ELECTRONIC MAIL & HARD COPY SUBMISSION

October 16, 2018

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Education
Energy Utility
Hospitality
Public Sector
Real Estate
Science & Technology
Healthcare

RE: **Former BICC Cables Site**
City of Yonkers, Westchester County, New York
United States Environmental Protection Agency (USEPA) Approval of Risk-Based Cleanup and Disposal of Polychlorinated Biphenyl Remediation Waste
OU-2 (DCU Area 2B) Multi-Layer Sediment Cover System (SCS)
2018 Periodic Review Report (PRR)

Dear Mr. Conetta:

Paulus, Sokolowski and Sartor Engineering PC (PS&S) was retained by Extell Hudson Waterfront, LLC (Extell) to prepare the attached 2018 Periodic Review Report (PRR) for the Former BICC Cables Site (hereinafter referred to as "the Site"). The Site is identified as New York State Department of Environmental Conservation (NYSDEC) Site No. C360051 and was remediated in accordance with the Brownfield Cleanup Agreement (BCA) Index # W3-1063-05-03.

As detailed in the USEPA Risk Based Approval, dated November 6, 2017 (RB Approval), annual reporting is required as part of the NYSDEC-approved Site Management Plan, dated April 14, 2017 (SMP), and as referenced in the Environmental Easement, which will run with the Site in perpetuity. An annual report (i.e., a PRR) is to be submitted to the United States Environmental Protection Agency (USEPA) Region 2 (and to NYSDEC) beginning one-year post Certificate of Completion (COC), which was issued by NYSDEC on August 18, 2017.

In accordance with the RB Approval, please find attached the 2018 PRR which was prepared for the August 18, 2017 to August 17, 2018 annual reporting period. The PRR contains the information as outlined in Sections 3 and 5 of the SMP, which includes an inspection of the OU-2 (DCU Area 2B) Multi-Layer Sediment Cover System (SCS).

Should you have any questions or require additional information, please call Scott Caporizzo at 914-226-3722 or me at 732-584-0437.

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Very truly yours,

Paulus, Sokolowski and Sartor Engineering, PC

Janos M. Szeman

Janos M. Szeman, P. E.
Vice President

Attachments: 2018 Periodic Review Report, dated October 16, 2018

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2018 PERIODIC REVIEW REPORT

-FOR-

Former BICC Cables Site

City of Yonkers, New York
NYSDEC Site No. C360051
BCA Index # W3-1063-05-03

Submitted by:

Extell Hudson Waterfront, LLC

525 East County Line Road, Suite 13
Lakewood, New Jersey 08701

October 16, 2018

Prepared by:

One Larkin Plaza, 2nd Floor
Yonkers, New York 10701

I, Janos M. Szeman, certify that I am currently a New York State licensed Professional Engineer as defined at 6 NYCRR Part 375-1.2(aj) and paragraph 1.3(b)47 and that this Remedial Investigation Report was prepared in accordance with applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

Date: **16 October 2018** *Signature:* Janos M. Szeman

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EXECUTIVE SUMMARY

Paulus, Sokolowski and Sartor Engineering, PC (PS&S) was retained by Extell Hudson Waterfront, LLC to prepare this 2018 Periodic Review Report (PRR) for the Former BICC Cables Site (hereinafter referred to as "the Site"). The Site is identified as New York State Department of Environmental Conservation (NYSDEC) Site No. C360051 and was remediated in accordance with the Brownfield Cleanup Agreement (BCA) Index # W3-1063-05-03.

As noted in the NYSDEC-approved Site Management Plan, dated April 14, 2017 (SMP), a PRR is to be submitted to NYSDEC and the United States Environmental Protection Agency (USEPA) annually beginning one-year post Certificate of Completion (COC), which was issued by NYSDEC on August 18, 2017. This PRR was prepared for the August 18, 2017 to August 17, 2018 annual reporting period.

The purpose of this 2018 PRR is to document on-going Site management activities associated with the Engineering and Institutional Controls (ECs/ICs) in place at the Site, and to certify that the ECs/ICs are being maintained in accordance with the SMP and the USEPA's Approval for Risk-Based Disposal of Polychlorinated Biphenyl Remediation Waste, dated November 6, 2017 (2017 RB Approval). This 2018 PRR includes documentation and an assessment of the Monitoring Plan results, Operation and Maintenance (O&M) Plan activities, and certification of ECs/ICs identified in the SMP. Site management activities conducted in this reporting period are summarized in Table 1 below (derived from Table 3.1.2.1 of the SMP).

Table 1: Media Monitoring/Inspection Schedule

Monitoring Program	Frequency	Matrix	Analysis	Completion Date
Groundwater	Semi-annual for minimum of two years	Water	Volatile Organic Compounds (VOCs) and Polychlorinated biphenyls (PCBs)	February 21, 2018 and August 7, 2018
Shoreline Stabilization Measures (Bulkheads and Revetment Stone)	Annual	Sediment and Soil	Visual observation and photo documentation	August 6, 2018
Current Pavement and Concrete Cover Systems (existing Upland Site-wide Cover System)	Annual	Soil	Visual observation and photo documentation	August 7, 2018
Perimeter Controls[1]	Annual	Site-wide	Visual observation and photo documentation	August 7, 2018
Underwater Multi-Layer Sediment Cover System for OU-2 (DCU Area 2B)	Annual Bathymetry and Annual SCS Remote Sensing Cable	Sediment	Visual observation, bathymetric survey, and SCS Remote Sensing Program on an Annual Basis with annual bathymetric surveys	August 7, 2018
Future Site Cover Systems	Annual	Soil	Visual observation and photo documentation	August 7, 2018

1. Table 3.1.2.1 of the SMP does not include Perimeter Controls, however, inspection of this control is required in the annual inspection forms provided in the SMP.

Based on the inspection/monitoring conducted during this reporting period in accordance with the procedures outlined in the SMP Monitoring Plan, PS&S finds the Site in compliance with the SMP IC/EC Plan, Monitoring Plan, and O&M Plan requirements. ICs/ECs at the Site are in place and functioning in accordance with the Environmental Easement and the 2017 RB Approval.

As noted in Section 4.2.1, off-site disposal of non-compliant imported fill material is planned in October 2018, and as noted in Section 6.1, groundwater monitoring well RMW-2 is scheduled to be replaced in kind prior to the next groundwater sampling event. Further, PS&S recommends that the IC/EC Certification Form be modified for future PRRs for consistency with the SMP, as detailed in Section 4.3 and reflected on the IC/EC Certification Form presented in Attachment A.

No other corrective measures are proposed and no changes to the SMP are recommended at this time.

1.0 INTRODUCTION

PS&S was retained by Extell Hudson Waterfront, LLC to prepare this 2018 Periodic Review Report (PRR) for the Former BICC Cables Site (hereinafter referred to as "the Site"). The Site is identified as New York State Department of Environmental Conservation (NYSDEC) Site No. C360051 and was remediated in accordance with the Brownfield Cleanup Agreement (BCA) Index # W3-1063-05-03.

This 2018 PRR was prepared for the August 18, 2017 to August 17, 2018 annual reporting period. This 2018 PRR includes documentation and an assessment of the Site Management Plan (SMP) Monitoring Plan results, details on necessary Operation and Maintenance (O&M), and certification of engineering and institutional controls (ECs/ICs) identified in the SMP.

This 2018 PRR was prepared in accordance with Section 6.3(b) of New York State Department of Environmental Conservation (NYSDEC) DER-10, *Technical Guidance for Site Investigation and Remediation*, dated May 3, 2010, the USEPA Approval for Risk-Based Disposal of Polychlorinated Biphenyl Remediation Waste, dated November 6, 2017 (2017 RB Approval), and the NYSDEC-approved SMP, dated April 14, 2017 (SMP) prepared by PS&S.

2.0 SITE BACKGROUND

This section provides general information obtained from the SMP on the setting of the Site. Also, a description of the land uses, the historical operations performed at the Site, an overview of the regional and local geology, and the hydrogeology of the Site are summarized below.

2.1 Site Location and Description

The Site is situated at One Point Street in the City of Yonkers, Westchester County, New York and is identified by the following City of Yonkers Tax Map Block/Lot numbers of Section 2: 2114/17, 2114/20-35, 2620/35, 2620/40, 2625/15, 2625/17, 2625/21, 2625/23, 2630/1, 2630/2, 2630/3, and 2630/10 (refer to Table 1.1.1 of the SMP).

The Site measures approximately 21.2 acres (approximately 15.8 acres of upland and 5.4 acres of underwater land). A majority of the upland area of the Site (approximately 14.6 acres) is bounded to the north and west by the Hudson River, to the south by a former plastic packaging manufacturing plant, and to the east by the Metro North railroad tracks, a Metropolitan Transportation Authority (MTA) bus depot facility and vacant land. This upland part of the Site is detailed in the SMP as three subdivided soil areas: South Yard, North Yard, and the Demolition/Below Building Area.

The Site also includes an upland area (approximately 1.2 acres) referred to in the SMP as the BICC Parking Lot which not contiguous with the upland Site area detailed above, but is separated from the rest of the Site by the Metro North railroad tracks. The BICC Parking Lot is bounded to the west by the Metro North railroad tracks, to the east by Ravine Avenue, to the north by Point Street, and the south by vacant property owned by the City of Yonkers.

The underwater land (the western part of the Site within the Hudson River) contains five Dredge Certification Unit (DCU) Areas: I through V, with DCU Area II was subdivided further into 2A, 2B, and 2C (as described in the SMP).

2.2 Geology and Hydrogeology

The Site is developed on historic fill of varying composition and thickness (up to 20 feet beneath the Site's cover system). The historic fill is underlain by native Hudson River Valley overburden which is composed of silts, clays, sands, and gravels with glacial, lacustrine, and marine origins. The underlying bedrock is of Grenville age (approximately 1 billion years ago) crystalline metamorphic rocks, consisting of Fordham Gneiss/Inwood Marble/Manhattan Formation.

The Site's groundwater table is tidally influenced and ranges in depth from 0.5 feet bgs to 13.5 feet bgs with a southwesterly direction of flow towards the Hudson River.

2.3 Historical and Current Land Use and Ownership

An early industrial proprietor of the Site was S.S. Hepworth & Company, a sugar machinery and tools manufacturer, which occupied the Site from 1886 to 1890. From 1890 to 1915, the India Rubber Percha Insulating Company, a wire and cable manufacturer, operated at the Site, followed by the Habirshaw Wire Company from 1915 to 1930. Habirshaw fabricated paper-insulated, lead-jacketed cables, rubber-insulated and jacketed cables, and armored submarine cables at the facility until 1930, when it was acquired by Phelps Dodge. Phelps Dodge continued manufacturing cables in a similar process at the Site.

During the 1960s, production of the rubber-insulated/jacketed cables and armored submarine cables at the Site was discontinued in favor of cables insulated with polyethylene and ethylene propylene rubber that included the use of highly refined rosins and later refined hydrocarbon oils (e.g., PCBs) as the dielectric fluids to replace the rosins.

Phelps Dodge's ownership lasted until 1984, when the property was acquired by Cablec, which later merged with the BICC Cables Corporation. Cablec/BICC Cables Corporation continued manufacturing Phelps Dodge products until 1996 which then ceased due to declining demand for paper-insulated, lead-jacketed cables.

On October 14, 1998, this Site, previously referred to as the former BICC Cables Corporation Site, was listed on the Registry of Inactive Hazardous Waste Disposal Sites as a Class 2 Superfund Site. BICC Cables Corporation entered into an Administrative Order on Consent (AOC) with NYSDEC on March 17, 2000, to conduct a Remedial Investigation/Feasibility Study (RI/FS). The RI/FS was completed and a Record of Decision (ROD) documenting the selected remedial actions for the Site was issued by NYSDEC in March 2005.

In May 2005, One Point Street. Inc. (OPSI) entered into a Brownfield Cleanup Agreement (BCA) with NYSDEC as a Volunteer under the Brownfield Cleanup Program (BCP) to investigate and remediate the Site. In July 2014, NYSDEC issued a second ROD (OU-2 ROD) to address the Site remedy for DCU Area 2B, defined as Operable Unit # 2 (OU-2). The OU-2 ROD defines the balance of the Site (all upland areas, and all underwater land areas of the Site other than DCU Area 2B) as Operable Unit #1 (OU-1). The OU-2 ROD established the remedial requirements for DCU Area 2B, which is the Site's underwater land located under the northeast corner of the EPRI Building. In addition to the OU-2 ROD, the DCU Area 2B was remediated in accordance with the USEPA's Approval for Risk-Based Disposal of Polychlorinated Biphenyl Remediation Waste, dated September 15, 2015 (2015 RB Approval), which also contained conditions for post-remedial monitoring and compliance with the Environmental Easement. The post-remedial obligations of the 2015 RB Approval are now set forth in and required pursuant to the 2017 RB Approval that replaced the 2015 RB Approval.

The Site was remediated in several phases by OPSI (with NYSDEC oversight) between 2005 and 2016. The Site received its Certificate of Completion (COC) from NYSDEC on August 17, 2017. The Site's current environmental conditions are further detailed in Section 3.0 below.

As summarized in Table 2.3 below, the Site is currently subdivided into 12 City of Yonkers parcels. Extell Hudson Waterfront, LLC purchased the Site parcels west of the Metro North railroad tracks from OPSI on September 29, 2017 and remains the owner of these 12 parcels. This part of the Site has been used (from 2017 to present) for school bus and car valet parking services. OPSI maintains ownership of the Site parcels east of the Metro North railroad track (i.e., the BICC Parking Lot), which is vacant.

Table 2: Site Ownership by Parcel

Address	City of Yonkers Parcel (Section, Block, and Lot)	Ownership
35 Babcock Place	*2-2620-35*	*Extell Hudson Waterfront, LLC*
39 Water Grant	*2-2620-40*	*Extell Hudson Waterfront, LLC*
39-B Water Grant	*2-2625-15*	*Extell Hudson Waterfront, LLC*
40 Water Grant	*2-2625-17*	*Extell Hudson Waterfront, LLC*
41 Water Grant	*2-2625-21*	*Extell Hudson Waterfront, LLC*
41-B Water Grant	*2-2625-23*	*Extell Hudson Waterfront, LLC*
41- Rear Water Grant	*2-2630-10*	*Extell Hudson Waterfront, LLC*
42 Water Grant	*2-2630-1*	*Extell Hudson Waterfront, LLC*
42-A Water Grant	*2-2630-2*	*Extell Hudson Waterfront, LLC*
42-B Water Grant	*2-2630-3*	*Extell Hudson Waterfront, LLC*
76 Point Street	*2-2114-17*	*One Point Street. Inc.*
60 Point Street	*2-2114-20 to 35*	*One Point Street. Inc.*

2.4 Anticipated Future Land Use

Current and future Site use requires compliance with the Environmental Easement, the SMP, and the 2017 RB Approval, in perpetuity or until the Environmental Easement (granted to NYSDEC and recorded with the Westchester County Clerk) is extinguished in accordance with the current version of the New York Environmental Conservation Law (ECL) Article 71, Title 36 (Section 71-3605, Environmental Easements).

The Environmental Easement allows for future restricted residential, commercial or industrial uses at the Site, as defined in 6 NYCRR Part 375-1.8. The part of the Site west of the Metro North railroad tracks is also located within the City of Yonkers Alexander Street Urban Renewal Area and is subject to the City of Yonkers Alexander Street Master Plan, approved by City of Yonkers Counsel in May 2009.

Anticipated future land use of the part of the Site west of the Metro North railroad tracks (currently owned by Extell Hudson Waterfront, LLC) is mixed restricted-residential and commercial development, with public open space, including public access to the waterfront. The future land use of the part of the Site east of the Metro North railroad tracks (currently owned by OPSI) is under evaluation.

3.0 CURRENT ENVIRONMENTAL CONDITIONS

The current environmental conditions are managed in accordance with the SMP, dated April 14, 2017. As detailed in the SMP, ECs/ICs are installed/implemented at the Site to protect human health and the environment by controlling exposure to remaining contamination (defined in Section 3.1) during redevelopment and future Site use. Compliance with the Environmental Easement, the SMP and implementation of the requirements set forth in the 2017 RB Approval is required in perpetuity or until the Environmental Easement is extinguished. Proper implementation, management and certification of these ECs/ICs is defined in the SMP and the 2017 RB Approval.

3.1 Remaining Contamination

As noted in the SMP, contamination remains on-site in upland soils in the South Yard, North Yard, and the Demolition/Below Building; and in the Site's underwater sediments in DCU Area 2B (located under the EPRI Building). The remaining contamination in both upland soils and DCU Area 2B underwater sediments consists most predominantly of PCBs and lead at levels exceeding restricted-residential use Soil Cleanup Objectives (SCOs) as defined in the SMP. In addition, on-Site groundwater contamination predominantly consisting of VOCs exceeding Effluent Groundwater Limitations (Class GA) is present as a result of an upgradient source.

Exposure to remaining contamination at the Site is controlled by ECs/ICs summarized in Section 5.0 of this PRR.

4.0 ENGINEERING & INSTITUTIONAL CONTROLS PLAN COMPLIANCE REPORT

The Engineering and Institutional Control Plan and Compliance Report below provides a description of each EC/IC, its objective, and how performance of the control is evaluated. The IC/EC Certification is discussed in Section 4.3 and is included in Appendix A of this 2018 PRR.

4.1 Engineering Controls

A description of each EC, its objective, and how performance of the EC is evaluated is summarized in Sections 4.1.1 through 4.1.6.

4.1.1 Upland Site-wide Cover System

Exposure to remaining contamination in upland soils (located in the South Yard, North Yard, and the Demolition/Below Building) is prevented by cover system components which consist of either the 6-Inch-Thick Asphalt Pavement Cover System, the 6-Inch-Thick Concrete Cover System, or the 12-Inch-Thick Asphalt Pavement Cover System (together referred to as the "Upland Site-wide Cover System"). The Upland Site-wide Cover System is a permanent control and the quality and integrity of this system will be inspected at annual intervals (or in the event of an emergency, such as a hurricane, storm, or other event, causing severe conditions that might adversely impact this control) in perpetuity unless the future Site development includes excavation activities that remove the residual contamination, or as otherwise approved by NYSDEC.

As specified in this SMP, if imported fill material or other materials replace components of the current Upland Site-wide Cover System, or are placed above the existing Upland Site-wide Cover System during development (e.g., new building foundations, constructed in accordance with the SMP), future Site inspections would then focus on the integrity and performance of such NYSDEC-approved Upland Site-wide Cover System components to confirm that the ECs are functioning as designed.

The Upland Site-wide Cover System may also be replaced during the development of the Site with cover system components of equivalent integrity, in accordance with the SMP. As new permanent Site development Upland Site-wide Cover System components are constructed, the SMP will require modifications to document these changes.

4.1.2 Shoreline Stabilization Measures (Bulkhead and Revetment Stone)

A combination of composite/steel bulkhead systems and revetment stone are present to contain Site historical fill material on the upland part of the Site and prevent erosion of fill into the Hudson River. Bulkhead/Revetment Stone are

permanent controls and the quality and integrity of this system will be inspected at annual intervals (and in the event of an emergency, such as a hurricane, major SMP defined storm(s), or other event, causing severe conditions that might adversely impact this control) in perpetuity unless the future Site development includes excavation activities that remove the residual upland contamination.

4.1.3 Underwater Multi-Layer Sediment Cover System for OU-2 (DCU Area 2B)

A Multi-Layer Sediment Cover System (Multi-Layer SCS) controls exposure to remaining contamination in the Site's underwater sediments located in DCU Area 2B (located under the EPRI Building). The Multi-Layer SCS consists of the following five key components: Cushion Layer, Active Treatment and Containment Layer, Ballast Layer, Armor Protection Layer, and Habitat Mitigation Layer. The Multi-Layer SCS also has a fiber optic remote sensing component to monitor the top of the Multi-Layer SCS and to assess the long-term integrity of the Multi-Layer SCS. The Multi-Layer SCS is expected to remain in place in perpetuity and will be inspected at annual intervals (and in the event of an emergency, such as a hurricane, storm, or other event causing severe conditions that might adversely impact this control).

4.1.4 Perimeter Controls

Site access to the upland part of the Site west of the Metro North railroad tracks is controlled by an 8-foot-tall chain link fence on the northern, eastern, and southern perimeter of the Site. Along the western perimeter, and a part of the northern perimeter, the BICC Site is protected by a natural barrier, the Hudson River. Site access to the upland part of the Site east of the Metro North railroad tracks (i.e., the BICC Parking Lot) is controlled by perimeter fencing to the north, south, east, and west.

The Site's perimeter fencing control may be removed as the Site is developed and the Upland Site-wide Cover System is replaced by new, publicly accessible Site development components, constructed with concrete, asphalt and soil development cover system, in accordance with the SMP.

4.1.5 Groundwater Monitoring Program

Semi-annual groundwater monitoring will be required from five wells that have been installed on the Site for a minimum of two years after the date of the COC to monitor post-remedial groundwater concentrations. The wells must be protected and replaced as necessary to confirm that the groundwater wells function in the manner specified in the SMP. Whether additional groundwater monitoring will be required beyond two years will be based on the results of the first two years of sampling, as further detailed in the SMP.

4.1.6 Vapor Mitigation Study and/or Systems

The need for a vapor mitigation system (VMS) must be evaluated in connection with construction of any buildings on the Site. If the need for such a system is indicated, a VMS must be designed, submitted to and approved by the NYSDEC and the New York State Department of Health (NYSDOH), constructed and operated in accordance with the NYSDEC DER regulatory requirements and guidance documents, and NYSDOH Vapor Guidance Document in place at that time.

4.2 Institutional Controls

A series of Institutional Controls is required by the 2005 ROD and 2014 OU-2 ROD in order to:

1. Implement, maintain and monitor EC systems;
2. Prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and
3. Limit the use and development of the Site to restricted residential, commercial, or industrial uses only.

Adherence to the following ICs is required by the Environmental Easement and will be implemented in accordance with the Site Management Plan:

1. The Grantor and the Grantor's successors and assigns must comply with the Environmental Easement and the SMP;
2. All ECs must be operated and maintained as specified in the SMP;
3. All ICs and ECs on the Controlled Property (the Site) must be inspected and certified on, at a minimum, an annual basis, or at a frequency and in a manner defined in the SMP if more frequent, in accordance with Part 375-1.8(h)(3);
4. Groundwater and other environmental or public health monitoring must be conducted as defined in this SMP;
5. Data and information pertinent to Site Management for the Controlled Property must be reported in the manner and at the frequency defined in the SMP;
6. On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells as detailed in Section 3.3 of the SMP, must be protected and replaced as necessary to confirm that the groundwater devices function in the manner specified in the SMP;
7. The use and development of the Controlled Property is limited to restricted residential, commercial and industrial uses as defined by Part 375-1.8(g), subject to local zoning laws;
8. The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Westchester County

Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the NYSDEC;

9. Future activities on the Site that will disturb remaining contaminated material must be conducted in accordance with the SMP;
10. Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;
11. Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy will be performed as defined in the SMP;
12. Access to the Site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement;
13. USEPA, its agents, employees, or other authorized representatives may enter the OU-2 Area, and any other location where non-privileged records are stored related to the OU-2 Area, at reasonable times for any purpose authorized by Section 11 of TSCA, 15 U.S.C. §2610;
14. The Controlled Property will not be used for raising livestock or producing animal products for human consumption, and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement;
15. Vegetable gardens and all forms of farming (including dairy and livestock) on the Site property are prohibited unless within the top 2 feet of clean soil cover or above;
16. The potential for vapor intrusion must be evaluated for any buildings developed on the Site in the vapor intrusion area, and any potential impacts that are identified must be mitigated; and
17. ICs identified in the Environmental Easement may not be discontinued without the Environmental Easement being amended or extinguished.

4.2.1 Excavation Work Plan

The SMP requires that excavation work that will extend through the cover systems or encounter or disturb the remaining contamination, including any modifications or repairs to the existing cover systems, and import of fill to the Site, must be carried out in compliance with the Excavation Work Plan (EWP).

Documentation retained as part of Excavation Work Plan compliance (e.g., Community Air Monitoring Plan (CAMP) data, NYSDEC-approved import material quantities/bills of lading, disposal quantities and associated facility acceptance letters and waste characterization data) must be provided to NYSDEC in the PRR.

During this 2018 PRR reporting period, no intrusive activity beneath the cover systems occurred, however, material import activities occurred as discussed below.

As previously documented with NYSDEC between 2015 and 2018, fill material was delivered and placed at the Site above the Upland Site-wide Cover System and additional fill was placed during this 2018 PRR reporting period; source location(s) documentation had not been submitted to NYSDEC for review and approval prior to import to the Site. After consultation with NYSDEC, in March 2018, PS&S conducted a topographic survey of the observed limits of fill at the Site above the Upland Site-wide Cover System, as shown in Attachment C. This March 2018 topographic survey was used to estimate the approximate amount of fill placed at the Site above the Upland Site-wide Cover System by comparing current topographic conditions to the Site's topographic mapping prepared by Ward Carpenter in December 2011 (i.e., prior to fill operations above the asphalt pavement cover system). Based on a comparison of the two surveys, it was estimated an approximate 43,000 cubic yard volume differential exists between the two topographic surfaces.

Following NYSDEC approval of the Existing Fill Sampling Work Plan, dated April 13, 2018, PS&S performed characterization sampling of the estimated 43,000 cubic yards of imported fill materials placed at the Site above the Upland Site-wide Cover System. Based on the results, the majority of fill material was observed to be in compliance with "Backfill from Off-Site Sources" criteria, detailed in Section A-10 of the EWP, with the exception of approximately 25 cubic yards (representative of an area near sample TP-20) identified as non-compliant imported fill material. Documentation related to these activities was previously submitted to NYSDEC and is attached to this 2018 PRR as Appendix F.

The off-site disposal of the non-compliant materials is planned to occur in October 2018 in accordance with EWP protocol and will be documented in the subsequent 2019 PRR.

4.2.2 Esplanade Development

As detailed in the SMP, a future esplanade is planned in association with the future redevelopment of the Site. In the event future work in the underwater land will impact the Multi-Layer SCS, the work must be coordinated with the NYSDEC Project Manager.

No Site activities that would trigger the requirements of the Esplanade Development have occurred during this reporting period.

4.2.3 DCU Area IV-N and Area II 2A2

As detailed in the SMP, replacement of the building slab that was previously over DCU Area IV-N and a part of DCU Area II (denominated as Area II-2A2) together

with the installation of supporting piles and/or replacement of existing piles may be undertaken during redevelopment. Work in these designated areas must be completed in accordance with the requirements SMP.

No Site activities that would trigger the requirements of these areas occurred during this reporting period.

4.3 Engineering and Institutional Control Compliance and Certification

An engineering assessment and certification of Site ECs/ICs detail above is required to certify the IC/ECs. As required, a Professional Engineer licensed to practice in New York State, has prepared and signed the NYSDEC PRR IC/EC Certification Form, which was provided by NYSDEC as Enclosure 2 within the Reminder Notice: Site Management PRR and IC/EC Certification Submittal Letter, dated July 23, 2018 (Reminder Notice Letter). A copy of the Reminder Notice and the completed IC/EC Certification Form is provided as Appendix A.

As discussed with the NYSDEC Project Manager (Mr. Matthew Hubicki) on September 12, 2018, PS&S identified inconsistencies between the SMP, the Reminder Notice Letter, and the IC/EC Certification Form. The inconsistencies and recommendations are noted below:

1. PRR Deadline: The PRR deadline was stated in the Reminder Notice Letter to be January 17, 2019. The SMP states that the first PRR would be due in October 2018. As discussed with NYSDEC, PS&S recommends that NYSDEC update the due date in their system for consistency with the October 2018 due date noted in the SMP and the COC.

2. IC/EC Certification Form: The IC/EC Certification Form (provided as Enclosure 2 of the Reminder Notice Letter) identified ECs that are not in concurrence with SMP and include the following two items.
    a. As noted in the SMP, the BICC Parking Lot did not require remedial action and therefore no Upland Site-wide Cover System coverage is required for that part of the Site. Further, the BICC Parking Lot inspection form (provided in Attachment 12 of the SMP) only note inspection of the Fencing/Access Control and Monitoring Well (RMW-5) ECs as a requirement. This is inconsistent with the IC/EC Certification Form received with the Reminder Notice Letter which identifies “Cover System” as a listed EC for the parcels associated with the BICC Parking Lot.
        i. PS&S recommends that “Cover System” be removed from the IC/EC Certification Form as a listed EC for the parcels associated with the BICC Parking Lot.

b. Vapor Mitigation is listed as an EC for parcel 2-2114-29 in the IC/EC Certification Form. The SMP requires that the potential for vapor intrusion be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated through installed vapor mitigation ECs. At this time; however, no buildings exist on Site, and therefore there are no vapor mitigation system ECs in place at the Site.
    i. PS&S recommends that the IC/EC Certification Form is modified accordingly.

To comply with the October 2018 deadline, NYSDEC has instructed PS&S to use the EC/IC forms included in Reminder Notice Letter, dated July 23, 2018, and to complete the inspection forms in the SMP as written. PS&S recommends that the modifications to IC/EC Certification Form detailed above (and reflected on the IC/EC Certification Form included in Appendix A) be adopted for future PRR inspections.

5.0 MONITORING PLAN COMPLIANCE REPORT

This SMP Monitoring Plan describes the procedures for evaluating the performance and effectiveness of the Site's implemented ICs/ECs (detailed above). The SMP Monitoring Plan also provided details for preparing the necessary reports for the various monitoring/inspection activities. In accordance with the SMP Monitoring Plan, PS&S performed the required inspection and monitoring activities for the August 18, 2017 to August 17, 2018 annual reporting period on the dates and as summarized in Table 1 below (derived from Table 3.1.2.1 of the SMP).

Table 1: Media Monitoring/Inspection Schedule

Monitoring Program	Frequency	Matrix	Analysis	Completion Date
Groundwater	Semi-annual for minimum of two years	Water	Volatile Organic Compounds (VOCs) and Polychlorinated biphenyls (PCBs)	February 21, 2018 and August 7, 2018
Shoreline Stabilization Measures (Bulkheads and Revetment Stone)	Annual	Sediment and Soil	Visual observation and photo documentation	August 6, 2018
Current Pavement and Concrete Cover Systems (existing Upland Site-wide Cover System)	Annual	Soil	Visual observation and photo documentation	August 7, 2018
Perimeter Controls[1]	Annual	Site-wide	Visual observation and photo documentation	August 7, 2018
Underwater Multi-Layer Sediment Cover System for OU-2 (DCU Area 2B)	Annual Bathymetry and Annual SCS Remote Sensing Cable	Sediment	Visual observation, bathymetric survey, and SCS Remote Sensing Program on an Annual Basis with annual bathymetric surveys	August 7, 2018
Future Site Cover Systems	Annual	Soil	Visual observation and photo documentation	August 7, 2018

4. Table 3.1.2.1 of the SMP does not include Perimeter Controls, however, inspection of this control is required in the annual inspection forms provided in the SMP.

5.1 Site-Wide Comprehensive Inspection

A Site-wide comprehensive inspection was conducted by PS&S between August 6, 2018 and August 7, 2018 to visually evaluate the performance and effectiveness of the Groundwater Monitoring Wells, Shoreline Stabilization Measures, Upland Site-wide Cover System, Perimeter Controls, the Underwater Multi-Layer SCS, and the condition of NYSDEC-approved fill materials imported and placed above the Upland Site-wide Cover System, that will be incorporated into the Upland Site-wide Cover System during Site development (i.e., Future Site Cover Systems). Site-wide inspection forms (derived from Appendix 7 and Appendix 12 of the SMP) and photographs are included in Appendix B.

During the Site-wide comprehensive inspection, PS&S observed and documented several areas where the Upland Site-wide Cover System was found to have eroded or been

damaged (e.g., sinkholes and potholes). Maintenance/repairs to the Upland Site-wide Cover System are further discussed in Section 6.0.

In addition, PS&S observed on August 6, 2018 that the Northwest Bulkhead timber boardwalk cap remains damaged (e.g., ripping and splintering) by the March 2, 2018 Emergency Event, previously documented with NYSDEC on March 5, 2018. On August 6, 2018, PS&S further inspected the Northwest Bulkhead steel sheet piles and associated tie back rod bolts and concluded that the damaged timber boardwalk cap has not impacted the structural integrity of the Northwest Bulkhead. The Northwest Bulkhead was observed to be in good condition and continues to adequately perform as the waterfront stabilization measure EC. The adjacent Asphalt Pavement Cover System EC was also observed in stable condition. Photographs are provided in Appendix B.

5.2 Multi-Layer SCS Fiber Optic Remote Sensing Program and Bathymetric Survey

An analysis of the fiber optic remote sensing component of the Multi-Layer SCS (as further detailed in Appendix 16 of the SMP and in the 2017 RB Approval) was conducted by SmarTec on August 7, 2018. PS&S also conducted a bathymetric survey of the Multi-Layer SCS on August 7, 2018 in accordance with the SMP and 2017 RP Approval inspection requirements. SmarTec DiTeSt (fiber optic) Measurement Results and bathymetric survey results are provided as Appendix C.

5.3 Groundwater Monitoring Program

Semi-annual groundwater monitoring was also completed by PS&S during this reporting period on February 21, 2018 (1st round) and August 7, 2018 (2nd round). The results of the Groundwater Monitoring Program activities are provided as Appendix D. PCBs were not detected above NY TOGS GA in any of the groundwater samples collected during both the 1st and 2nd round of sampling. Tetrachloroethene was the only volatile organic compound (VOC) detected in both the 1st and 2nd rounds and was only detected in RMW-1. Tetrachloroethene was detected at 6.1 ug/L in the 1st round and at 12 ug/L in the 2nd round, both of which are above the NY TOGS GA of 5 ug/L. PS&S will utilize the next round of semi-annual groundwater sampling (scheduled for February 2019) to better evaluate the trend of Tetrachloroethene concentrations in RMW-1.

Based on an evaluation of the Inspection/Monitoring Program results detailed above, PS&S concludes that the Site's implemented ICs/ECs remain effective in protecting public health and the environment from remaining contamination.

6.0 OPERATION AND MAINTENANCE (O&M) COMPLIANCE REPORT

This SMP O&M Plan describes the procedures for operating mechanical components and maintaining the integrity of the Site's ICs/ECs. Please note the Site does not currently rely on the operation of any mechanical systems, therefore, this section pertains solely to maintenance performed on ECs during this reporting period.

6.1 RMW-2 Groundwater Monitoring Well Replacement

As discussed in the Semi-annual Groundwater Monitoring Results Reports (provided in Appendix B), one of the five SMP groundwater monitoring wells (RMW-2) was not sampled during either semi-annual 2018 sampling event due to an obstruction in the well at approximately nine feet below the top of the newly installed PVC riser. As noted in the Groundwater Monitoring Results Reports (Appendix D), RMW-2 will be decommissioned, replaced in kind, and sampled during the next reporting period (August 18, 2018 to August 17, 2019), in accordance with SMP protocol and will be documented in the subsequent 2019 PRR.

6.2 Upland Site-wide Cover System Repairs

During the Site-wide comprehensive inspection, PS&S observed and documented several areas where the Upland Site-wide Cover System was found to have eroded or been damaged (e.g., sinkholes and potholes). Maintenance/repairs to the Upland Site-wide Cover System were performed on September 14, 2018 by Precise Contracting in accordance with the SMP. Upland Site-wide Cover System maintenance/repair documentation (i.e., before/after photographic log) is provided as Appendix E.

Other than the replacement in kind of monitoring well RMW-2, there are no other maintenance/repairs actions due or recommended at the time of this PRR.

7.0 CONCLUSIONS

This PRR was developed in accordance with Section 6.3(b) of New York State Department of Environmental Conservation (NYSDEC) DER-10, *Technical Guidance for Site Investigation and Remediation,* dated May 3, 2010, and the SMP dated April 14, 2017.

Based on the inspection/monitoring conducted during this reporting period pursuant to the procedures outlined in the SMP Monitoring Plan, PS&S finds the Site in compliance with the SMP IC/EC Plan, Monitoring Plan, and O&M Plan requirements. ICs/ECs at the Site are in place and functioning in accordance with the Environmental Easement and the 2017 RB Approval.

As noted in Section 4.2.1, off-site disposal of non-compliant imported fill material is planned in October 2018, and as noted in Section 6.1 above, groundwater monitoring well RMW-2 is scheduled to be replaced in kind prior to the next groundwater sampling event. Further, PS&S recommends that the IC/EC Certification Form is modified for future PRRs for consistency with the SMP as detailed in Section 4.3.

No other corrective measures are proposed and no changes to the SMP are recommended at this time.

APPENDICES

LIST OF APPENDICES

Appendix A – Institutional and Engineering Controls Certification Form
Appendix B – Site-Wide Inspection Forms and Photographs
Appendix C – Multi-Layer SCS Fiber Optic Measurement and Bathymetric Survey Results
Appendix D – Semi-Annual Groundwater Monitoring Results Reports
Appendix E – Operation and Maintenance Documentation
Appendix F - Excavation Work Plan Documentation

APPENDIX A

Institutional and Engineering Controls Certification Form

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation
625 Broadway, 11th Floor, Albany, NY 12233-7020
P: (518)402-9543 | F: (518)402-9547
www.dec.ny.gov

7/23/2018

Abba Barnett
Extell Hudson Waterfront LLC
c/o Extell Development Company
805 Third Avenue 7th Floor
New York, NY 10022

Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal
Site Name: BICC Cables
Site No.: C360051
Site Address: 1 Point Street
Yonkers, NY 10701

Dear Abba Barnett:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of, and compliance with, site specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at http://www.dec.ny.gov/regulations/67386.html) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than **January 17, 2019**. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. The Engineering Controls (ECs) portion of the form (Box 7) must be signed by a Qualified Environmental Professional (QEP). If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed and all required controls are certified. Instructions for completing the certifications are enclosed.


NEW YORK
STATE OF
OPPORTUNITY
Department of
Environmental
Conservation

All site-related documents and data, including the PRR, are to be submitted in electronic format to the Department of Environmental Conservation. The Department will not approve the PRR unless all documents and data generated in support of that report have been submitted in accordance with the electronic submissions protocol. In addition, the certification forms are required to be submitted in both paper and electronic formats.

Information on the format of the data submissions can be found at:
http://www.dec.ny.gov/regulations/2586.html

The signed certification forms should be sent to Matthew Hubicki, Project Manager, at the following address:

New York State Department of Environmental Conservation
Division of Environmental Remediation, BURC
625 Broadway
Albany, NY 12233-7014

Phone number: 518-402-9605. E-mail: matthew.hubicki@dec.ny.gov

The contact information above is also provided so that you may notify the project manager about upcoming inspections, or for any other questions or concerns that may arise in regard to the site.

Enclosures

PRR General Guidance
Certification Form Instructions
Certification Forms

One Point Street, Inc.
734-6 Broadway Mezz LLC

ec: w/ enclosures
Matthew Hubicki, Project Manager
David Crosby, Section Chief
Anand Patel, Hazarouds Waste Remediation Engineer, Region 3

Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7**):**

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.

- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **C360051**

Site Name **BICC Cables**

Site Address: 1 Point Street Zip Code: 10701
City/Town: Yonkers
County: Westchester
Site Acreage: 21.2

Reporting Period: August 18, 2017 to ~~December~~ 18, 2018

August

	YES	NO
1. Is the information above correct? See notes in red above. If NO, include handwritten above or on a separate sheet.		X
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	X	
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		X

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

	YES	NO
5. Is the site currently undergoing development?	X	

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	X	
7. Are all ICs/ECs in place and functioning as designed?	X	

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative Date

	Box 2A	
	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?		X
If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.		
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	X	
If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.		

SITE NO. C360051	**Box 3**
Description of Institutional Controls	

Parcel	Owner	Institutional Control
2-2114-17	One Point Street, Inc.	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

Allow the use and development of the controlled property for restricted residential, commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be reported at the frequency and in a manner defined in this SMP;

On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells and soil vapor probes as well as the required annual OU-2 Area SCS monitoring and reporting program, must be protected and replaced as necessary to confirm that the ECs continue to function in the manner specified in this SMP;

All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Soil Management Plan (Soil MP) part of the Excavation Work Plan (refer to SMP Attachment 13,) for any soils excavated in accordance with Section 2.3 of this SMP;

Any breach of the upland area Site cover system(s), including for purposes of construction or utilities work, must be replaced or repaired according to the Excavation Work Plan. Site soil excavated and removed from the Site must be managed, characterized, and properly disposed of in accordance with the NYSDEC regulations and directives and Excavation Work Plan. Guidelines
for management of subsurface soils/fill and long-term maintenance of the upland area Site cover systems are provided in the Excavation Work Plan (refer to SMP Attachment 13);

Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

Vegetable gardens and farming on the property are prohibited unless within
the top 2 feet of clean Soil Cover System or above;

The Site shall not be used for raising livestock or producing animal products
for human consumption;

The ECs may not be discontinued without an amendment or extinguishment of the Environmental Easement;

The Site owner or remedial party will submit to NYSDEC a written statement that certifies on an annual basis, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;

NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2-2114-20 One Point Street, Inc.

Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Ground Water Use Restriction

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

Allow the use and development of the controlled property for restricted residential, commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be reported at the frequency and in a manner defined in this SMP;

On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells and soil vapor probes as well as the required annual OU-2 Area SCS monitoring and reporting program, must be protected and replaced as necessary to confirm that the ECs continue to function in the manner specified in this SMP;

All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Soil Management Plan (Soil MP) part of the Excavation Work Plan (refer to SMP Attachment 13,) for any soils excavated in accordance with Section 2.3 of this SMP;

Any breach of the upland area Site cover system(s), including for purposes of construction or utilities work, must be replaced or repaired according to the Excavation Work Plan. Site soil excavated and removed from the Site must be managed, characterized, and properly disposed of in accordance with the NYSDEC regulations and directives and Excavation Work Plan. Guidelines

for management of subsurface soils/fill and long-term maintenance of the upland area Site cover systems are provided in the Excavation Work Plan (refer to SMP Attachment 13);

Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

Vegetable gardens and farming on the property are prohibited unless within the top 2 feet of clean Soil Cover System or above;

The Site shall not be used for raising livestock or producing animal products for human consumption;

The ECs may not be discontinued without an amendment or extinguishment of the Environmental Easement;

The Site owner or remedial party will submit to NYSDEC a written statement that certifies on an annual basis, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;

NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2-2114-21 One Point Street, Inc.

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

Allow the use and development of the controlled property for restricted residential, commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be reported at the frequency and in a manner defined in this SMP;

On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells and

soil vapor probes as well as the required annual OU-2 Area SCS monitoring and reporting program, must be protected and replaced as necessary to confirm that the ECs continue to function in the manner specified in this SMP;

All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Soil Management Plan (Soil MP) part of the Excavation Work Plan (refer to SMP Attachment 13,) for any soils excavated in accordance with Section 2.3 of this SMP;

Any breach of the upland area Site cover system(s), including for purposes of construction or utilities work, must be replaced or repaired according to the Excavation Work Plan. Site soil excavated and removed from the Site must be managed, characterized, and properly disposed of in accordance with the NYSDEC regulations and directives and Excavation Work Plan. Guidelines
for management of subsurface soils/fill and long-term maintenance of the upland area Site cover systems are provided in the Excavation Work Plan (refer to SMP Attachment 13);

Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

Vegetable gardens and farming on the property are prohibited unless within
the top 2 feet of clean Soil Cover System or above;

The Site shall not be used for raising livestock or producing animal products
for human consumption;

The ECs may not be discontinued without an amendment or extinguishment
of the Environmental Easement;

The Site owner or remedial party will submit to NYSDEC a written statement that certifies on an annual basis, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;

NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2-2114-22 One Point Street, Inc.

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

Allow the use and development of the controlled property for restricted residential, commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be reported at the frequency and in a manner defined in this SMP;

On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells and soil vapor probes as well as the required annual OU-2 Area SCS monitoring and reporting program, must be protected and replaced as necessary to confirm that the ECs continue to function in the manner specified in this SMP;

All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Soil Management Plan (Soil MP) part of the Excavation Work Plan (refer to SMP Attachment 13,) for any soils excavated in accordance with Section 2.3 of this SMP;

Any breach of the upland area Site cover system(s), including for purposes of construction or utilities work, must be replaced or repaired according to the Excavation Work Plan. Site soil excavated and removed from the Site must be managed, characterized, and properly disposed of in accordance with the NYSDEC regulations and directives and Excavation Work Plan. Guidelines
for management of subsurface soils/fill and long-term maintenance of the upland area Site cover systems are provided in the Excavation Work Plan (refer to SMP Attachment 13);

Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

Vegetable gardens and farming on the property are prohibited unless within
the top 2 feet of clean Soil Cover System or above;

The Site shall not be used for raising livestock or producing animal products
for human consumption;

The ECs may not be discontinued without an amendment or extinguishment
of the Environmental Easement;

The Site owner or remedial party will submit to NYSDEC a written statement that certifies on an annual basis, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;

NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

Allow the use and development of the controlled property for restricted residential, commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be reported at the frequency and in a manner defined in this SMP;

On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells and soil vapor probes as well as the required annual OU-2 Area SCS monitoring and reporting program, must be protected and replaced as necessary to confirm that the ECs continue to function in the manner specified in this SMP;

All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Soil Management Plan (Soil MP) part of the Excavation Work Plan (refer to SMP Attachment 13,) for any soils excavated in accordance with Section 2.3 of this SMP;

Any breach of the upland area Site cover system(s), including for purposes of construction or utilities work, must be replaced or repaired according to the Excavation Work Plan. Site soil excavated and removed from the Site must be managed, characterized, and properly disposed of in accordance with the NYSDEC regulations and directives and Excavation Work Plan. Guidelines
for management of subsurface soils/fill and long-term maintenance of the upland area Site cover systems are provided in the Excavation Work Plan (refer to SMP Attachment 13);

Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

Vegetable gardens and farming on the property are prohibited unless within
the top 2 feet of clean Soil Cover System or above;

The Site shall not be used for raising livestock or producing animal products
for human consumption;

The ECs may not be discontinued without an amendment or extinguishment
of the Environmental Easement;

The Site owner or remedial party will submit to NYSDEC a written statement that certifies on an annual basis, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;

NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2-2114-24 One Point Street, Inc.

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

Allow the use and development of the controlled property for restricted residential, commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be reported at the frequency and in a manner defined in this SMP;

On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells and soil vapor probes as well as the required annual OU-2 Area SCS monitoring and reporting program, must be protected and replaced as necessary to confirm that the ECs continue to function in the manner specified in this SMP;

All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Soil Management Plan (Soil MP) part of the Excavation Work Plan (refer to SMP Attachment 13,) for any soils excavated in accordance with Section 2.3 of this SMP;

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for management of subsurface soils/fill and long-term maintenance of the upland area Site cover systems are provided in the Excavation Work Plan (refer to SMP Attachment 13);

Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

Vegetable gardens and farming on the property are prohibited unless within
the top 2 feet of clean Soil Cover System or above;

The Site shall not be used for raising livestock or producing animal products for human consumption;

The ECs may not be discontinued without an amendment or extinguishment of the Environmental Easement;

The Site owner or remedial party will submit to NYSDEC a written statement that certifies on an annual basis, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;

NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2-2114-25 One Point Street, Inc.

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

Allow the use and development of the controlled property for restricted residential, commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be reported at the frequency and in a manner defined in this SMP;

On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells and soil vapor probes as well as the required annual OU-2 Area SCS monitoring and reporting program, must be protected and replaced as necessary to confirm that the ECs continue to function in the manner specified in this SMP;

All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Soil Management Plan (Soil MP) part of the Excavation Work Plan (refer to SMP Attachment 13,) for any soils excavated in accordance with Section 2.3 of this SMP;

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must be replaced or repaired according to the Excavation Work Plan. Site soil excavated and removed from the Site must be managed, characterized, and properly disposed of in accordance with the NYSDEC regulations and directives and Excavation Work Plan. Guidelines
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Vegetable gardens and farming on the property are prohibited unless within the top 2 feet of clean Soil Cover System or above;

The Site shall not be used for raising livestock or producing animal products for human consumption;

The ECs may not be discontinued without an amendment or extinguishment of the Environmental Easement;

The Site owner or remedial party will submit to NYSDEC a written statement that certifies on an annual basis, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;

NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2-2114-26 One Point Street, Inc.

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

Allow the use and development of the controlled property for restricted residential, commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be

reported at the frequency and in a manner defined in this SMP;

On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells and soil vapor probes as well as the required annual OU-2 Area SCS monitoring and reporting program, must be protected and replaced as necessary to confirm that the ECs continue to function in the manner specified in this SMP;

All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Soil Management Plan (Soil MP) part of the Excavation Work Plan (refer to SMP Attachment 13,) for any soils excavated in accordance with Section 2.3 of this SMP;

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Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

Vegetable gardens and farming on the property are prohibited unless within
the top 2 feet of clean Soil Cover System or above;

The Site shall not be used for raising livestock or producing animal products
for human consumption;

The ECs may not be discontinued without an amendment or extinguishment
of the Environmental Easement;

The Site owner or remedial party will submit to NYSDEC a written statement that certifies on an annual basis, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;

NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2-2114-27 One Point Street, Inc.

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

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Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be reported at the frequency and in a manner defined in this SMP;

On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells and soil vapor probes as well as the required annual OU-2 Area SCS monitoring and reporting program, must be protected and replaced as necessary to confirm that the ECs continue to function in the manner specified in this SMP;

All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Soil Management Plan (Soil MP) part of the Excavation Work Plan (refer to SMP Attachment 13,) for any soils excavated in accordance with Section 2.3 of this SMP;

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Vegetable gardens and farming on the property are prohibited unless within
the top 2 feet of clean Soil Cover System or above;

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for human consumption;

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of the Environmental Easement;

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Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be reported at the frequency and in a manner defined in this SMP;

On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells and soil vapor probes as well as the required annual OU-2 Area SCS monitoring and reporting program, must be protected and replaced as necessary to confirm that the ECs continue to function in the manner specified in this SMP;

All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Soil Management Plan (Soil MP) part of the Excavation Work Plan (refer to SMP Attachment 13,) for any soils excavated in accordance with Section 2.3 of this SMP;

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for management of subsurface soils/fill and long-term maintenance of the upland area Site cover systems are provided in the Excavation Work Plan (refer to SMP Attachment 13);

Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

Vegetable gardens and farming on the property are prohibited unless within
the top 2 feet of clean Soil Cover System or above;

The Site shall not be used for raising livestock or producing animal products
for human consumption;

The ECs may not be discontinued without an amendment or extinguishment
of the Environmental Easement;

The Site owner or remedial party will submit to NYSDEC a written statement that certifies on an annual basis, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from

the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;

NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2-2114-29 One Point Street, Inc.

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

Allow the use and development of the controlled property for restricted residential, commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be reported at the frequency and in a manner defined in this SMP;

On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells and soil vapor probes as well as the required annual OU-2 Area SCS monitoring and reporting program, must be protected and replaced as necessary to confirm that the ECs continue to function in the manner specified in this SMP;

All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Soil Management Plan (Soil MP) part of the Excavation Work Plan (refer to SMP Attachment 13,) for any soils excavated in accordance with Section 2.3 of this SMP;

Any breach of the upland area Site cover system(s), including for purposes of construction or utilities work, must be replaced or repaired according to the Excavation Work Plan. Site soil excavated and removed from the Site must be managed, characterized, and properly disposed of in accordance with the NYSDEC regulations and directives and Excavation Work Plan. Guidelines
for management of subsurface soils/fill and long-term maintenance of the upland area Site cover systems are provided in the Excavation Work Plan (refer to SMP Attachment 13);

Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to

determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

Vegetable gardens and farming on the property are prohibited unless within the top 2 feet of clean Soil Cover System or above;

The Site shall not be used for raising livestock or producing animal products for human consumption;

The ECs may not be discontinued without an amendment or extinguishment of the Environmental Easement;

The Site owner or remedial party will submit to NYSDEC a written statement that certifies on an annual basis, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;

NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2-2114-30 One Point Street, Inc.

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

Allow the use and development of the controlled property for restricted residential, commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be reported at the frequency and in a manner defined in this SMP;

On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells and soil vapor probes as well as the required annual OU-2 Area SCS monitoring and reporting program, must be protected and replaced as necessary to confirm that the ECs continue to function in the manner specified in this SMP;

All future activities on the property that would disturb remaining contaminated material must be conducted

in accordance with the Soil Management Plan (Soil MP) part of the Excavation Work Plan (refer to SMP Attachment 13,) for any soils excavated in accordance with Section 2.3 of this SMP;

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for management of subsurface soils/fill and long-term maintenance of the upland area Site cover systems are provided in the Excavation Work Plan (refer to SMP Attachment 13);

Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

Vegetable gardens and farming on the property are prohibited unless within
the top 2 feet of clean Soil Cover System or above;

The Site shall not be used for raising livestock or producing animal products
for human consumption;

The ECs may not be discontinued without an amendment or extinguishment
of the Environmental Easement;

The Site owner or remedial party will submit to NYSDEC a written statement that certifies on an annual basis, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;

NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2-2114-31 One Point Street, Inc.

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

Allow the use and development of the controlled property for restricted residential, commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be reported at the frequency and in a manner defined in this SMP;

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Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

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The ECs may not be discontinued without an amendment or extinguishment of the Environmental Easement;

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2-2114-32 One Point Street, Inc.

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

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Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

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the top 2 feet of clean Soil Cover System or above;

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for human consumption;

The ECs may not be discontinued without an amendment or extinguishment
of the Environmental Easement;

The Site owner or remedial party will submit to NYSDEC a written statement that certifies on an annual basis, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;

NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

Allow the use and development of the controlled property for restricted residential, commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be reported at the frequency and in a manner defined in this SMP;

On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells and soil vapor probes as well as the required annual OU-2 Area SCS monitoring and reporting program, must be protected and replaced as necessary to confirm that the ECs continue to function in the manner specified in this SMP;

All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Soil Management Plan (Soil MP) part of the Excavation Work Plan (refer to SMP Attachment 13,) for any soils excavated in accordance with Section 2.3 of this SMP;

Any breach of the upland area Site cover system(s), including for purposes of construction or utilities work, must be replaced or repaired according to the Excavation Work Plan. Site soil excavated and removed from the Site must be managed, characterized, and properly disposed of in accordance with the NYSDEC regulations and directives and Excavation Work Plan. Guidelines
for management of subsurface soils/fill and long-term maintenance of the upland area Site cover systems are provided in the Excavation Work Plan (refer to SMP Attachment 13);

Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

Vegetable gardens and farming on the property are prohibited unless within
the top 2 feet of clean Soil Cover System or above;

The Site shall not be used for raising livestock or producing animal products
for human consumption;

The ECs may not be discontinued without an amendment or extinguishment

of the Environmental Easement;

The Site owner or remedial party will submit to NYSDEC a written statement that certifies on an annual basis, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;

NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2-2114-34 One Point Street, Inc.

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

Allow the use and development of the controlled property for restricted residential, commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be reported at the frequency and in a manner defined in this SMP;

On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells and soil vapor probes as well as the required annual OU-2 Area SCS monitoring and reporting program, must be protected and replaced as necessary to confirm that the ECs continue to function in the manner specified in this SMP;

All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Soil Management Plan (Soil MP) part of the Excavation Work Plan (refer to SMP Attachment 13,) for any soils excavated in accordance with Section 2.3 of this SMP;

Any breach of the upland area Site cover system(s), including for purposes of construction or utilities work, must be replaced or repaired according to the Excavation Work Plan. Site soil excavated and removed from the Site must be managed, characterized, and properly disposed of in accordance with the NYSDEC regulations and directives and Excavation Work Plan. Guidelines
for management of subsurface soils/fill and long-term maintenance of the upland area Site cover systems are provided in the Excavation Work Plan (refer to SMP Attachment 13);

Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

Vegetable gardens and farming on the property are prohibited unless within the top 2 feet of clean Soil Cover System or above;

The Site shall not be used for raising livestock or producing animal products for human consumption;

The ECs may not be discontinued without an amendment or extinguishment of the Environmental Easement;

The Site owner or remedial party will submit to NYSDEC a written statement that certifies on an annual basis, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;

NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2-2114-35 One Point Street, Inc.

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

Allow the use and development of the controlled property for restricted residential, commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be reported at the frequency and in a manner defined in this SMP;

On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells and soil vapor probes as well as the required annual OU-2 Area SCS monitoring and reporting program, must be protected and replaced as necessary to confirm that the ECs continue to function in the manner specified

in this SMP;

All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Soil Management Plan (Soil MP) part of the Excavation Work Plan (refer to SMP Attachment 13,) for any soils excavated in accordance with Section 2.3 of this SMP;

Any breach of the upland area Site cover system(s), including for purposes of construction or utilities work, must be replaced or repaired according to the Excavation Work Plan. Site soil excavated and removed from the Site must be managed, characterized, and properly disposed of in accordance with the NYSDEC regulations and directives and Excavation Work Plan. Guidelines
for management of subsurface soils/fill and long-term maintenance of the upland area Site cover systems are provided in the Excavation Work Plan (refer to SMP Attachment 13);

Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

Vegetable gardens and farming on the property are prohibited unless within
the top 2 feet of clean Soil Cover System or above;

The Site shall not be used for raising livestock or producing animal products
for human consumption;

The ECs may not be discontinued without an amendment or extinguishment
of the Environmental Easement;

The Site owner or remedial party will submit to NYSDEC a written statement that certifies on an annual basis, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;

NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2-2620-35 Extell Hudson Waterfront LLC c/o Extell

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

Allow the use and development of the controlled property for restricted residential, commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be reported at the frequency and in a manner defined in this SMP;

On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells and soil vapor probes as well as the required annual OU-2 Area SCS monitoring and reporting program, must be protected and replaced as necessary to confirm that the ECs continue to function in the manner specified in this SMP;

All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Soil Management Plan (Soil MP) part of the Excavation Work Plan (refer to SMP Attachment 13,) for any soils excavated in accordance with Section 2.3 of this SMP;

Any breach of the upland area Site cover system(s), including for purposes of construction or utilities work, must be replaced or repaired according to the Excavation Work Plan. Site soil excavated and removed from the Site must be managed, characterized, and properly disposed of in accordance with the NYSDEC regulations and directives and Excavation Work Plan. Guidelines
for management of subsurface soils/fill and long-term maintenance of the upland area Site cover systems are provided in the Excavation Work Plan (refer to SMP Attachment 13);

Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

Vegetable gardens and farming on the property are prohibited unless within
the top 2 feet of clean Soil Cover System or above;

The Site shall not be used for raising livestock or producing animal products
for human consumption;

The ECs may not be discontinued without an amendment or extinguishment
of the Environmental Easement;

The Site owner or remedial party will submit to NYSDEC a written statement that certifies on an annual basis, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;

NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2-2620-40 Extell Hudson Waterfront LLC c/o Extell

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

Allow the use and development of the controlled property for restricted residential, commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be reported at the frequency and in a manner defined in this SMP;

On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells and soil vapor probes as well as the required annual OU-2 Area SCS monitoring and reporting program, must be protected and replaced as necessary to confirm that the ECs continue to function in the manner specified in this SMP;

All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Soil Management Plan (Soil MP) part of the Excavation Work Plan (refer to SMP Attachment 13,) for any soils excavated in accordance with Section 2.3 of this SMP;

Any breach of the upland area Site cover system(s), including for purposes of construction or utilities work, must be replaced or repaired according to the Excavation Work Plan. Site soil excavated and removed from the Site must be managed, characterized, and properly disposed of in accordance with the NYSDEC regulations and directives and Excavation Work Plan. Guidelines
for management of subsurface soils/fill and long-term maintenance of the upland area Site cover systems are provided in the Excavation Work Plan (refer to SMP Attachment 13);

Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

Vegetable gardens and farming on the property are prohibited unless within
the top 2 feet of clean Soil Cover System or above;

The Site shall not be used for raising livestock or producing animal products
for human consumption;

The ECs may not be discontinued without an amendment or extinguishment
of the Environmental Easement;

The Site owner or remedial party will submit to NYSDEC a written statement that certifies on an annual basis, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;

NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the

continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2-2625-15 Extell Hudson Waterfront LLC c/o Extell

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

Allow the use and development of the controlled property for restricted residential, commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be reported at the frequency and in a manner defined in this SMP;

On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells and soil vapor probes as well as the required annual OU-2 Area SCS monitoring and reporting program, must be protected and replaced as necessary to confirm that the ECs continue to function in the manner specified in this SMP;

All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Soil Management Plan (Soil MP) part of the Excavation Work Plan (refer to SMP Attachment 13,) for any soils excavated in accordance with Section 2.3 of this SMP;

Any breach of the upland area Site cover system(s), including for purposes of construction or utilities work, must be replaced or repaired according to the Excavation Work Plan. Site soil excavated and removed from the Site must be managed, characterized, and properly disposed of in accordance with the NYSDEC regulations and directives and Excavation Work Plan. Guidelines
for management of subsurface soils/fill and long-term maintenance of the upland area Site cover systems are provided in the Excavation Work Plan (refer to SMP Attachment 13);

Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

Vegetable gardens and farming on the property are prohibited unless within
the top 2 feet of clean Soil Cover System or above;

The Site shall not be used for raising livestock or producing animal products

for human consumption;

The ECs may not be discontinued without an amendment or extinguishment of the Environmental Easement;

The Site owner or remedial party will submit to NYSDEC a written statement that certifies on an annual basis, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;

NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2-2625-17 Extell Hudson Waterfront LLC c/o Extell

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

Allow the use and development of the controlled property for restricted residential, commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be reported at the frequency and in a manner defined in this SMP;

On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells and soil vapor probes as well as the required annual OU-2 Area SCS monitoring and reporting program, must be protected and replaced as necessary to confirm that the ECs continue to function in the manner specified in this SMP;

All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Soil Management Plan (Soil MP) part of the Excavation Work Plan (refer to SMP Attachment 13,) for any soils excavated in accordance with Section 2.3 of this SMP;

Any breach of the upland area Site cover system(s), including for purposes of construction or utilities work, must be replaced or repaired according to the Excavation Work Plan. Site soil excavated and removed from the Site must be managed, characterized, and properly disposed of in accordance with the NYSDEC regulations and directives and Excavation Work Plan. Guidelines

for management of subsurface soils/fill and long-term maintenance of the upland area Site cover systems are provided in the Excavation Work Plan (refer to SMP Attachment 13);

Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

Vegetable gardens and farming on the property are prohibited unless within the top 2 feet of clean Soil Cover System or above;

The Site shall not be used for raising livestock or producing animal products for human consumption;

The ECs may not be discontinued without an amendment or extinguishment of the Environmental Easement;

The Site owner or remedial party will submit to NYSDEC a written statement that certifies on an annual basis, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;

NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2-2625-21 Extell Hudson Waterfront LLC c/o Extell

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

Allow the use and development of the controlled property for restricted residential, commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be reported at the frequency and in a manner defined in this SMP;

On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells and

soil vapor probes as well as the required annual OU-2 Area SCS monitoring and reporting program, must be protected and replaced as necessary to confirm that the ECs continue to function in the manner specified in this SMP;

All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Soil Management Plan (Soil MP) part of the Excavation Work Plan (refer to SMP Attachment 13,) for any soils excavated in accordance with Section 2.3 of this SMP;

Any breach of the upland area Site cover system(s), including for purposes of construction or utilities work, must be replaced or repaired according to the Excavation Work Plan. Site soil excavated and removed from the Site must be managed, characterized, and properly disposed of in accordance with the NYSDEC regulations and directives and Excavation Work Plan. Guidelines
for management of subsurface soils/fill and long-term maintenance of the upland area Site cover systems are provided in the Excavation Work Plan (refer to SMP Attachment 13);

Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

Vegetable gardens and farming on the property are prohibited unless within
the top 2 feet of clean Soil Cover System or above;

The Site shall not be used for raising livestock or producing animal products
for human consumption;

The ECs may not be discontinued without an amendment or extinguishment
of the Environmental Easement;

The Site owner or remedial party will submit to NYSDEC a written statement that certifies on an annual basis, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;

NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2-2625-23 Extell Hudson Waterfront LLC c/o Extell

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

Allow the use and development of the controlled property for restricted residential, commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be reported at the frequency and in a manner defined in this SMP;

On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells and soil vapor probes as well as the required annual OU-2 Area SCS monitoring and reporting program, must be protected and replaced as necessary to confirm that the ECs continue to function in the manner specified in this SMP;

All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Soil Management Plan (Soil MP) part of the Excavation Work Plan (refer to SMP Attachment 13,) for any soils excavated in accordance with Section 2.3 of this SMP;

Any breach of the upland area Site cover system(s), including for purposes of construction or utilities work, must be replaced or repaired according to the Excavation Work Plan. Site soil excavated and removed from the Site must be managed, characterized, and properly disposed of in accordance with the NYSDEC regulations and directives and Excavation Work Plan. Guidelines
for management of subsurface soils/fill and long-term maintenance of the upland area Site cover systems are provided in the Excavation Work Plan (refer to SMP Attachment 13);

Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

Vegetable gardens and farming on the property are prohibited unless within
the top 2 feet of clean Soil Cover System or above;

The Site shall not be used for raising livestock or producing animal products
for human consumption;

The ECs may not be discontinued without an amendment or extinguishment
of the Environmental Easement;

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Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

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The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be reported at the frequency and in a manner defined in this SMP;

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Any breach of the upland area Site cover system(s), including for purposes of construction or utilities work, must be replaced or repaired according to the Excavation Work Plan. Site soil excavated and removed from the Site must be managed, characterized, and properly disposed of in accordance with the NYSDEC regulations and directives and Excavation Work Plan. Guidelines
for management of subsurface soils/fill and long-term maintenance of the upland area Site cover systems are provided in the Excavation Work Plan (refer to SMP Attachment 13);

Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

Vegetable gardens and farming on the property are prohibited unless within
the top 2 feet of clean Soil Cover System or above;

The Site shall not be used for raising livestock or producing animal products
for human consumption;

The ECs may not be discontinued without an amendment or extinguishment
of the Environmental Easement;

The Site owner or remedial party will submit to NYSDEC a written statement that certifies on an annual basis, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;

NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2-2630-10 Extell Hudson Waterfront LLC c/o Extell

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

Allow the use and development of the controlled property for restricted residential, commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be reported at the frequency and in a manner defined in this SMP;

On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells and soil vapor probes as well as the required annual OU-2 Area SCS monitoring and reporting program, must be protected and replaced as necessary to confirm that the ECs continue to function in the manner specified in this SMP;

All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Soil Management Plan (Soil MP) part of the Excavation Work Plan (refer to SMP Attachment 13,) for any soils excavated in accordance with Section 2.3 of this SMP;

Any breach of the upland area Site cover system(s), including for purposes of construction or utilities work, must be replaced or repaired according to the Excavation Work Plan. Site soil excavated and removed from the Site must be managed, characterized, and properly disposed of in accordance with the NYSDEC regulations and directives and Excavation Work Plan. Guidelines
for management of subsurface soils/fill and long-term maintenance of the upland area Site cover systems are provided in the Excavation Work Plan (refer to SMP Attachment 13);

Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

Vegetable gardens and farming on the property are prohibited unless within
the top 2 feet of clean Soil Cover System or above;

The Site shall not be used for raising livestock or producing animal products for human consumption;

The ECs may not be discontinued without an amendment or extinguishment of the Environmental Easement;

The Site owner or remedial party will submit to NYSDEC a written statement that certifies on an annual basis, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;

NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2-2630-2 Extell Hudson Waterfront LLC c/o Extell

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

Allow the use and development of the controlled property for restricted residential, commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be reported at the frequency and in a manner defined in this SMP;

On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells and soil vapor probes as well as the required annual OU-2 Area SCS monitoring and reporting program, must be protected and replaced as necessary to confirm that the ECs continue to function in the manner specified in this SMP;

All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Soil Management Plan (Soil MP) part of the Excavation Work Plan (refer to SMP Attachment 13,) for any soils excavated in accordance with Section 2.3 of this SMP;

Any breach of the upland area Site cover system(s), including for purposes of construction or utilities work,

must be replaced or repaired according to the Excavation Work Plan. Site soil excavated and removed from the Site must be managed, characterized, and properly disposed of in accordance with the NYSDEC regulations and directives and Excavation Work Plan. Guidelines
for management of subsurface soils/fill and long-term maintenance of the upland area Site cover systems are provided in the Excavation Work Plan (refer to SMP Attachment 13);

Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

Vegetable gardens and farming on the property are prohibited unless within the top 2 feet of clean Soil Cover System or above;

The Site shall not be used for raising livestock or producing animal products for human consumption;

The ECs may not be discontinued without an amendment or extinguishment of the Environmental Easement;

The Site owner or remedial party will submit to NYSDEC a written statement that certifies on an annual basis, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;

NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

2-2630-3 Extell Hudson Waterfront LLC c/o Extell

Ground Water Use Restriction
Soil Management Plan
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Require the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3);

Allow the use and development of the controlled property for restricted residential, commercial or industrial use as defined by Part 375-1.8(g), although land use is subject to local zoning laws;

Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOH;

Groundwater monitoring and other environmental or public health monitoring must be performed as defined in this SMP;

Require compliance with the Department approved Site Management Plan;

The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be mitigated;

Data and information pertinent to Site Management for the Controlled Property (i.e., the Site) must be

reported at the frequency and in a manner defined in this SMP;

On-Site environmental monitoring devices, including but not limited to groundwater monitoring wells and soil vapor probes as well as the required annual OU-2 Area SCS monitoring and reporting program, must be protected and replaced as necessary to confirm that the ECs continue to function in the manner specified in this SMP;

All future activities on the property that would disturb remaining contaminated material must be conducted in accordance with the Soil Management Plan (Soil MP) part of the Excavation Work Plan (refer to SMP Attachment 13,) for any soils excavated in accordance with Section 2.3 of this SMP;

Any breach of the upland area Site cover system(s), including for purposes of construction or utilities work, must be replaced or repaired according to the Excavation Work Plan. Site soil excavated and removed from the Site must be managed, characterized, and properly disposed of in accordance with the NYSDEC regulations and directives and Excavation Work Plan. Guidelines
for management of subsurface soils/fill and long-term maintenance of the upland area Site cover systems are provided in the Excavation Work Plan (refer to SMP Attachment 13);

Any breach of the OU-2 Area SCS after an emergency, such as a hurricane, storm, or other event, recorded by the SCS Remote Sensing Program will require sampling in the vicinity of the breach to determine if PCBs have escaped from the breached area and the OU-2 Area SCS.

Vegetable gardens and farming on the property are prohibited unless within
the top 2 feet of clean Soil Cover System or above;

The Site shall not be used for raising livestock or producing animal products
for human consumption;

The ECs may not be discontinued without an amendment or extinguishment
of the Environmental Easement;

The Site owner or remedial party will submit to NYSDEC a written statement that certifies on an annual basis, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP;

NYSDEC retains the right to access such Controlled Property at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
2-2114-17	Cover System Fencing/Access Control Monitoring Wells

Upland Site-wide Cover System Engineered Cap;

6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System;

12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area;

2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas;

Parcel	Engineering Control
2' thick Soil Cover over all other unremediated areas per 2005 ROD; composite and steel bulkheads inspected and maintained; Engineered Multilayer Sediment Cover System (OU-2 SCS); Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.	
2-2114-20	Cover System Monitoring Wells Fencing/Access Control
Upland Site-wide Cover System Engineered Cap; 6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System; 12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area; 2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas; 2' thick Soil Cover over all other unremediated areas per 2005 ROD; composite and steel bulkheads inspected and maintained; Engineered Multilayer Sediment Cover System (OU-2 SCS); Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.	
2-2114-21	Cover System Fencing/Access Control Monitoring Wells
Upland Site-wide Cover System Engineered Cap; 6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System; 12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area; 2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas; 2' thick Soil Cover over all other unremediated areas per 2005 ROD; composite and steel bulkheads inspected and maintained; Engineered Multilayer Sediment Cover System (OU-2 SCS); Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.	
2-2114-22	Cover System Fencing/Access Control Monitoring Wells
Upland Site-wide Cover System Engineered Cap; 6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System;	

Parcel Engineering Control

12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area;

2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas;

2' thick Soil Cover over all other unremediated areas per 2005 ROD;

composite and steel bulkheads inspected and maintained;

Engineered Multilayer Sediment Cover System (OU-2 SCS);

Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.

2-2114-23

Cover System
Fencing/Access Control
Monitoring Wells

Upland Site-wide Cover System Engineered Cap;

6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System;

12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area;

2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas;

2' thick Soil Cover over all other unremediated areas per 2005 ROD;

composite and steel bulkheads inspected and maintained;

Engineered Multilayer Sediment Cover System (OU-2 SCS);

Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.

2-2114-24

Cover System
Fencing/Access Control
Monitoring Wells

Upland Site-wide Cover System Engineered Cap;

6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System;

12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area;

2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas;

2' thick Soil Cover over all other unremediated areas per 2005 ROD;

composite and steel bulkheads inspected and maintained;

Engineered Multilayer Sediment Cover System (OU-2 SCS);

Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.

2-2114-25

Cover System
Fencing/Access Control
Monitoring Wells

Parcel Engineering Control

Upland Site-wide Cover System Engineered Cap;

6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System;

12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area;

2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas;

2' thick Soil Cover over all other unremediated areas per 2005 ROD;

composite and steel bulkheads inspected and maintained;

Engineered Multilayer Sediment Cover System (OU-2 SCS);

Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.

2-2114-26

Cover System
Fencing/Access Control
Monitoring Wells

Upland Site-wide Cover System Engineered Cap;

6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System;

12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area;

2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas;

2' thick Soil Cover over all other unremediated areas per 2005 ROD;

composite and steel bulkheads inspected and maintained;

Engineered Multilayer Sediment Cover System (OU-2 SCS);

Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.

2-2114-27

Cover System
Fencing/Access Control
Monitoring Wells

Upland Site-wide Cover System Engineered Cap;

6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System;

12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area;

2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas;

2' thick Soil Cover over all other unremediated areas per 2005 ROD;

composite and steel bulkheads inspected and maintained;

Engineered Multilayer Sediment Cover System (OU-2 SCS);

Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.

Parcel	Engineering Control
2-2114-28	Cover System Fencing/Access Control Monitoring Wells

Upland Site-wide Cover System Engineered Cap;

6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System;

12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area;

2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas;

2' thick Soil Cover over all other unremediated areas per 2005 ROD;

composite and steel bulkheads inspected and maintained;

Engineered Multilayer Sediment Cover System (OU-2 SCS);

Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.

2-2114-29	Vapor Mitigation Cover System Fencing/Access Control Monitoring Wells

Upland Site-wide Cover System Engineered Cap;

6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System;

12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area;

2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas;

2' thick Soil Cover over all other unremediated areas per 2005 ROD;

composite and steel bulkheads inspected and maintained;

Engineered Multilayer Sediment Cover System (OU-2 SCS);

Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.

2-2114-30	Cover System Fencing/Access Control Monitoring Wells

Upland Site-wide Cover System Engineered Cap;

6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System;

12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area;

2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas;

2' thick Soil Cover over all other unremediated areas per 2005 ROD;

composite and steel bulkheads inspected and maintained;

Parcel	Engineering Control

Engineered Multilayer Sediment Cover System (OU-2 SCS);

Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.

2-2114-31

Cover System
Fencing/Access Control
Monitoring Wells

Upland Site-wide Cover System Engineered Cap;

6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System;

12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area;

2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas;

2' thick Soil Cover over all other unremediated areas per 2005 ROD;

composite and steel bulkheads inspected and maintained;

Engineered Multilayer Sediment Cover System (OU-2 SCS);

Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.

2-2114-32

Cover System
Fencing/Access Control
Monitoring Wells

Upland Site-wide Cover System Engineered Cap;

6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System;

12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area;

2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas;

2' thick Soil Cover over all other unremediated areas per 2005 ROD;

composite and steel bulkheads inspected and maintained;

Engineered Multilayer Sediment Cover System (OU-2 SCS);

Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.

2-2114-33

Cover System
Fencing/Access Control
Monitoring Wells

Upland Site-wide Cover System Engineered Cap;

6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System;

12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area;

2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas;

Parcel	Engineering Control

2' thick Soil Cover over all other unremediated areas per 2005 ROD;

composite and steel bulkheads inspected and maintained;

Engineered Multilayer Sediment Cover System (OU-2 SCS);

Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.

2-2114-34

Cover System
Fencing/Access Control
Monitoring Wells

Upland Site-wide Cover System Engineered Cap;

6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System;

12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area;

2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas;

2' thick Soil Cover over all other unremediated areas per 2005 ROD;

composite and steel bulkheads inspected and maintained;

Engineered Multilayer Sediment Cover System (OU-2 SCS);

Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.

2-2114-35

Cover System
Fencing/Access Control
Monitoring Wells

Upland Site-wide Cover System Engineered Cap;

6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System;

12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area;

2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas;

2' thick Soil Cover over all other unremediated areas per 2005 ROD;

composite and steel bulkheads inspected and maintained;

Engineered Multilayer Sediment Cover System (OU-2 SCS);

Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.

2-2620-35

Cover System
Fencing/Access Control
Monitoring Wells

Upland Site-wide Cover System Engineered Cap;

6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System;

Parcel	Engineering Control
	12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area; 2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas; 2' thick Soil Cover over all other unremediated areas per 2005 ROD; composite and steel bulkheads inspected and maintained; Engineered Multilayer Sediment Cover System (OU-2 SCS); Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.
2-2620-40	Cover System Fencing/Access Control Monitoring Wells Upland Site-wide Cover System Engineered Cap; 6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System; 12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area; 2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas; 2' thick Soil Cover over all other unremediated areas per 2005 ROD; composite and steel bulkheads inspected and maintained; Engineered Multilayer Sediment Cover System (OU-2 SCS); Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.
2-2625-15	Cover System Fencing/Access Control Monitoring Wells Upland Site-wide Cover System Engineered Cap; 6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System; 12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area; 2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas; 2' thick Soil Cover over all other unremediated areas per 2005 ROD; composite and steel bulkheads inspected and maintained; Engineered Multilayer Sediment Cover System (OU-2 SCS); Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.
2-2625-17	Cover System Fencing/Access Control

Parcel	Engineering Control
	Monitoring Wells

Upland Site-wide Cover System Engineered Cap;

6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System;

12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area;

2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas;

2' thick Soil Cover over all other unremediated areas per 2005 ROD;

composite and steel bulkheads inspected and maintained;

Engineered Multilayer Sediment Cover System (OU-2 SCS);

Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.

2-2625-21

Cover System
Fencing/Access Control
Monitoring Wells

Upland Site-wide Cover System Engineered Cap;

6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System;

12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area;

2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas;

2' thick Soil Cover over all other unremediated areas per 2005 ROD;

composite and steel bulkheads inspected and maintained;

Engineered Multilayer Sediment Cover System (OU-2 SCS);

Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.

2-2625-23

Cover System
Fencing/Access Control
Monitoring Wells

Upland Site-wide Cover System Engineered Cap;

6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System;

12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area;

2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas;

2' thick Soil Cover over all other unremediated areas per 2005 ROD;

composite and steel bulkheads inspected and maintained;

Engineered Multilayer Sediment Cover System (OU-2 SCS);

Steel chain-link fencing to restrict access to the Site and open water areas until Site development

Parcel	Engineering Control
occurs.	
2-2630-1	Cover System Fencing/Access Control Monitoring Wells

Upland Site-wide Cover System Engineered Cap;

6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System;

12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area;

2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas;

2' thick Soil Cover over all other unremediated areas per 2005 ROD;

composite and steel bulkheads inspected and maintained;

Engineered Multilayer Sediment Cover System (OU-2 SCS);

Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.

2-2630-10	Cover System Fencing/Access Control Monitoring Wells

Upland Site-wide Cover System Engineered Cap;

6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System;

12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area;

2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas;

2' thick Soil Cover over all other unremediated areas per 2005 ROD;

composite and steel bulkheads inspected and maintained;

Engineered Multilayer Sediment Cover System (OU-2 SCS);

Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.

2-2630-2	Cover System Fencing/Access Control Monitoring Wells

Upland Site-wide Cover System Engineered Cap;

6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System;

12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area;

2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas;

2' thick Soil Cover over all other unremediated areas per 2005 ROD;

composite and steel bulkheads inspected and maintained;

Parcel	Engineering Control
Engineered Multilayer Sediment Cover System (OU-2 SCS); Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.	
2-2630-3	Cover System Fencing/Access Control Monitoring Wells
Upland Site-wide Cover System Engineered Cap; 6-Inch-Thick Asphalt Pavement Cover System and Concrete Pavement System; 12-Inch-Thick Asphalt Pavement Cover System for the North Yard Area; 2' thick Soil Cover System over demarcation layer for Vegetated or Unpaved Areas; 2' thick Soil Cover over all other unremediated areas per 2005 ROD; composite and steel bulkheads inspected and maintained; Engineered Multilayer Sediment Cover System (OU-2 SCS); Steel chain-link fencing to restrict access to the Site and open water areas until Site development occurs.	

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative — Date

IC CERTIFICATIONS
SITE NO. C360051

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Gary Barnett (print name) at Extell Hudson Waterfront, LLC (print business address),

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

10/15/18
Date

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I JAMES M. SZEMAN, P.E. at ONE LARKIN PLAZA, 2ND FLOOR YONKERS, NEW YORK 10701,

print name — print business address

am certifying as a Qualified Environmental Professional for the EXTELL HUDSON WATERFRONT, LLC

(Owner or Remedial Party)

James M. Szeman

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

10 OCTOBER 2018

Date

APPENDIX B

Site-Wide Inspection Forms and Photographs

Former BICC Cables Site - NYSDEC Site No. C360051
Site-Wide Inspection Form

Date of Inspection: 8/6/18 - 8/7/18

Name of Inspector/Company: J. Szeman/S. Caporizzo; PS&S Engineering, PC

Items Inspected: (check items that were inspected)

X Groundwater Monitoring Wells
X Northwest Bulkhead
X North Bulkhead
X Open Water Steel Sheet Pile Bulkhead
X Containment Bulkhead
X Former Building 8 Vinyl Sheet Pile Bulkhead
X 6-inch Thick Pavement Cover System
X 12-inch Thick Pavement Cover System
X 6-inch Thick Concrete Cover System
X Future Soil Cover System
X Operable Unit #2 (OU-2) DCU Area 2B2 Sediment Cover System
X Rip-Rap (Revetment Stone) Shoreline
X Former West Warehouse
X South Yard and North Yard
X Site-Wide Perimeter Fencing and Locks

South Yard

Describe the condition of each item inspected:

- Pavement Cover System

  The pavement cover system was visible in the eastern portion of the South Yard (remaining portions were covered with fill materials as discussed below). Several small potholes (1'-2' diameter) were observed near the bus lot entrance. Repairs were made to the potholes using asphalt.

- Future Soil Cover Systems

  NYSDEC-approved imported fill materials were observed in the South Yard placed above the Pavement Cover System. The limits of fill materials placed in the South Yard are identified in the Site Plan (Figure 1). Materials were observed in good condition.

- Monitoring Wells

  RMW-5 was buried beneath NYSDEC-approved imported fill materials placed for regarding purposes. RMW-5 was located by temporarily removing the overlaying imported fill materials. For ease of access during future sampling, approximately 8.15' of PVC riser was installed on RMW-5 to raise the top of casing above the new elevated grade (includes an approximately 3' long stick-up). A well cap was installed on the stick-up. RMW-5 was operational during the two Semi-Annual GW Monitoring events performed during this reporting period.

- Rip-Rap (Revetment Stone) along the Hudson River

  Rip-Rap (Revetment Stone) observed in stable condition. Miscellaneous debris observed.

North Yard

Describe the condition of each item inspected:

- Pavement and Concrete Cover Systems

  The Pavement Cover System was visible in the eastern part of the North Yard (remaining areas were covered with fill materials as discussed below). Several small potholes (1'-2' diameter) were observed near the main Site entrance. Repairs were made to the potholes using asphalt.

- Future Soil Cover Systems

  NYSDEC-approved imported fill materials were observed in the North Yard placed above the Pavement Cover System. The limits of fill materials placed in the North Yard are identified in the Site Plan (Figure 1). Materials were observed in good condition.

- Monitoring Wells

  RMW-3 and RMW-4 were buried beneath NYSDEC-approved imported fill materials placed for regrading purposes. RMW-3 and RMW-4 were located by temporarily removing the overlaying imported fill materials. For ease of access during future sampling, approximately 16.6' of PVC riser was installed on RMW-3 and 8' of PVC riser was installed on RMW-4 to raise the top of casing above the new elevated grade (includes an approximately 3' long stick-up). A well cap was installed on the stick-up. RMW-3 and RMW-4 were operational during the two Semi-Annual GW Monitoring events performed during this reporting period.

- Rip-Rap along the Hudson River (Former West Warehouse Revetment Stone)

  Rip-Rap (Revetment Stone) observed in stable condition. Miscellaneous debris observed.

Demolition/Below Building Area

Describe the condition of each item inspected:

- Pavement Cover Systems

  The Pavement Cover System was visible in the northern and western part of the Demolition/Below Building Area (remaining portions were covered with fill materials as discussed below). Several small potholes (1'-2' diameter) were observed inland and several small to moderate sized sinkholes (1'-4' diameter) were observed along to northern Site edge adjacent to the northern bulkhead. Repairs were made to the inland potholes using asphalt. On-site stone was used to fill the sink holes as an effort to reduce erosion and stabilize the cover system.

- Future Soil Cover System

  NYSDEC-approved imported fill materials were observed in the Demolition/Below Building Area placed above the Pavement Cover System. The limits of fill materials placed in the Demolition/Below Building Area are identified in the Site Plan (Figure 1). Materials were observed in good condition.

- Monitoring Well RMW-2

  RMW-2 was not sampled in either of the Semi-Annual GW Monitoring events due to an obstruction in the well. RMW-2 will be decommissioned, replaced in kind, and sampled during the next reporting period (August 18, 2018 to August 17, 2019) in accordance with SMP protocol and will be documented in the subsequent PRR.

- North and Northwest Bulkheads

  Damage to north and northwest bulkhead timber cap (from March 2018 barge incident). Sinkholes and horizontal displacement along the north bulkhead was observed. Repairs made are documented in the photolog.

BICC Parking Lot

Describe the condition of each item inspected:

- Monitoring Wells

  RMW-1 was identified in the BICC Parking Lot. RMW-1 was observed in good condition. RMW-1 was operational during the two Semi-Annual GW Monitoring events performed during this reporting period.

Site-Wide

Describe the condition of each item inspected:

- Perimeter Fencing and Locks:

  Fencing along the northern, eastern and southern perimeter of the upland area of the Site west of the MTA railroad tracks was observed in good condition. Two gated entrances with locks (both in the South Yard) observed. Along the western perimeter, and a part of the northern perimeter, the BICC Site is protected by a natural barrier, the Hudson River.

  The perimeter fence along the western, eastern, and southern perimeter of the BICC Parking Lot was observed in good condition. Minor damage was observed on the northern Site perimeter fencing (bent). There was also a portion (approximately 10' length) which was replaced by bin-blocks.

  Overall the perimeter fencing/barriers and locks were observed to be effective at controlling access to the Site.

OU-2 Area (DCU Area 2B) Sediment Cover System

Refer to bathymetric survey and SmarTec DiTeSt Measurement Report

Former BICC Cables Site - NYSDEC Site No. C360051

Site-Wide Inspection Form

Site-Wide Features

Date of Inspection: 8/7/18

Name of Inspector/Company: Scott Caporizzo/PS&S

Enter Yes or No in the spaces below. Please explain any "Yes" notes in the comments section below, and any actions to be taken.

1. **Perimeter Fencing**

Yes Is there any damage to the fence?
1. See comments

Yes Have any portions of the fence been knocked down?
1. See comments

No Are there any holes in the fence?

2. **Perimeter Locks**

Yes Are the locks easily accessible?

Yes Do the locks work when using the appropriate key?

No Are the locks rusted?

No Are any of the locks missing?

No Are any locks damaged or not serving their purpose?

Comments:

Fencing along the northern, eastern and southern perimeter of the upland area of the Site west of the MTA railroad tracks was observed in good condition. Two gated entrances with locks (both in the South Yard) observed. Along the western perimeter, and a part of the northern perimeter, the BICC Site is protected by a natural barrier, the Hudson River. The perimeter fence along the western, eastern, and southern perimeter of the BICC Parking Lot was observed in good condition. Minor damage was observed on the northern Site perimeter fencing (bent). There was also a portion (approximately 10' length) which was replaced by bin-blocks. Overall the perimeter fencing/barriers and locks were observed to be effective at controlling access to the Site.

Former BICC Cables Site - NYSDEC Site No. C360051

Site-Wide Inspection Form

South Yard Area

Date of Inspection: 8/7/18

Name of Inspector/Company: Scott Caporizzo/PS&S

Enter Yes or No in the spaces below. Please explain any "Yes" notes in the comments section below, and any actions to be taken.

1. Pavement cover system

   No Any damage or evidence of bad housekeeping to the engineering control?

   Yes Any changes since the last inspection?
   - See comment #1 in comments section.

   No Is the engineering control **not** performing as designated in the SMP?

   No Is the engineering control **not** protective of human health and the environment?

2. Soil cover system

   No Any damage or evidence of bad housekeeping to the engineering control?

   Yes Any changes since the last inspection?
   - See comment #2 in comments section.

   No Is the engineering control **not** performing as designated in the SMP?

   No Is the engineering control **not** protective of human health and the environment?

3. Monitoring Wells

   No Any damage to the concrete pad?

   No Any damage to the manhole, including the cover?

   No Is there debris and/or standing water in the manhole?

   No Is there a loose fitting plug on the PVC riser?

   Yes Is access to the well impeded in any way? - See comment #3 in comments section.

   No Is the well screen and riser in bad condition and/or contains debris?

   No Is the soil surrounding the well showing signs of erosion, settlement, or other condition that could compromise the well?

4. Additional areas identified during the inspection. Please list areas in the comments section, which engineering control is in place, and whether the engineering control is in conformance with the SMP and protective of human health and the environment.

Comments:

1. NYSDEC-approved fill material placed above the pavement cover system. Several areas of the pavement cover system are no longer visible for inspection. Per the SMP, Site-wide inspection will focus on the integrity of the overlying NYSDEC-approved fill materials.

2. NYSDEC-approved fill materials have been placed above the pavement cover system in in the South Yard. The limits of fill materials placed in the South Yard are identified in the Site Plan (Figure 1). Materials were observed in good condition.

3. RMW-5 was buried beneath NYSDEC-approved imported fill materials placed for Site grading purposes. RMW-5 was located by temporarily removing the overlaying imported fill materials. For ease of access during future sampling, approximately 8.15' of PVC riser was installed to raise the top of casing above the new elevated grade (includes an approximately 3' long stick-up). A well cap was installed on the stick-up. RMW-5 was operational during the two Semi-Annual GW Monitoring events performed during this reporting period.



Photograph 1 – View of concrete pavement roadway area on eastern side of South Yard. Observed in good condition. View to the north.



Photograph 2 – View of concrete pavement roadway area on eastern side of South Yard. Observed in good condition. View to the south.



Photograph 3 – View of NYSDEC-approved fill materials placed above the Upland Site-wide cover system located in the South Yard. Surface rutting observed due to active bus/car traffic. Maintenance is documented in the O&M documentation (Appendix D). Vew to the west.



Photograph 4 – View of gated entrance to the Site located in the South Yard. Observed open for bus/car parking operations. View to the northwest.



Photograph 5 – View of gated entrance to the Site located in the South Yard. Observed open for bus/car parking operations. View to the south.



Photograph 6 - View of asphalt pavement cover system on eastern side of South Yard. Active car/bus traffic and sediment build-up observed. Vew to the north.



Photograph 7 – View of NYSDEC-approved fill materials placed above the Upland Site-wide cover system located in the South Yard. Active car/bus traffic observed. Observed in stable condition. Vew to the south.



Photograph 8 – View of NYSDEC-approved fill materials placed above the Upland Site-wide cover system located in the South Yard. Active car/bus traffic observed. Observed in stable condition. Vew to the north.



Photograph 9 – View of RMW-5. Observed protected from traffic and in stable condition. View to the north.



Photograph 10 - View of NYSDEC-approved fill materials placed above the Upland Site-wide cover system located in the South Yard. Active car/bus traffic observed. Observed in stable condition. Vew to the south.



Photograph 11 – View of NYSDEC-approved fill materials placed above the Upland Site-wide cover system located in the South Yard. Area inactive. Observed in stable condition. Vew to the east.



Photograph 12 – View of NYSDEC-approved fill materials placed above the Upland Site-wide cover system located in the South Yard. Area inactive. Observed in stable condition. Vew to the north.



Photograph 13 – View of NYSDEC-approved fill materials placed above the Upland Site-wide cover system located in the South Yard. Area inactive. Observed in stable condition. Vew to the southeast.

Former BICC Cables Site - NYSDEC Site No. C360051

Site-Wide Inspection Form

North Yard Area

Date of Inspection: 8/7/18

Name of Inspector/Company: Scott Caporizzo/PS&S

Enter Yes or No in the spaces below. Please explain any "Yes" notes in the comments section below, and any actions to be taken.

1. Pavement and concrete cover system

   No Any damage or evidence of bad housekeeping to the engineering control?

   Yes Any changes since the last inspection?
   - See Comment #1 in comments section.

   No Is the engineering control **not** performing as designated in the SMP?

   No Is the engineering control **not** protective of human health and the environment?

2. Soil cover system

   No Any damage or evidence of bad housekeeping to the engineering control?

   Yes Any changes since the last inspection?
   - See Comment #2 in comments section.

   No Is the engineering control **not** performing as designated in the SMP?

   No Is the engineering control **not** protective of human health and the environment?

3. Monitoring Wells

   No Any damage to the concrete pad?

   No Any damage to the manhole, including the cover?

   No Is there debris and/or standing water in the manhole?

   No Is there a loose fitting plug on the PVC riser?

   Yes Is access to the well impeded in any way?

   No Is the well screen and riser in bad condition and/or contains debris?

   No Is the asphalt surrounding the well showing signs of cracking, settlement, or other condition that could compromise the well?

4. Additional areas identified during the inspection. Please list areas in the comments section, which engineering control is in place, and whether the engineering control is in conformance with the SMP, and protective of human health and the environment.

Comments:

1. NYSDEC-approved fill material placed above the pavement cover system. Several parts of the pavement cover system are no longer visible for inspection. Per the SMP, Site-wide inspection will focus on the integrity of the overlying NYSDEC-approved fill materials.

2. NYSDEC-approved fill materials have been placed above the pavement cover system in in the North Yard. The limits of fill materials placed in the North Yard are identified in the Site Plan (Figure 1). Materials were observed in good condition.

3. RMW-3 and RMW-4 were buried beneath NYSDEC-approved imported fill materials placed for Site grading purposes. RMW-3 and RMW-4 were located by temporarily removing the overlaying imported fill materials. For ease of access during future sampling, approximately 16.6' of PVC riser was installed on RMW-3 and 8.15' of PVC riser was installed on RMW-4 to raise the top of casing above the new elevated grade (includes an approximately 3' long stick-up). A well cap was installed on the stick-up. RMW-3 and RMW-4 were operational during the two Semi-Annual GW Monitoring events performed during this 2018 PRR reporting period.



Photograph 1 – View of the asphalt pavement cover system in the North Yard. View to the south.



Photograph 2 – View of the asphalt pavement cover system in the North Yard. View to the south.



Photograph 3 – View of NYSDEC-approved fill materials placed above the Upland Site-wide cover system in the North Yard (south of the former Building 8 Area). Fill material area inactive. Observed in stable condition. Vew to the southwest.



Photograph 4 – View of the asphalt pavement cover system in the North Yard. View to the north.



Photograph 5 – View of the asphalt pavement cover system in the North Yard. View to the south.



Photograph 7 – View of RMW-4. Observed in operable condition. View to the south.



Photograph 6 – View of NYSDEC-approved fill materials placed above the Upland Site-wide cover system in the North Yard (north of the South Yard). Fill material area inactive. Observed in stable condition. Vew to the east.



Photograph 8 – View of NYSDEC-approved fill materials placed above the Upland Site-wide cover system in the North Yard. Fill material area inactive. Observed in stable condition. Vew to the north.



Photograph 9 – View of NYSDEC-approved fill materials placed above the Upland Site-wide cover system in the North Yard. Fill material area inactive. Observed in stable condition. Vew to the northeast.



Photograph 10 – View of NYSDEC-approved fill materials placed above the Upland Site-wide cover system in the North Yard. Fill material area inactive. Observed in stable condition. Vew to the east.



Photograph 11 – View of RMW-3. Observed in operable condition. View to the north.



Photograph 12 – View of the asphalt pavement cover system in the North Yard (east of the former West Warehouse Revetment Stone). View to the west.



Photograph 13 – View of NYSDEC-approved fill materials placed above the Upland Site-wide cover system in the North Yard (south of Building 8). Fill material area inactive. Observed in stable condition. Vew to the west.



Photograph 14 – View of NYSDEC-approved fill materials placed above the Upland Site-wide cover system in the North Yard (east of Building 8). Fill material area inactive. Observed in stable condition. Vew to the north.

Former BICC Cables Site - NYSDEC Site No. C360051

Site-Wide Inspection Form

Demolition/Below Building Area

Date of Inspection: 8/7/18

Name of Inspector/Company: Scott Caporizzo/PS&S

Enter Yes or No in the spaces below. Please explain any "Yes" notes in the comments section below, and any actions to be taken.

1. 6-inch-thick pavement cover system

No — Any damage or evidence of bad housekeeping to the engineering control?

Yes — Any changes since the last inspection?
- See Comment #1 in comments section.

No — Is the engineering control **not** performing as designated in the SMP?

No — Is the engineering control **not** protective of human health and the environment?

2. North and Northwest Bulkheads

Yes — Any damage or evidence of bad housekeeping to the engineering control?
- See Comment #4 in comments section.

No — Any changes since the last inspection?

No — Is there any damage or distortion to the structure that supports the bulkhead?

Yes — Is the bulkhead damaging the North End asphalt cap?
- See Comment #4 in comments section.

No — Does the bulkhead move?

No — Is the engineering control not performing as designated in the SMP?

No — Is the engineering control not protective of human health and the environment?

3. Soil cover system

No — Any damage or evidence of bad housekeeping to the engineering control?

Yes — Any changes since the last inspection?
- See Comment #2 in comments section.

No — Is the engineering control **not** performing as designated in the SMP?

No — Is the engineering control **not** protective of human health and the environment?

4. Monitoring Wells

No Any damage to the concrete pad?

No Any damage to the manhole, including the cover?

No Is there debris and/or standing water in the manhole?

No Is there a loose fitting plug on the PVC riser?

Yes Is access to the well impeded in any way?
- See Comment #3 in comments section.

Yes Is the well screen and riser in bad condition and/or contains debris?
- See Comment #3 in comments section.

No Is the soil surrounding the well showing signs of erosion, settlement, or other condition that could compromise the well?

4. Additional areas identified during the inspection. Please list areas in the comments section, which engineering control is in place, and whether the engineering control is in conformance with the SMP and protective of human health and the environment.

Comments:

1. NYSDEC-approved fill material placed above the pavement cover system. Several parts of the pavement cover system are no longer visible for inspection. Per the SMP, Site-wide inspection will focus on the integrity of the overlying NYSDEC-approved fill materials.

2. NYSDEC-approved fill materials have been placed above the pavement cover system in in the South Yard. The limits of fill materials placed in the South Yard are identified in the Site Plan (Figure 1). Materials were observed in good condition.

3. RMW-2 was not sampled during the semi-annual groundwater monitoring events due to an obstruction in the well. RMW-2 will be decommissioned, replaced in kind, and sampled during the next reporting period (August 18, 2018 to August 17, 2019) in accordance with SMP protocol and will be documented in the subsequent 2019 PRR.

4. Damage to north and northwest bulkhead timber cap (from March 2018 barge incident). Sinkholes and horizontal displacement along the north bulkhead observed. Repairs made are documented in the photolog.



Photograph 1 – View of asphalt pavement cover system east of EPRI Building in the Demolition/Below Building Area. Area inactive and in stabile condition. Vew to the southwest.



Photograph 3 – Existing stockpile of excess "cushion sand" (NYSDEC-approved material used during the construction of the Underwater Multi-Layer SCS). View to the northwest.



Photograph 2 - View of asphalt pavement cover system along northern edge of the Demolition/Below Building Area. Area inactive and in stabile condition. Vew to the east.



Photograph 4 - View of asphalt pavement cover system along northern edge of the Demolition/Below Building Area. Area inactive and in stabile condition. Vew to the east.



Photograph 5 – View of asphalt pavement cover system in northeast corner of the Demolition/Below Building Area. Area inactive and in stabile condition. Vew to the south.



Photograph 7 – View of area east of the EPRI Building adjacent to the Restored Bulkhead and north of the Builidng 8 Existing Bulkhead. View to the southeast.



Photograph 6 – View of area east of the EPRI Building adjacent to the Restored Bulkhead. View to the south.



Photograph 8 – View of asphalt pavement cover system in the Demolition/Below Building Area south of the former pedestrian bridge from the BICC Parking Lot. Area inactive and in stabile condition. Vew to the east.



Photograph 9 – View of asphalt pavement cover system in the Demolition/Below Building Area east of the former Buillding 8 area. Vehicle track marks and sediment buildup observed. Vew to the south.



Photograph 11 - View of NYSDEC-approved fill materials placed above the Upland Site-wide cover system in the Demolition/Below Building Area east of the former Buillding 8 area. Fill material area inactive. Observed in stable condition. Vew to the southwest.



Photograph 10 – View of NYSDEC-approved fill materials placed above the Upland Site-wide cover system (left) and the asphalt pavement cover system (right) in the Demolition/Below Building Area east of the former Buillding 8 area. Fill material area inactive. Observed in stable condition. Vew to the south.



Photograph 12 – View of NYSDEC-approved fill materials placed above the Upland Site-wide cover system in the Demolition/Below Building Area east of the former Buillding 8 area. Fill material area inactive. Observed in stable condition. Vew to the north.



Photograph 13 – View of asphalt pavement cover system and perimeter controls (adjacent to the Metro North railroad) in the Demolition/Below Building Area. Area inactive and in stabile condition. Vew to the east.



Photograph 14 - View of asphalt pavement cover system and perimeter controls (adjacent to the Metro North railroad) in the Demolition/Below Building Area. Area inactive. Asphalt damage observed. Repairs are documented in the O&M documentation (Appendix D). Vew to the east.



Photograph 15 – View of asphalt pavement cover system and perimeter controls (adjacent to the Metro North railroad – covered in vegetation) in the Demolition/Below Building Area. Area inactive. Storage of railroad ties observed. Vew to the east.



Photograph 16 – View of concrete pads adjacent to Former Building 8 concrete slab. Observed in stable condition. View to the southwest.



Photograph 17 – View of concrete pads adjacent to Former Building 8 concrete slab. Observed in stable condition. View to the north.



Photograph 18 – View of Former Building 8 concrete slab. Observed in stable condition (protected from vehicle traffic from adjacent concrete slabs). View to the west.



Photograph 19 – View of concrete pads adjacent to Former Building 8 concrete slab. Observed in stable condition. View to the west.



Photograph 20 – View of Former Building 8 concrete slab. Observed in stable condition (protected from vehicle traffic from adjacent concrete slabs). View to the north.



Photograph 21 – View of concrete slab adjacent to the EPRI building southern wall. Observed in stable condition. View to the west.



Photograph 22 – View of RMW-2 located in Demolition/Below Building Area. RMW-2 was not sampled due to an obstruction within the riser. View to the south.

Former BICC Cables Site - NYSDEC Site No. C360051

Site-Wide Inspection Form

BICC Parking Lot

Date of Inspection: 8/7/18

Name of Inspector/Company: Scott Caporizzo/PS&S

Enter Yes or No in the spaces below. Please explain any "Yes" notes in the comments section below, and any actions to be taken.

1. Monitoring Wells

   No Any damage to the concrete pad?

   No Any damage to the manhole, including the cover?

   No Is there debris and/or standing water in the manhole?

   No Is there a loose fitting plug on the PVC riser?

   No Is access to the well impeded in any way?

   No Is the well screen and riser in bad condition and/or contains debris?

   No Is the soil surrounding the well showing signs of erosion, settlement, or other condition that could compromise the well?

2. Additional areas identified during the inspection. Please list areas in the comments section, which engineering control is in place, and whether the engineering control is in conformance with the SMP and protective of human health and the environment.

Comments: _____



Photograph 1 – View of BICC Parking Lot from the northeast corner. Perimeter fencing observed with minor damage (bent). View to the west.



Photograph 2 – View of BICC Parking Lot northeast corner. View to the northeast.



Photograph 3 – View of BICC Parking Lot from the north property boundary. View to the south.



Photograph 4 – View of BICC Parking Lot from the northwest corner. View to the east.



Photograph 5 – View of BICC Parking Lot northwest corner. View to the northwest.



Photograph 6 – View of BICC Parking Lot from the northwest corner. View to the south.



Photograph 7 – View of RMW-1 (observed is good condition).

TABLE A7.1 – EXISTING BULKHEADS		
EXISTING BULKHEAD	MATERIAL OF CONSTRUCTION	APPROXIMATE LENGTH
1. Building 8 Bulkhead	Vinyl sheet pile with timber waler and tieback system connected to the existing building foundation system	170 linear feet (LF)
2. Repaired Building 8 Bulkhead	Reinforced concrete existing Building 8 foundation system	300 lF
3. Non-Structural Containment Bulkhead	Composite vinyl and fiberglass sheet pile (Evercomp 26.1[FRP])	280 LF
4. Restored Bulkhead	Steel sheet pile	430 LF
5. Northwest Bulkhead	55'0" long steel sheet piling (ASTM A572 Grade 50) with waling and bracing (ASTM A36)	240 LF
6. Existing Concrete and Timber Bulkhead	Timber and concrete beams with deadman anchors	240 LF
7. South Yard Revetment Stone Shoreline	Revetment stone	1,030LF
8. Former West Warehouse Revetment Stone Shoreline	Revetment stone	150 LF

TABLE A7.2 – OPERATIONS & MAINTENANCE INSPECTION FORM
FORMER BICC CABLES SITE

Date of Inspection: **MONDAY – 6 AUGUST 2018**
Project Number: **05697.0006**
Inspector's Name: **Janos Szeman & Andrew Rush**
Conditions: **Good, Calm Seas**
Tide: **Low Tide at 1115 Hours**
Weather: **Sunny, High of 95º F and Low of 75º F**

Existing Bulkhead and Location	**Condition of Bulkhead**	**Visible Damage (Y/N)**	**Photo Number**	**Observations and Remarks**
1. Building 8 Bulkhead	Good Condition	No	Refer to Log	Note 1
2. Repaired Building 8 Bulkhead	Good Condition	No	Refer to Log	Note 2
3. Non-Structural Containment Bulkhead	Good Condition	No	Refer to Log	Note 3
4. Restored Bulkhead	Good Condition	No	Refer to Log	Note 4
5. Northwest Bulkhead	Good Condition	Yes, Timber Cap Only	Refer to Log	Note 5
6. Existing Concrete and Timber Bulkhead	Poor Condition	Yes, Sinkholes & Horizontal Movement	Refer to Log	Note 6
7. South Yard Revetment Stone Shoreline	Good Condition	No	Refer to Log	Note 7
8. Former West Warehouse Revetment Stone Shoreline	Good Condition	No	Refer to Log	Note 8

NOTES:

1. The Building 8 Vinyl Sheet Pile Bulkhead was observed to be in good condition and continues to serve as an engineering control.
2. The Repaired Building 8 Vinyl Sheet Pile Bulkhead was observed to be in good condition and continues to serve as an engineering control.
3. The Non-Structural Containment Bulkhead was observed to be in good condition and continues to serve as an engineering control.
4. The Restored Bulkhead was observed to be buried under Site soils; where, no differential settlement and scour was observed. Therefore, the Restored Bulkhead appeared to be in good condition and continues to serve as an engineering control.
5. The Northwest Bulkhead was observed to be in good condition and continues to serve as the waterfront stabilization measure engineering control. The Northwest Bulkhead continues to be protective of human health and the environment. The Northwest Bulkhead steel sheet piles and associated tie back rod bolts were observed at the surface to be stable and no apparent loss of structural integrity was observed from the March 3, 2018 Barge 211 accidental hit. Small, minor scrapes on the top of the Northwest Bulkhead steel sheet pile were observed on the northern exposure. Larger, minor scrapes on the face and top of the Northwest Bulkhead steel sheet pile were observed on the western exposure. Refer to the attached photographs. As noted on the attached photographs, the August 6, 2018 on-water Site visit revealed that the Barge 211 apparently first struck the Northwest Exterior Corner of the Northwest Bulkhead and then shifted and moved along the western exposure of the Northwest Bulkhead. The initial Barge 211 contact appeared to have lifted the timber boardwalk cap on the Northwest Bulkhead northern exposure. Then, the Barge 211 contact appeared to run along the top of the Northwest Bulkhead western exposure which resulted in the ripping and splintering of the timber boardwalk cap. The timber boardwalk cap on top of the Northwest Bulkhead was severely damaged by the March 3, 2018 Barge 211 accident as noted on the attached photographs. The damaged timber boardwalk cap has not impacted the structural integrity of the Site asphalt pavement Cover System. The damaged timber boardwalk cap should be monitored to confirm that the Northwest Bulkhead and the Site asphalt pavement Cover System are in good condition.
6. The Northern Concrete Bulkhead was observed to be in fair condition; where, several small sinkholes and one large sinkhole was observed along the top of the concrete beam Bulkhead. The large sinkhole was observed to have resulted in the loss of structural integrity of an approximately 6-foot-wide section of the Northern Concrete Bulkhead. The location of the large sinkhole coincided with the existing 8-inch-diameter black corrugated plastic drainage pipe and outfall to the Hudson River.
7. The South Yard revetment stone was observed to be stable, in good condition and continues to serve as a waterfront stabilization measure engineering control.
8. The West Warehouse revetment stone was observed to be stable, in good condition and continues to serve as a waterfront stabilization measure engineering control.



Photograph 1 – View of revetment stone along South Yard western perimeter. Observed in stable condition. View to the south.



Photograph 2 – View of revetment stone along South Yard western perimeter. Observed in stable condition. View to the south.



Photograph 3 – View of revetment stone along South Yard western perimeter. Observed in stable condition. View to the south.



Photograph 4 – View of revetment stone along North Yard western perimeter. Observed in stable condition. View to the south.



Photograph 5 – View of revetment stone along North Yard western perimeter (former West Warehouse) and southern Building 8 Existing Bulkhead. Observed in stable condition. View to the north.



Photograph 6 – Debris observed on edge of revetment stone along North Yard western perimeter (former West Warehouse). View to the northeast.



Photograph 7 – View of Building 8 Bulkhead along western edge of Building 8 concrete foundation. Observed in stable condition. View to the east.



Photograph 8 – View of Building 8 Bulkhead along western edge of Building 8 concrete foundation. Observed in stable condition. View to the south.



Photograph 9 – View of Building 8 Bulkhead timber boardwalk damage. No impacts the structural integry of the bulkhead observed. View to the south.



Photograph 10 – View of the northern Building 8 Existing Bulkhead and Non-Structural Containment Bulkhead. Observed in stable condition. View to the west.



Photograph 11 – View of the northern Building 8 Existing Bulkhead. Observed in stable condition. View to the southeast.



Photograph 12 – View of the Non-Structural Containment Bulkhead. Observed in good condition. View to the north.



Photograph 13 – View of the Restored Bulkhead (majority covered in soil). Observed in good condition. View to the west.



Photograph 15 – View of the northwest corner of the Northwest Bulkhead. Observed in good condition. View to the southeast.



Photograph 14 – View of the western edge of the Northwest Bulkhead. Observed in good condition. View to the southeast.



Photograph 16 – View of the Northwest Bulkhead timber cap damage along western edge. View to the northeast.



Photograph 17 – View of the northern edge of the Northwest Bulkhead. Observed in good condition. View to the southeast.



Photograph 18 – View of the Existing Concrete and Timber Bulkhead. Observed in poor condition (heavy weathering and sink holes). Repairs made to sink holes documented in the O&M section.

Former BICC Cables Site - NYSDEC Site No. C360051

Site-Wide Inspection Form

OU-2 (DCU Area 2B)

Sediment Cover System

Date of Inspection: 8/7/18

Name of Inspector/Company: Janos Szeman/PS&S; Scott Caporizzo/PS&S

Enter Yes or No in the spaces below. Please explain any "Yes" notes in the comments section below, and any actions to be taken.

1. Sediment cover system

No Any damage or evidence of bad housekeeping to the engineering control?

Yes Any changes since the last inspection?

- Refer to the SmarTec Measurement Report

No Is the engineering control **not** performing as designated in the SMP?

No Is the engineering control **not** protective of human health and the environment?

4. Additional areas identified during the inspection. Please list areas in the comments section, which engineering control is in place, and whether the engineering control is in conformance with the SMP, and protective of human health and the environment.

    1. Refer to bathymetric survey and SmarTec DiTeSt Measurement Report.



Photograph 1 – View of H-pile, H-pile cap, and conduit containing fiber optic cable (connecting control panel to load cell). No damage observed to conduit during under EPRI building inspection.



Photograph 3 – View of fiber optic (remote sensing cable) control panel located within the EPRI Building interior. Control panel observed in good condition.



Photograph 2 – View of H-pile, H-pile cap, and conduit containing fiber optic cable (connecting control panel to load cell). No damage observed to conduit during under EPRI building inspection.



Photograph 4 – View of SmarTec DiTeSt Reading Unit (used to obtain measurements from the fiber optic cable). Refer to SmarTec Measurement Report for additional information.

APPENDIX C

Multi-Layer SCS Fiber Optic Measurement and Bathymetric Survey Results

DiTeSt Monitoring Project

One Point Street, Inc.
Former BICC Cables Site
OU-2 Area
Multilayer Sediment Cover System
City of Yonkers
Westchester County, New York

Measurement Report from
SMARTEC SA

Client:	One Point Street, Inc. Former BICC Cables Site OU2 Area Multilayer Sediment Cover System City of Yonkers Westchester County, New York
Mandate:	14-3284
Document date:	17.08.2018
Document author:	Eng. Riccardo Belli (RBe)
Type of document:	Measurement report
Technical responsibility :	Eng. Riccardo Belli (RBe)
Sales responsibility:	Mr. Roberto Walder (RWa) Mrs. Polly Brown (PBr)
Revisions:	17.08.2018 Revision 0: RBe first issue 23.08.2018 Revision 1: PBr, FZa for submittal

Attachment: 3284 - Installation and baseline report -v2
3284 - 2017 measurement campaign - v1

This report contains proprietary information. Please do not reveal any of its contents to anyone not directly responsible for using it without first obtaining permission from SMARTEC SA and PS&S. For a direct support please contact SMARTEC SA.

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List of Revisions

Revision Index	Date (mm.dd.yyyy)	Responsible	Descritpion
0	17.08.2018	RBe	First issue
1	23.08.2018	PBr, FZa	For submittal

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Table 3a	19	SCS Remote Sensing System HG cable measurement – Absolute
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List of Attachments

Attachment ID	Attachment Title
1	3284 - Installation and baseline report -v2
2	3284 - 2017 measurement campaign - v1

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Note:

ROCTEST/SMARTEC sales representative(s) will be contacted for the rental and use of the DiTeSt System Reading Unit. The Site Management Plan (SMP) contractor must budget a minimum of **1 month, with an executed service contract**, for the rental order and delivery of the DiTeSt System Reading Unit to the site for the required, routine SMP SCS remote sensing system measurements.

Brief Introduction and History

The SCS was installed by OPS between November 2015 and February 2016 and commissioning of this DiTeSt system was completed on 12 August 2016.

As identified in the SMP, this DiTeSt system will be used as a tool to monitor the top of the SCS and will allow the SMP Designated Engineering Control Inspection Engineer to study the long-term integrity of the SCS (refer to Attachment A for the SCS Record of Construction plans, and to Attachment B for the SCS-03 and SCS -04, prepared by PS&S and dated 19 August 2016).

This DiTeSt system is managed by Smartec SA and Roctest Ltd; where Smartec is responsible for the manufacturing, commissioning, reading, and repair of the DiTeSt system and Reading Unit and Roctest is responsible for the rental, scheduling of said rental, and general communication with the client. During the 2015 and 2016 design, permitting, and construction of the SCS and the associated SCS Remote Sensing System (DiTeSt System), Roctest and Smartec worked with OPS and PS&S. For the long-term SMP monitoring of the SCS, Roctest and Smartec will work with the property owner (i.e. OPS or OPS' assigned successor) and the designated SMP Engineering Control Inspection Engineer.

The site specific DiTeSt system and this Technical Report were developed for the exclusive use of OPS and OPS' assigned successor and the designated SMP Engineering Control Inspection Engineer.

1 Cable Integrity / Continuity Check

The second measurement campaign after the DiTeSt system commissioning was carried out the 7th of August 201 by Mr. Fabio Zanini, SMARTEC SA, under the supervision of PS&S representatives Mr. Janos M. Szeman, Mr. Scott Caporizzo.

Within the measurement campaign routine the first carried out activity was cable integrity / continuity check. In order to carry out a quick but reliable test a red laser fault locator was used: all the sensing lines were found operational and with a good light intensity.

2 Measurement campaign _ 2nd campaign

The aim of this measurement campaign is to assess the stability of the former BICC cable manufacturing building. This is checked through the strain analysis carried out on the sensing loop installed at the site, by checking that no excessive strain has been experienced by the underwater sections where the most sensitive part of the line is installed.

In order to provide an easy and comprehensive analysis the installation layout, HG cable layout and connection scheme are reported below in Figure 1 and Figure 2.

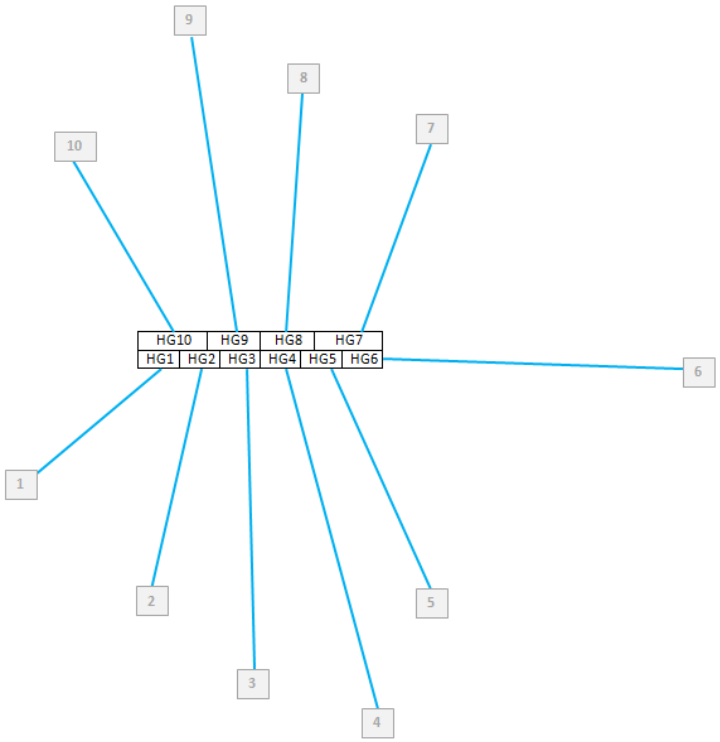


Figure 1: *schematic, single wire, HG cable layout*

A total of 10 load cells were installed using HG cable. For each load cell, an HG cable loop is installed. Both ends of the sensing loop end at HG splice box.

NOTE: A certain HG cable extra length was left below each HG splice box; this will allow an easy maintenance in case of necessary maintenance or re-splicing operation.

NOTE: A suitable extra length of HG cable, approximately 1 meter, was left in each junction box used to protect the transition between the building floor and the underwater section. This extra length was left with the main aim to leave a margin in case a load cell drastically changes its position, due to an external mechanical action. Possible location change can, in fact, induce some strain and traction on the HG cable that is not supposed to be damaged.

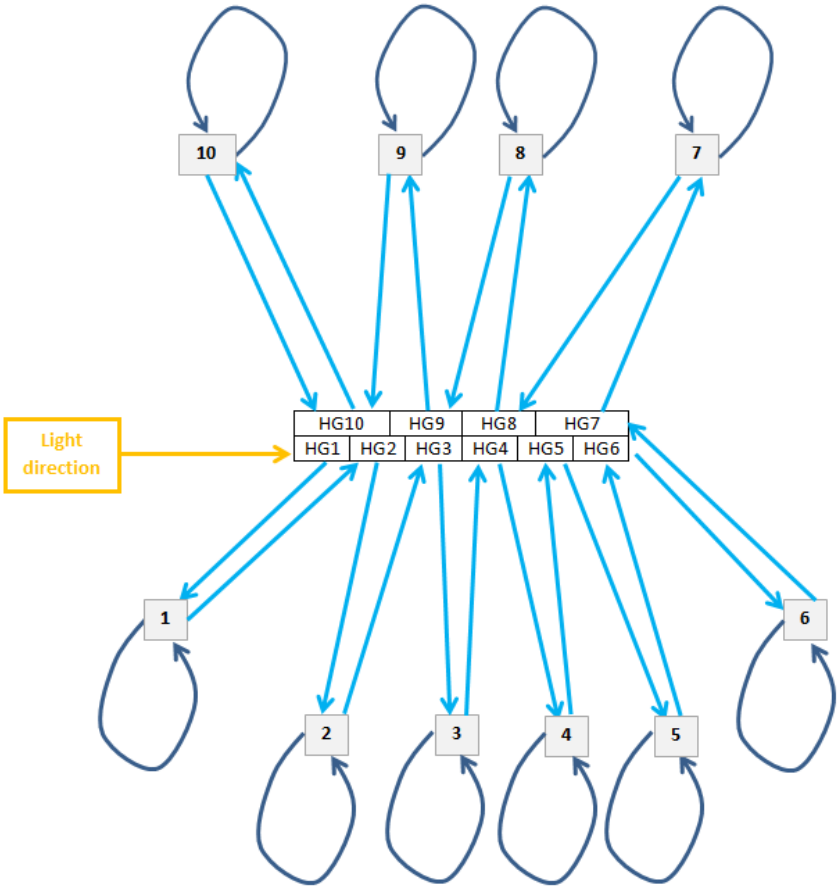


Figure 2: *schematic HG cable connection scheme with light direction*

For sake of simplicity during the design and installation phases of the system, 10 independent sensing lines were installed, one for each load cell. In a further stage by means of fusion splicing, these 10 sensing loops were connected together, in series, to provide a single, long, sensing loop. The main advantage of this configuration was to minimize the number of optical channels needed to scan all the sensors, and to measure them simultaneously in a single scan.

During the first measurement campaign a detailed analysis of the data enabled refinement of the coordinate system drafted during the system commissioning. In detail, the underwater areas have been clearly defined through the data analysis. In this phase of the project a coordinate system table with progressive lengths has been defined to provide an effective means of comparison for the next measurement campaigns.

Table 1: DiTeSt system coordinate system _ as built

Sensor ID	Underwater start [m]	Underwater end [m]
1	21	34
2	78	92
3	142	162
4	219	235
5	286	306
6	341	361
7	400	418
8	467	484
9	547	560
10	617	628

The obtained results are in good agreement with the installation report.

In order to better present the results obtained during the first measurement campaign a small review of the measurement technique of the sensing line is necessary. In order to have a complete view of the system, and provide several means of comparison, different sensing layouts and sets of parameters were defined. In particular:

- 2, different sensing layouts:

    i. *Loop configuration* → 2, fibers of the HG cable are spliced together in HG10 to create a loop, forth and back, with the existing sensing line.
    ii. *Single End configuration* → light is injected in one fiber of the HG cable and collected in HG10 at the far end of the sensing loop.

There is not a big difference between these 2 configurations except the fact that when measuring in *loop* each load cell is measured 2 times in a single scan, while with the *single end* only once.

- 2 different set of parameters are defined:

    i. *1 m spatial resolution* → the sensing line is scanned with a light pulse of 1 m. Sampling resolution is set to 0.4 m to provide an oversampling factor of 2.5.
    ii. *0.5 m spatial resolution* → the sensing line is scanned with a light pulse of 0.5 m. Sampling resolution is set to 0.2 m to provide an oversampling factor of 2.5.

The main difference between the 2 sets of parameters is the capability to discriminate events / occurrences that involve very short sections of HG cable. From the theory and the physics beyond the DiTeSt, a smaller spatial resolution allows discrimination of short events acting on the cable and localizes them more precisely. As a drawback, the smaller the spatial resolution, the higher the intrinsic measurement noise / statistic fluctuations are along the measured profile.

During the 1st measurement campaign the same system configuration and parameter sets used during the commissioning were used with no modification-

In Table 2, the sensitive measurement parameters are summarized.

Table 2: measurement configuration, parameters resume

	OPS loop 1	**OPS loop .5**	**OPS Single end 1**	**OPS Single end .5**
Sensor length [m]	2000	2000	1100	1100
Frequency start [GHz]	10.7	10.7	10.7	10.7
Frequency end [GHz]	10.9	10.85	10.9	10.9
Frequency step [GHz]	0.001	0.001	0.001	0.001
Spatial resolution [m]	1	0.5	1	0.5
Sampling Interval [m]	0.4	0.2	0.4	0.2

2.1 Results and data interpretation

The analysis was mainly focused on analyzing the underwater sections that, in facts, represent the *load cells system.*
The goal is to check if big deviations are detected over these areas.

Before presenting the data some general remarks:

- When measured through the DiTeSt, both sensor layouts have shown an optical signal absolutely in line with the one measured during system commissioning. The analysis of the power traces show that the signal amplitude / power has not deviated from its original value. This is already a good indicator that no major forces have acted on the cable and no additional attenuation was induced by mechanical action.

- For each measurement configuration, a set of 3 measurements were taken. The signal residual measured on this set is in line with the expected system performances and therefore is enough to assess the coherence and reliability of the collected data.

- The frequency response measured over the cable *ground sections* are coherent with the environmental temperature difference measured during system commissioning and the 1st measurement.

In conclusion all the above listed points are a clear indicator of the reliability of the results provided in this report.

In order to offer a solid base to support our analysis, calibration results of the HG cables are reported. The aim is to compare the order of magnitude of the strain evolution under laboratory known conditions and what was measured during the 1st campaign.

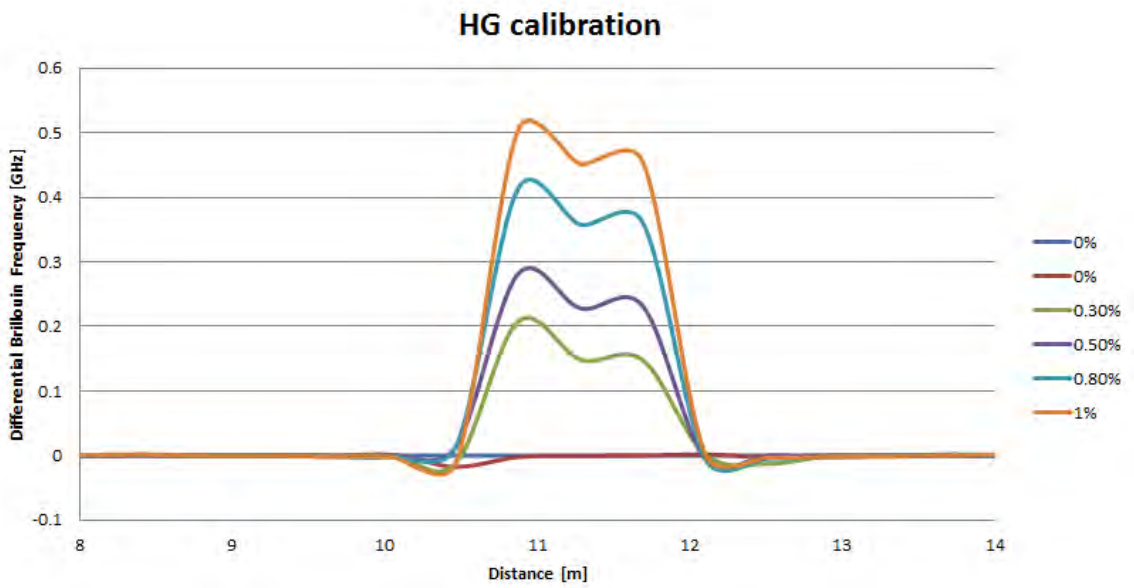


Figure 3: *Brillouin Frequency evolution during HG calibration*

Figure 3 shows the Brillouin Frequency evolution during HG calibration: the HG sensing cable is subject to known elongation, expressed in %, over a 1 m section. The frequency response evolution is recorded and analyzed to define a calibration coefficient used to transform the frequency information into a strain value.

In the section below, the method and approach used to provide data interpretation is presented. The 1st measurement campaign analysis is described step by step for the first case and repeated for the remaining others.

- 2 set of measurements, 3 measurements for each set, are compared. The 1st set corresponds to the system commissioning and represents our measurement baseline, August 2016. The 2nd set corresponds to the measurement campaign carried out in August 2017, Figure 4.

- Differential analysis is carried out: as per definition, the baseline represents the reference / zero measurement to which all the following measurements will be compared, Figure 5.

A careful analysis shows how most of the sensing line measured in August 2017 shows a shift of about 0.02 GHz with respect to the baseline, with a few other smaller sections appearing to have a very similar value to the baseline, Figure 6 . The differential analysis clearly shows how, at these distances, the deviation / shift between baseline and 1st measurement appear to be null or very close to 0, Figure 7.

From a quick correlation between distances and Frequency shift it is possible to assess:

a. Ground cable, not of interest in this monitoring project, does show a shift in the order of 0.02 GHz. This shift can be explained with the different environmental temperature at the moment of the 2nd measurement campaign. August 2016 was much warmer than August 2017, at least during the test day.

b. The section where the absolute trend is similar and the differential analysis shows a negligible variation, corresponds to the underwater sections.

c. The frequency variation measured along the underwater sections is much smaller than the variations measured during HG calibration. This is clear proof that the system can be considered in a stable state, not having deviated significantly since the baseline measurement campaign.

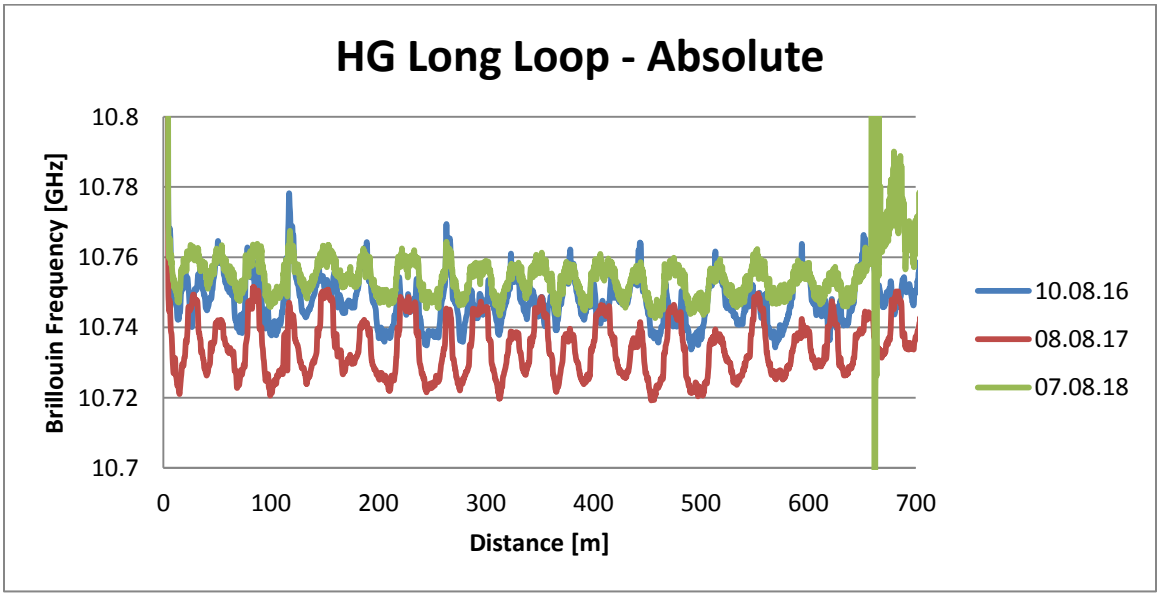


Figure 4: *Brillouin Frequency along the sensing line _ loop configuration 0.5 m spatial resolution*

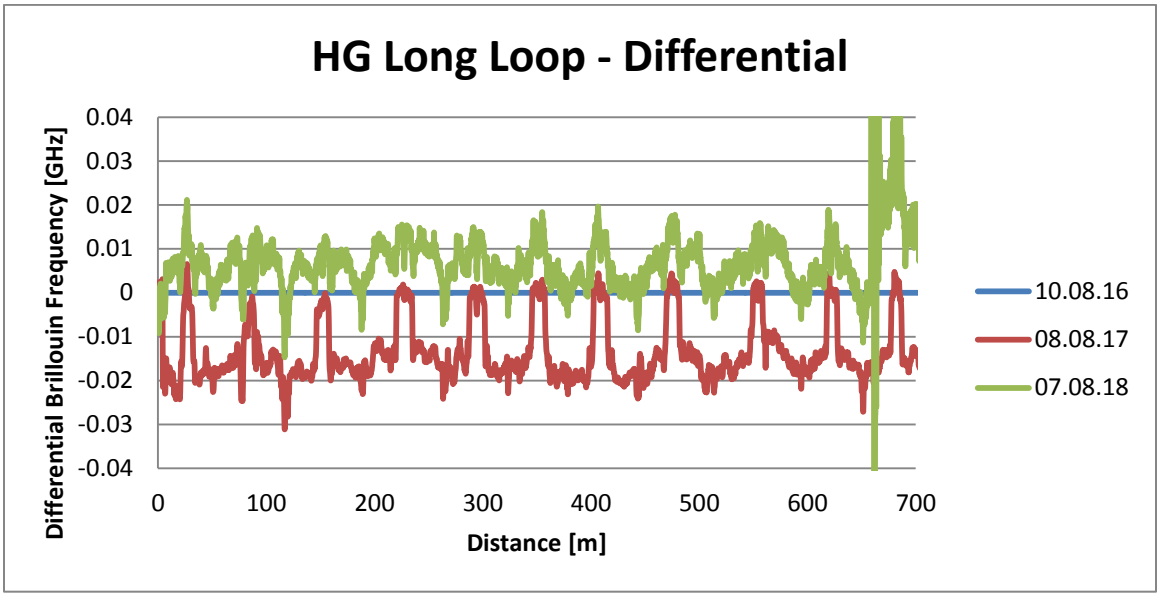


Figure 5: *differential Brillouin Frequency along the sensing line _ loop configuration 0.5 m spatial resolution*

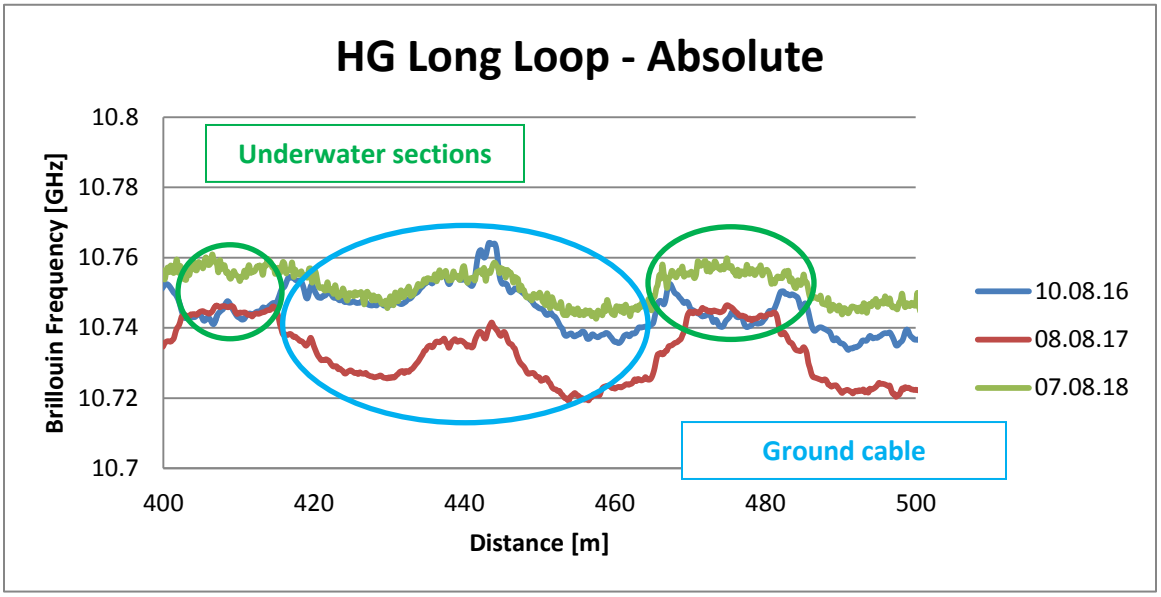


Figure 6: *detail of Brillouin Frequency along the sensing line _ loop configuration 0.5 m spatial resolution*

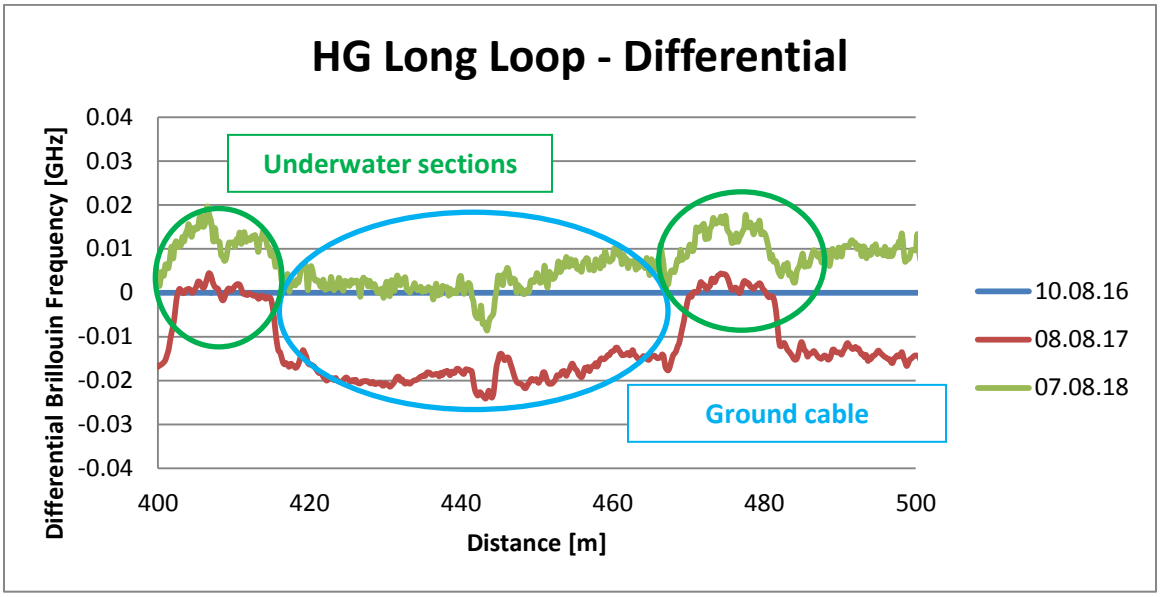


Figure 7: *detail of differential Brillouin Frequency along the sensing line _ loop configuration 0.5 m spatial resolution*

The approach described above is then repeated for all the 2 measurement configurations. All the collected data are in good agreement and lead to the main conclusion that the system appears to be in a stable state with no significant variations from the baseline reading.

2.1.1 OPS loop 1 → Loop configuration _ 1 m spatial resolution

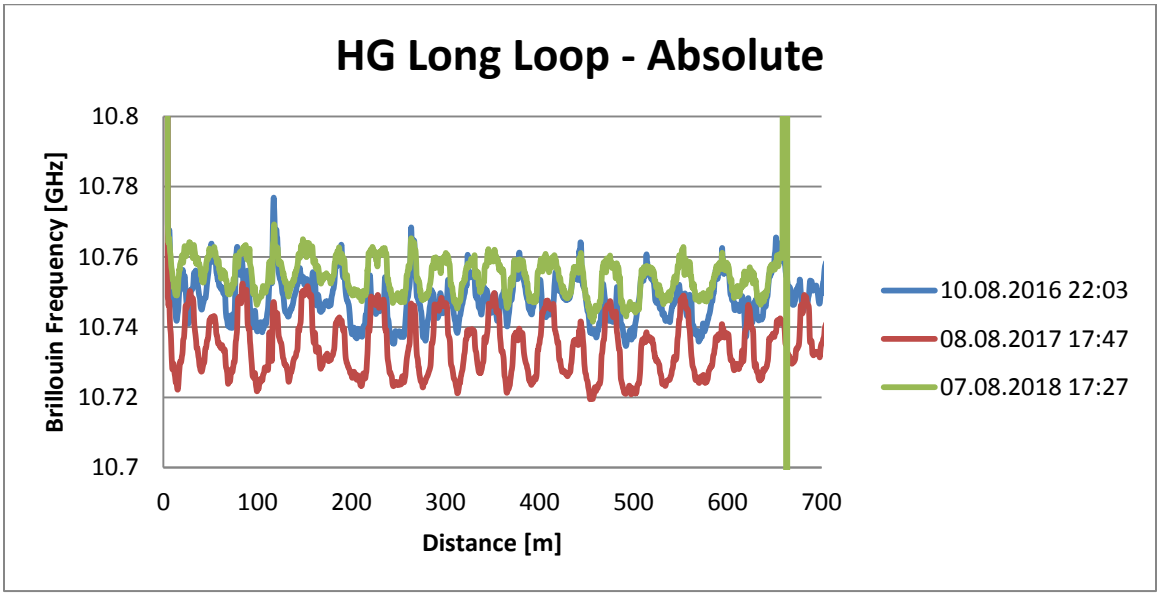


Figure 8: *Brillouin Frequency along the sensing line _ loop configuration 1 m spatial resolution*

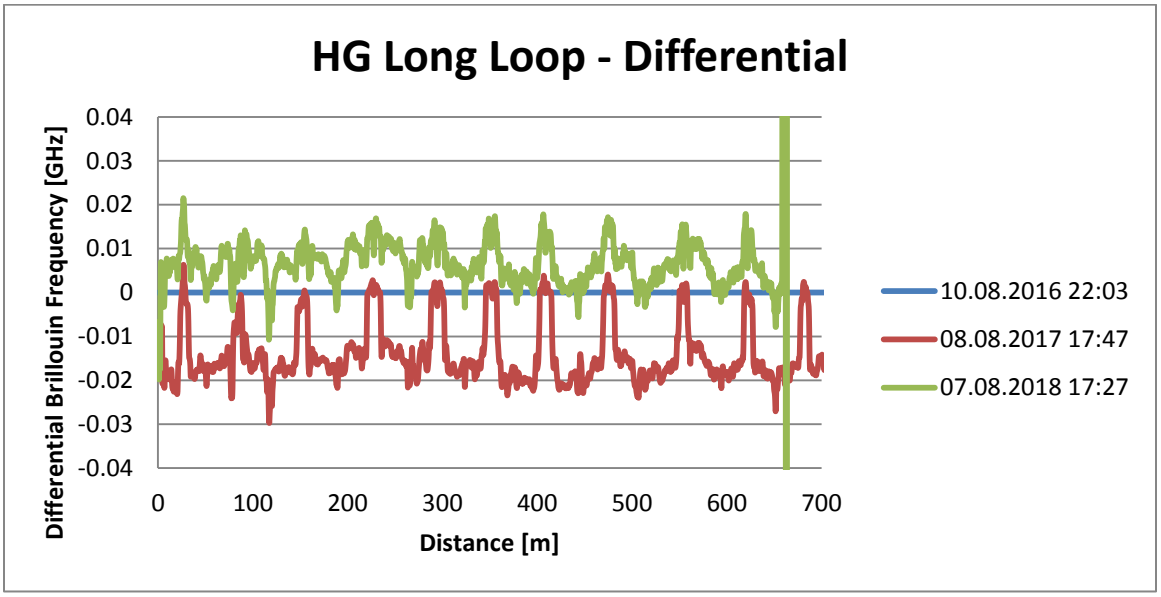


Figure 9: *differential Brillouin Frequency along the sensing line _ loop configuration 1 m spatial resolution*

2.1.2 OPS loop .5 → Loop configuration _ 0.5 m spatial resolution

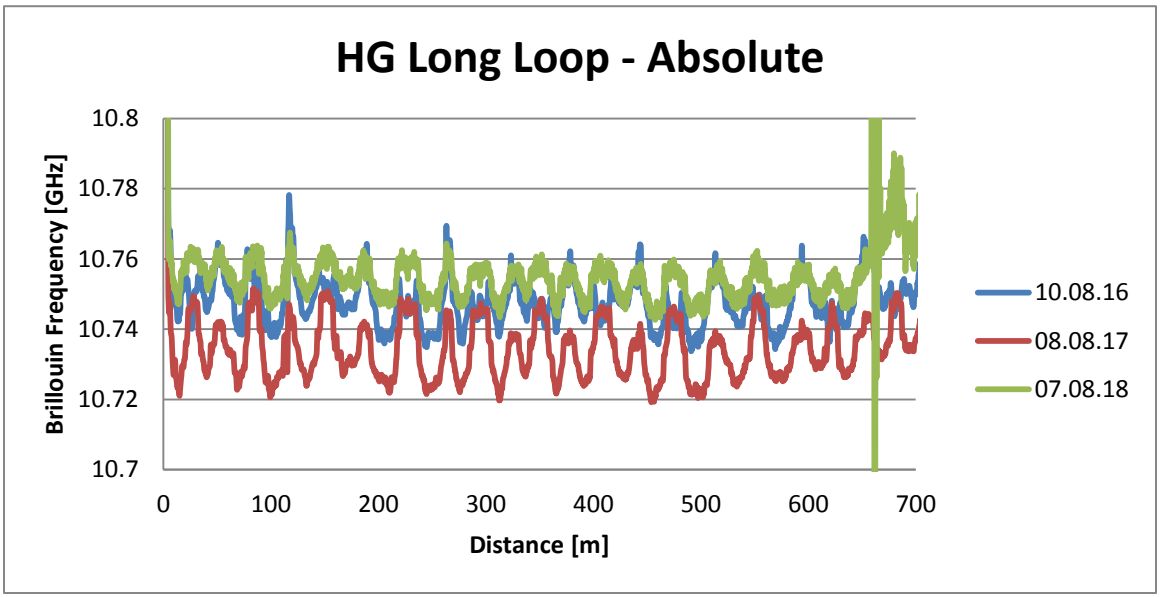


Figure 10: *Brillouin Frequency along the sensing line _ loop configuration 0.5 m spatial resolution*

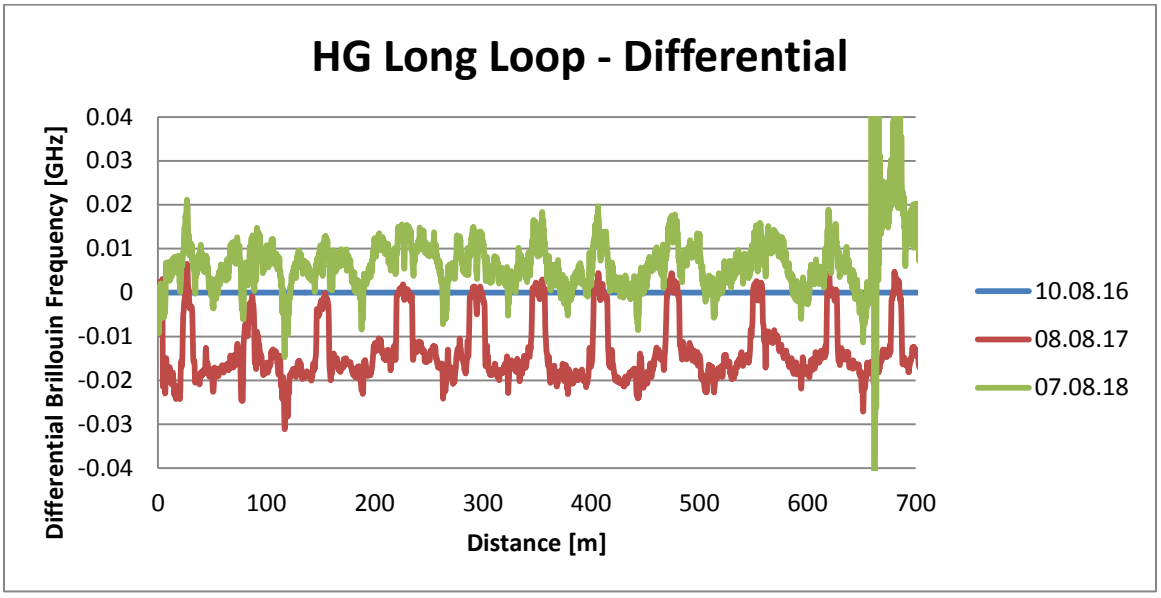


Figure 11: *differential Brillouin Frequency along the sensing line _ loop configuration 0.5 m spatial resolution*

3 Conclusion & Next Steps

The scope of the work, for which SMARTEC and ROCTEST were requested at site, has been fulfilled.
The 2nd measurement campaign after system installation, commissioning and baseline reading have been carried out.
The data analysis leads to the main conclusion that the load cell system is actually in a nearly stable state, because no major strain is occurring over the piles where the sensors have been installed. In particular we can assess:

a. Ground cable does show a close correspondence to the baseline. This close correspondence and the supposition that no further mechanical forces are acting on the cables, makes us think this measurement campaign has been carried out at a similar temperature to the one when the baseline was taken. In this scenario, based on this assumption, we can assess that the deviation measured in the underwater section, can be, in fact, purely mechanical.
b. The sections of HG sensing cable do show a shift / deviation from the baseline that can be considered of small importance and typically limited to < 20MHz. Based on that assumption made at point "a", we can think about a purely mechanical effect that, nevertheless remains very limited if compared to the calibration chart presented at page 12 in Figure 3.
c. The frequency variation measured along the underwater sections is much smaller than the variations measured during HG calibration. This is a clear proof the system can be considered in a stable state, not having deviated significantly since the baseline measurement campaign.

Thanks to the multiple system configurations it has been possible to compare different data sets that led to very similar conclusions: the data collected with the same fiber layout but different spatial resolution appears to be coherent with each other.

Nevertheless, during this 2nd measurement campaign it was not possible to collect data through the Single Ended Sensor. Despite the several attempts no measurement was taken due to an unusual attenuation of the optical fiber. Despite the fact that a very weak red light was exiting the far end of the sensing loop, no measurement was possible using the DiTeSt reading unit. A preliminary analysis of the occurrence has been carried out directly at site by means of a red laser fault locator. As a result, it seems the issue is limited to cable 9. This means the cable that goes from box HG9 to box HG10, that is to say, the monitoring cable looking over load cell 9. As a corrective action a more dedicated OTDR scan can be run to evaluate where exactly is the location of the problem to allow the PS&S and SMARTEC team to, if and where possible, a visual inspection to determine the nature of the issue.
In a second stage, if the issue is confirmed to be on the cable 9, the same section can be replaced by means of another one, or more simply, only for the single ended configuration, that section can be excluded by means of a proper rerouting / splicing.

As a final and general conclusion we can claim the system has not suffered major variations with respect to the baseline.

On the basis of the collected results, it is now possible to fill in the evolution Table 3a and 3b proposed in the document *3284 - Installation and baseline report -v2 (Table 4a and 4b).*

Table 3a: SCS Remote Sensing System HG cable measurement – Absolute [GHz]

SCS Remote Sensing System - Absolute						
Sensor ID	**Baseline measurement 08.12.2016**	**Measure 1 08.08.2017**	**Measure 2 08.07.2018**	**Measure 3 mm.dd.yyyy**	**Measure 4 mm.dd.yyyy**	**Measure 5 mm.dd.yyyy**
1	10.740	10.747	10.761			
2	10.752	10.750	10.761			
3	10.751	10.750	10.759			
4	10.747	10..749	10.756			
5	10.749	10.745	10.756			
6	10.748	10.748	10.757			
7	10.746	10.746	10.755			
8	10.743	10.744	10.757			
9	10.749	10.746	10.757			
10	10.744	10.744	10.753			

Table 3b: SCS Remote Sensing System HG cable measurement – Relative [MHz]

SCS Remote Sensing System - Relative						
Sensor ID	**Baseline measurement (bl) 08.12.2016**	**Measure 1 08.08.2017 (Meas 1 – bl)**	**Measure 2 08.07.2018 (Meas 2 – bl)**	**Measure 3 mm.dd.yyyy (Meas 3 – bl)**	**Measure 4 mm.dd.yyyy (Meas 4 – bl)**	**Measure 5 mm.dd.yyyy (Meas 5 – bl)**
1	0	+7	+21			
2	0	-2.5	+9			
3	0	-1.3	+8			
4	0	+1.5	+9			
5	0	-3.6	+7			
6	0	+0.8	+9			
7	0	0	+9			
8	0	+1	+14			
9	0	-2.7	+8			
10	0	+0.5	+9			

TABLE SMP PRR # 01 - OU-2 AREA MULTI-LAYER SCS TOP OF SCS ARMOR PROTECTION LAYER BATHYMETRIC SURVEY MEASUREMENTS

Multi-Layer SCS Bathymetric Survey Location	EPRI Building Finished Floor Elevation	1-Feb-16			8-Aug-16			8-Aug-17							7-Aug-18								Remarks
		ARMOR PROTECTION STONE Multi-Layer SCS Bathymetric Survey Field Observations		Top of SCS Armor Protection Stone Bathymetry	ARMOR PROTECTION STONE Multi-Layer SCS Bathymetric Survey Field Observations	Top of SCS Armor Protection Stone Bathymetry	Difference Between Last Measurement	ARMOR PROTECTION STONE Multi-Layer SCS Bathymetric Survey Field Observations		Observed Depth to Top of SCS Armor Protection Stone with respect to EPRI Building Finished Floor Elevation			Top of SCS Armor Protection Stone Bathymetry	Difference Between Last Measurement	ARMOR PROTECTION STONE Multi-Layer SCS Bathymetric Survey Field Observations		Observed Depth to Top of SCS Armor Protection Stone with respect to EPRI Building Finished Floor Elevation			Top of SCS Armor Protection Stone Bathymetry	Difference Between Last Measurement	
	Feet NAVD 88	DATE	TIME	Feet NAVD 88	DATE	Feet NAVD 88	Feet	DATE	TIME	Feet	Inch	Feet	Feet NAVD 88	Feet	DATE	TIME	Feet	Inch	Feet	Feet NAVD 88	Feet	
2B-B06	7.16	2/1/2016	1315	-6.59	8/8/2016	-6.94	0.35	8/8/2017	917	14	0 0	14	-6.84	-0.1	8/7/2018	0930	14	1 0.1	14.09	-6.93	0.09	(1), (2) and (3)
2B-B07	7.21	2/1/2016	1145	-5.88	8/8/2016	-6.23	0.35	8/8/2017	918	13	10 0.8	13.84	-6.63	0.4	8/7/2018	0935	13	10 0.8	13.84	-6.63	0	(1), (2) and (3)
2B-B08	7.21	2/1/2016	1137	-6.4	8/8/2016	-6.52	0.12	8/8/2017	919	14	0 0	14	-6.79	0.27	8/7/2018	0940	14	0 0	14	-6.79	0	(1), (2) and (3)
2B-B09	7.18	2/1/2016	1131	-6.66	8/8/2016	-6.88	0.22	8/8/2017	920	13	7 0.6	13.59	-6.41	-0.47	8/7/2018	0945	13	8.25 0.7	13.69	-6.51	0.1	(1), (2) and (3)
2B-B10	7.23	2/1/2016	1126	-6.24	8/8/2016	-6.73	0.49	8/8/2017	921	13	11 0.9	13.92	-6.69	-0.04	8/7/2018	0950	13	11.75 1	13.98	-6.75	0.06	(1), (2) and (3)
2B-B11	7.17	2/1/2016	1110	-4.29	8/8/2016	-4.49	0.2	8/8/2017	922	11	10 0.8	11.84	-4.67	0.18	8/7/2018	0955	11	10.5 0.9	11.88	-4.71	0.04	(1), (2) and (3)
2B-B12	7.19	2/1/2016	1319	-10.11	8/8/2016	-10.59	0.48	8/8/2017	927	18	1.5 0.1	18.13	-10.94	0.35	8/7/2018	1000	18	2.25 0.2	18.19	-11	0.06	(1), (2) and (3)
2B-B13	7.19	2/1/2016	1140	-10.38	8/8/2016	-10.33	-0.05	8/8/2017	1017	17	10.5 0.9	17.88	-10.69	0.36	8/7/2018	1005	17	11.25 0.9	17.94	-10.75	0.06	(1), (2) and (3)
2B-B14	7.21	2/1/2016	1135	-10.25	8/8/2016	-10.5	0.25	8/8/2017	1020	18	1 0.1	18.09	-10.88	0.38	8/7/2018	1010	18	1.75 0.1	18.15	-10.94	0.06	(1), (2) and (3)
2B-B15	7.18	2/1/2016	1128	-11.16	8/8/2016	-11.16	0	8/8/2017	1021	18	3 0.3	18.25	-11.07	-0.09	8/7/2018	1015	18	1.5 0.1	18.13	-10.95	-0.12	(1), (2) and (3)
2B-B16	7.18	2/1/2016	1320	-13.82	8/8/2016	-14.34	0.52	8/8/2017	1041	21	10 0.8	21.84	-14.66	0.32	8/7/2018	1020	21	11.25 0.9	21.94	-14.76	0.1	(1), (2) and (3)
2B-B17	7.16	2/1/2016	1323	-13.32	8/8/2016	-13.98	0.66	8/8/2017	1042	21	6.5 0.5	21.55	-14.39	0.41	8/7/2018	1025	21	6.75 0.6	21.57	-14.41	0.02	(1), (2) and (3)
2B-B18	7.16	2/1/2016	1328	-11.38	8/8/2016	-11.85	0.47	8/8/2017	1044	19	3 0.3	19.25	-12.09	0.24	8/7/2018	1030	19	3.75 0.3	19.32	-12.16	0.07	(1), (2) and (3)
2B-B20	7.16	2/1/2016	1347	-16.36	8/8/2016	-16.57	0.21	8/8/2017	1102	23	6 0.5	23.5	-16.34	-0.23	8/7/2018	1035	23	7 0.6	23.59	-16.43	0.09	(1), (2) and (3)
2B-B21	7.15	2/1/2016	1346	-15.02	8/8/2016	-15.51	0.49	8/8/2017	1104	23	1 0.1	23.09	-15.94	0.43	8/7/2018	1040	23	1.75 0.1	23.15	-16	0.06	(1), (2) and (3)
2B-B22	7.12	2/1/2016	1345	-14.71	8/8/2016	-15.04	0.33	8/8/2017	1117	22	4 0.3	22.34	-15.22	0.18	8/7/2018	1045	22	5.25 0.4	22.44	-15.32	0.1	(1), (2) and (3)
2B-B23	7.21	2/1/2016	1341	-15.04	8/8/2016	-15.24	0.2	8/8/2017	1118	22	9 0.8	22.75	-15.54	0.3	8/7/2018	1050	22	10.5 0.9	22.88	-15.67	0.13	(1), (2) and (3)
2B-SW01	7.4	2/5/2016	1306	1.2	8/8/2016	0.55	0.65	8/8/2017	1132	7	4 0.3	7.34	0.07	0.48	8/7/2018	1055	7	7.75 0.6	7.65	-0.25	0.32	(1), (2) and (3)
2B-SW02	7.03	2/5/2016	1305	0.81	8/8/2016	1.26	-0.45	8/8/2017	1133	5	8 0.7	5.67	1.36	-0.1	8/7/2018	1100	5	6.5 0.5	5.55	1.48	-0.12	(1), (2) and (3)
2B-SW03	7.37	2/5/2016	1301	1.41	8/8/2016	1.83	-0.42	8/8/2017	1134	5	1 0.1	5.09	2.28	-0.45	8/7/2018	1105	5	5.25 0.4	5.44	1.93	0.35	(1), (2) and (3)
2B-SW04	7.4	2/5/2016	1311	1.83	8/8/2016	1.21	0.62	8/8/2017	1135	6	7 0.6	6.59	0.81	0.4	8/7/2018	1110	6	7.5 0.6	6.63	0.77	0.04	(1), (2) and (3)
2B-SW14	7.17	2/5/2016	1157	-3.81	8/8/2016	-4.44	0.63	8/8/2017	923	11	8.5 0.7	11.71	-4.54	0.1	8/7/2018	1115	11	11.75 1	11.98	-4.81	0.27	(1), (2) and (3)
2B-SW15	7.18	2/5/2016	1155	-4.68	8/8/2016	-3.91	-0.77	8/8/2017	923	11	1 0.1	11.09	-3.91	0	8/7/2018	1120	11	11.25 0.9	11.94	-4.76	0.85	(1), (2) and (3)
2B-SW16	6.92	2/1/2016	1354	-9.54	8/8/2016	-9.74	0.2	8/8/2017	1033	16	7 0.6	16.59	-9.67	-0.07	8/7/2018	1125	16	8 0.7	16.67	-9.75	0.08	(1), (2) and (3)
2B-SW17	7.18	2/1/2016	1149	-11.14	8/8/2016	-11.3	0.16	8/8/2017	928	18	0 0	18	-10.82	-0.48	8/7/2018	1130	18	1.5 0.1	18.13	-10.95	0.13	(1), (2) and (3)
2B-SW18	7.17	2/1/2016	1142	-8.83	8/8/2016	-9.02	0.19	8/8/2017	929	16	7 0.6	16.59	-9.42	0.4	8/7/2018	1135	16	8.25 0.7	16.69	-9.52	0.1	(1), (2) and (3)
2B-SW19	7.18	2/1/2016	1139	-9.82	8/8/2016	-10.3	0.48	8/8/2017	1016	17	9.5 0.8	17.8	-10.62	0.32	8/7/2018	1140	17	10.25 0.9	17.86	-10.68	0.06	(1), (2) and (3)
2B-SW20	7.23	2/1/2016	1135	-9.07	8/8/2016	-9.49	0.42	8/8/2017	1018	16	3.5 0.3	16.3	-9.07	-0.42	8/7/2018	1145	16	3.75 0.3	16.32	-9.09	0.02	(1) and (2)
2B-SW21	7.22	2/1/2016	1130	-7.91	8/8/2016	-8.11	0.2	8/8/2017	1022	15	7.5 0.6	15.63	-8.41	0.3	8/7/2018	1150	15	8.75 0.7	15.73	-8.51	0.1	(1) and (2)
2B-SW22	7.2	2/1/2016	1125	-7.8	8/8/2016	-8.05	0.25	8/8/2017	1024	15	7.5 0.6	15.63	-8.43	0.38	8/7/2018	1155	15	8.25 0.7	15.69	-8.49	0.06	(1) and (2)
2B-SW23	7.2	2/1/2016	1123	-7.14	8/8/2016	-7.43	0.29	8/8/2017	1025	14	9 0.8	14.75	-7.55	0.12	8/7/2018	1200	14	9 0.8	14.75	-7.55	0	(1) and (2)
2B-SW24	6.97	2/1/2016	1357	-11.82	8/8/2016	-12.27	0.45	8/8/2017	1033	19	8 0.7	19.67	-12.7	0.43	8/7/2018	1205	19	8.75 0.7	19.73	-12.76	0.06	(1) and (2)
2B-SW25	7.19	2/1/2016	1317	-12.71	8/8/2016	-13.1	0.39	8/8/2017	1040	20	0.5 0	20.05	-12.86	-0.24	8/7/2018	1210	20	1.25 0.1	20.11	-12.92	0.06	(1) and (2)
2B-SW26	7.2	2/1/2016	1325	-13.04	8/8/2016	-13.49	0.45	8/8/2017	1043	21	1 0.1	21.09	-13.89	0.4	8/7/2018	1215	21	1.5 0.1	21.13	-13.93	0.04	(1) and (2)
2B-SW27	7.17	2/1/2016	1330	-12.54	8/8/2016	-12.08	-0.46	8/8/2017	1049	19	3.5 0.3	19.3	-12.13	0.05	8/7/2018	1220	19	3.75 0.3	19.32	-12.15	0.02	(1) and (2)
2B-SW28	7.2	2/1/2016	1333	-13.47	8/8/2016	-13.85	0.38	8/8/2017	1058	20	11 0.9	20.92	-13.72	-0.13	8/7/2018	1225	20	11.75 1	20.98	-13.78	0.06	(1) and (2)
2B-SW29	7.19	2/1/2016	1334	-9.66	8/8/2016	-10.4	0.74	8/8/2017	1059	18	0 0	18	-10.81	0.41	8/7/2018	1230	18	1.25 0.1	18.11	-10.92	0.11	(1) and (2)
2B-SW30	7.19	2/1/2016	1338	-12.27	8/8/2016	-12.37	0.1	8/8/2017	1100	19	9.5 0.8	19.8	-12.61	0.24	8/7/2018	1235	19	10.25 0.9	19.86	-12.67	0.06	(1) and (2)
2B-SW32	7.15	2/1/2016	1336	-13.3	8/8/2016	-13.67	0.37	8/8/2017	1122	20	11 0.9	20.92	-13.77	0.1	8/7/2018	1240	20	11.75 1	20.98	-13.83	0.06	(1) and (2)
2B-SW33	6.99	2/1/2016	1349	-16.22	8/8/2016	-16.91	0.69	8/8/2017	1036	24	4.5 0.4	24.38	-17.39	0.48	8/7/2018	1245	24	5.75 0.5	24.48	-17.49	0.1	(1) and (2)
2B-SW34	7.16	2/1/2016	1350	-16.19	8/8/2016	-16.29	0.1	8/8/2017	1121	23	6.5 0.5	23.55	-16.39	0.1	8/7/2018	1250	23	7 0.6	23.59	-16.43	0.04	(1) and (2)
2B-SW35	7.15	2/1/2016	1351	-15.08	8/8/2016	-15.72	0.64	8/8/2017	1120	23	3 0.3	23.25	-16.1	0.38	8/7/2018	1255	23	4.5 0.4	23.38	-16.23	0.13	(1) and (2)
2B-SW36	7.16	2/1/2016	1344	-16.46	8/8/2016	-15.91	-0.55	8/8/2017	1117	22	8 0.7	22.67	-15.51	-0.4	8/7/2018	1300	22	8.5 0.7	22.71	-15.55	0.04	(1) and (2)
2B-SW37	7.15	2/1/2016	1329	-12.35	8/8/2016	-13.13	0.78	8/8/2017	1047	20	5.5 0.5	20.46	-13.31	0.18	8/7/2018	1305	20	6.75 0.6	20.57	-13.42	0.11	(1) and (2)
2B-SW38	7.17	2/1/2016	1343	-13.29	8/8/2016	-13.29	0	8/8/2017	1119	20	4 0.3	20.34	-13.17	-0.12	8/7/2018	1310	20	5.25 0.4	20.44	-13.27	0.1	(1) and (2)

TABLE SMP PRR # 01 - OU-2 AREA MULTI-LAYER SCS TOP OF SCS ARMOR PROTECTION LAYER BATHYMETRIC SURVEY MEASUREMENTS

Multi-Layer SCS Bathymetric Survey Location	EPRI Building Finished Floor Elevation	1-Feb-16			8-Aug-16			8-Aug-17							7-Aug-18							Remarks
		ARMOR PROTECTION STONE Multi-Layer SCS Bathymetric Survey Field Observations		Top of SCS Armor Protection Stone Bathymetry	ARMOR PROTECTION STONE Multi-Layer SCS Bathymetric Survey Field Observations	Top of SCS Armor Protection Stone Bathymetry	Difference Between Last Measurement	ARMOR PROTECTION STONE Multi-Layer SCS Bathymetric Survey Field Observations		Observed Depth to Top of SCS Armor Protection Stone with respect to EPRI Building Finished Floor Elevation			Top of SCS Armor Protection Stone Bathymetry	Difference Between Last Measurement	ARMOR PROTECTION STONE Multi-Layer SCS Bathymetric Survey Field Observations		Observed Depth to Top of SCS Armor Protection Stone with respect to EPRI Building Finished Floor Elevation			Top of SCS Armor Protection Stone Bathymetry	Difference Between Last Measurement	
	Feet NAVD 88	DATE	TIME	Feet NAVD 88	DATE	Feet NAVD 88	Feet	DATE	TIME	Feet	Inch	Feet	Feet NAVD 88	Feet	DATE	TIME	Feet	Inch	Feet	Feet NAVD 88	Feet	
Window #1 (W1)																						
W1 - NE Corner	7.2	2/5/2016	1242	-1.52	8/8/2016	-2.1	0.58	8/8/2017	913	8	11 0.9	8.92	-1.72	-0.38	8/7/2018	0900	9	0.25	0	9.03	-1.83	0.11	(1) and (2)
W1 - SE Corner	7.2	2/5/2016	1241	-0.64	8/8/2016	-1.26	0.62	8/8/2017	913	8	10.5 0.9	8.88	-1.68	0.42	8/7/2018	0901	8	11.75	1	8.98	-1.78	0.1	(1) and (2)
W1 - NW Corner	7.2	2/5/2016	1243	-1.8	8/8/2016	-2.5	0.7	8/8/2017	912	9	3 0.3	9.25	-2.05	-0.45	8/7/2018	0902	9	4	0.3	9.34	-2.14	0.09	(1) and (2)
W1 - SW Corner	7.2	2/5/2016	1241	-1.03	8/8/2016	-1.76	0.73	8/8/2017	912	9	4 0.3	9.34	-2.14	0.38	8/7/2018	0903	9	4.5	0.4	9.38	-2.18	0.04	(1) and (2)
Window #2 (W2)																						
W2 - NE Corner	7.28	2/5/2016	1237	-1.14	8/8/2016	-1.66	0.52	8/8/2017	900	9	0 0	9	-1.72	0.06	8/7/2018	0833	9	1.25	0.1	9.11	-1.83	0.11	(1) and (2)
W2 - SE Corner	7.28	2/5/2016	1236	-1.54	8/8/2016	-2.12	0.58	8/8/2017	900	9	5 0.4	9.42	-2.14	0.02	8/7/2018	0832	9	6	0.5	9.5	-2.22	0.08	(1) and (2)
W2 - NW Corner	7.28	2/5/2016	1238	-1.12	8/8/2016	-1.69	0.57	8/8/2017	900	9	5.5 0.5	9.46	-2.18	0.49	8/7/2018	0831	9	5.75	0.5	9.48	-2.2	0.02	(1) and (2)
W2 - SW Corner	7.28	2/5/2016	1235	-1.93	8/8/2016	-2.51	0.58	8/8/2017	900	9	4 0.3	9.34	-2.06	-0.45	8/7/2018	0830	9	5.25	0.4	9.44	-2.16	0.1	(1) and (2)
Window #3 (W3)																						
W3 - NE Corner	7.24	2/5/2016	1232		8/8/2016	-0.63	0.63	8/8/2017	858	9	2 0.2	9.17	-1.93	1.3	8/7/2018	0828	9	2.75	0.2	9.23	-1.99	0.06	(1) and (2)
W3 - SE Corner	7.24	2/5/2016	1231	-1.1	8/8/2016	-1.77	0.67	8/8/2017	858	9	5 0.4	9.42	-2.18	0.41	8/7/2018	0827	9	6.25	0.5	9.53	-2.29	0.11	(1) and (2)
W3 - NW Corner	7.24	2/5/2016	1233	-1.22	8/8/2016	-1.93	0.71	8/8/2017	858	9	7 0.6	9.59	-2.35	0.42	8/7/2018	0826	9	8.5	0.7	9.71	-2.47	0.12	(1) and (2)
W3 - SW Corner	7.24	2/5/2016	1226	-2.06	8/8/2016	-2.79	0.73	8/8/2017	858	10	1.5 0.1	10.13	-2.89	0.1	8/7/2018	0825	10	2.25	0.2	10.19	-2.95	0.06	(1) and (2)
Window #4 (W4)																						
W4 - NE Corner	7.28	2/5/2016	1222	-0.92	8/8/2016	-1.59	0.67	8/8/2017	856	9	2 0.2	9.17	-1.89	0.3	8/7/2018	0820	9	3.25	0.3	9.28	-2	0.11	(1) and (2)
W4 - SE Corner	7.28	2/5/2016	1221	-0.65	8/8/2016	-1.39	0.74	8/8/2017	856	9	2 0.2	9.17	-1.89	0.5	8/7/2018	0821	9	2.5	0.2	9.21	-1.93	0.04	(1) and (2)
W4 - NW Corner	7.28	2/5/2016	1224	-2.58	8/8/2016	-3.3	0.72	8/8/2017	856	10	1.5 0.1	10.13	-2.85	-0.45	8/7/2018	0822	10	3	0.3	10.25	-2.97	0.12	(1) and (2)
W4 - SW Corner	7.28	2/5/2016	1220	-1.31	8/8/2016	-1.99	0.68	8/8/2017	856	9	8.5 0.7	9.71	-2.43	0.44	8/7/2018	0823	9	9.25	0.8	9.78	-2.5	0.07	(1) and (2)
Window #5 (W5)																						
W5 - NE Corner	7.49	2/5/2016	1218	-0.9	8/8/2016	-0.9	0	8/8/2017	854	8	4.5 0.4	8.38	-0.89	-0.01	8/7/2018	0815	8	5.25	0.4	8.44	-0.95	0.06	(1) and (2)
W5 - SE Corner	7.49	2/5/2016	1217	-1.17	8/8/2016	-1.27	0.1	8/8/2017	854	8	7 0.6	8.59	-1.1	-0.17	8/7/2018	0816	8	7.5	0.6	8.63	-1.14	0.04	(1) and (2)
W5 - NW Corner	7.49	2/5/2016	1219	-0.22	8/8/2016	-0.67	0.45	8/8/2017	854	8	5.5 0.5	8.46	-0.97	0.3	8/7/2018	0817	8	6.5	0.5	8.55	-1.06	0.09	(1) and (2)
W5 - SW Corner	7.49	2/5/2016	1216	-0.53	8/8/2016	-1.01	0.48	8/8/2017	854	8	9.5 0.8	8.8	-1.31	0.3	8/7/2018	0818	8	11.25	0.9	8.94	-1.45	0.14	(1) and (2)
Window #6 (W6)																						
W6 - NE Corner	7.38	2/5/2016	1213	0.04	8/8/2016	-0.43	0.47	8/8/2017	852	8	1.5 0.1	8.13	-0.75	0.32	8/7/2018	0810	8	2.25	0.2	8.19	-0.81	0.06	(1) and (2)
W6 - SE Corner	7.38	2/5/2016	1212	-0.04	8/8/2016	-0.51	0.47	8/8/2017	852	8	2.5 0.2	8.21	-0.83	0.32	8/7/2018	0811	8	3	0.3	8.25	-0.87	0.04	(1) and (2)
W6 - NW Corner	7.38	2/5/2016	1214	-0.92	8/8/2016	-1.32	0.4	8/8/2017	852	8	3 0.3	8.25	-0.87	-0.45	8/7/2018	0812	8	3.75	0.3	8.32	-0.94	0.07	(1) and (2)
W6 - SW Corner	7.38	2/5/2016	1211	-1.46	8/8/2016	-1.94	0.48	8/8/2017	852	8	10 0.8	8.84	-1.46	-0.48	8/7/2018	0813	8	11.25	0.9	8.94	-1.56	0.1	(1) and (2)
Window #7 (W7)																						
W7 - NE Corner	7.27	2/5/2016	1208	-0.13	8/8/2016	-0.58	0.45	8/8/2017	850	8	3 0.3	8.25	-0.98	0.4	8/7/2018	0808	8	4.5	0.4	8.38	-1.11	0.13	(1) and (2)
W7 - SE Corner	7.27	2/5/2016	1207	0.49	8/8/2016	-0.03	0.52	8/8/2017	850	7	8.5 0.7	7.71	-0.44	0.41	8/7/2018	0807	7	10.25	0.9	7.86	-0.59	0.15	(1) and (2)
W7 - NW Corner	7.37	2/5/2016	1209	-1.33	8/8/2016	-1.61	0.28	8/8/2017	850	9	3.5 0.3	9.3	-1.93	0.32	8/7/2018	0806	9	4.75	0.4	9.4	-2.03	0.1	(1) and (2)
W7 - SW Corner	7.37	2/5/2016	1205	-0.68	8/8/2016	-1.13	0.45	8/8/2017	850	8	11 0.9	8.92	-1.55	0.42	8/7/2018	0805	9	0.25	0	9.03	-1.66	0.11	(1) and (2)
Window #8 (W8)																						
W8 - NE Corner	7.25	2/5/2016	1202	-0.84	8/8/2016	-1.19	0.35	8/8/2017	849	8	10 0.8	8.84	-1.59	0.4	8/7/2018	0801	8	11.75	1	8.98	-1.73	0.14	(1) and (2)
W8 - NW Corner	7.25	2/5/2016	1203	-2.25	8/8/2016	-2.53	0.28	8/8/2017	849	9	11 0.9	9.92	-2.67	0.14	8/7/2018	0800	9	11.5	1	9.96	-2.71	0.04	(1) and (2)

NOTES

(1) 08.2016 to 08.2017 Acceptable Movement (AM), No Further Action (BFA)
(2) 08.2017 to 08.2018 Acceptable Movement (AM), No Further Action (BFA)
(3) Soft Surface Observed from On-Going Sediment Redeposition on SCS Armor Stone

APPENDIX D

Semi-Annual Groundwater Monitoring Results Reports

ELECTRONIC MAIL SUBMISSION

October 2, 2018
05697-0006

Education
Energy Utility
Hospitality
Public Sector
Real Estate
Science & Technology

Mr. Matthew Hubicki
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7017

RE: **Former BICC Cables Corporation Site (Site)**
City of Yonkers, Westchester, New York
NYSDEC Site No. C360051
Semi-Annual Groundwater Monitoring Results Report (2nd Round)

Dear Mr. Hubicki,

On behalf of Extell Waterfront Development, LLC (Extell), Paulus, Sokolowski and Sartor Engineering, PC (PS&S) has prepared this Semi-Annual Groundwater Monitoring Results Report (the Report) for the Former BICC Cables Corporation Site (the Site) located in the City of Yonkers, New York. This Report presents the findings of the 2nd round of Semi-Annual Groundwater Monitoring completed at the Site in compliance with the New York State Department of Environmental Conservation (NYSDEC)-approved Site Management Plan (SMP), dated April 14, 2017.

1.0 Introduction

As per the SMP, Section 3.2, and further detailed in SMP Attachment 8 (Groundwater Monitoring Work Plan), groundwater level and quality monitoring will be performed periodically on the established Site groundwater monitoring wells. Groundwater monitoring will be conducted on a semi-annual basis for a minimum of 2 years to assess groundwater conditions after the remediation and to determine the nature and extent of the impact to groundwater being caused by the off-Site source of VOCs/PCBs entering the Site.

This report documents and presents the findings of the 2nd round of semi-annual groundwater sampling activities completed in August 2018.

2.0 Groundwater Sampling

2.1 Groundwater Sampling Activities

As noted in the previous Semi-Annual Groundwater Monitoring Results Report (1st Round), dated April 13, 2018, groundwater monitoring well RMW-2 was not sampled due to an obstruction in the well at approximately nine feet below the top of

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the installed PVC riser. Per discussions with NYSDEC, RMW-2 will be decommissioned and reinstalled in kind for sampling prior to the February 2019 semi-annual groundwater sampling event.

In accordance with the SMP, PS&S collected one sample from RMW-1, RMW-3, RMW-4 and RMW-5 on August 7, 2018 using low-flow purging and sampling techniques. Samples were submitted to Alpha Analytical (Alpha) for TCL VOC and PCB analysis. Required quality assurance and quality control samples (e.g., field blanks, trip blanks and matrix spikes) were also collected and submitted to Alpha.

The Groundwater Monitoring Well Location Map (Enclosure 1 of the SMP Attachment 8) is provided as **Attachment A.** In addition, SMP Groundwater Monitoring Well Construction Logs (Enclosure 4 of the SMP Attachment 8) are provided as **Attachment B**. Purged groundwater (from both the 1st and 2nd round of 2018 Semi-Annual Groundwater Sampling) was stored in two 55-gallon drums. Following proper waste characterization, the investigation derived waste (IDW) was disposed of off-site by Brookside Environmental to Clean Water of New York. IDW disposal manifests for purge water generated from the 1st and 2nd rounds are provided in **Attachment F.**

2.2 Groundwater Sample Results

Groundwater sample results were compared to Division of Water Technical and Operational Guidance Series 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, dated June 1998 (TOGS GA).

All sample results reported below laboratory reporting limits for PCBs and VOCs except for the following:

- Tetrachloroethene was detected at 12 micrograms/liter (ug/L) in sample RMW-1, which is above the NY TOGS GA of 5 ug/L.
- Trichloroethene was detected at 0.75 ug/L in sample RMW-5, which is below the NY TOGS GA of 5 ug/L.

Please see **Attachment C** for the groundwater sample results summary table and **Attachment D** for full lab reports.

3.0 Conclusions and Recommendations

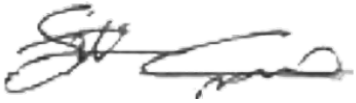
PCBs were not detected above NY TOGS GA in any of the groundwater samples collected, and only VOC Tetrachloroethene was detected above NY TOGS GA in one of the four groundwater samples (detected in RMW-1 at 12 ug/L). Tetrachloroethene was also detected in RMW-1 during the 1st Round of sampling conducted in February 2018 at 6.1 ug/L. PS&S

will utilize the next round of semi-annual groundwater sampling (scheduled for February 2019) to better evaluate the trend of Tetrachloroethene concentrations in RMW-1.

Extell and PS&S appreciate your review of this Report. In accordance with the SMP Appendix 8, electronic data deliverables (EDDs) were completed and submitted to NYSDEC on September 28, 2018. In addition, Data Usability Summary Reports (DUSRs) have been completed and are provided as **Attachment E**. The next round of semi-annual groundwater sampling is scheduled for February 2019.

Should you have any questions or require additional information, please contact Scott Caporizzo at 914-226-3722 or scaporizzo@psands.com, or L. Miguel Salinas at 732-584-0435 or lsalinas@psands.com.

Very truly yours,



Scott P. Caporizzo, E.I.T.
PAULUS, SOKOLOWSKI AND SARTOR ENGINEERING, P.C.

Attachments:

1. Attachment A – Groundwater Monitoring Well Location Map
2. Attachment B – Groundwater Monitoring Well Construction Logs
3. Attachment C – Groundwater Sample Results Summary Table
4. Attachment D – Alpha Analytical Full Lab Reports
5. Attachment E – Data Usability Summary Reports
6. Attachment F – IDW Manifests (1st and 2nd rounds)

CC: Jack Mandelbaum, Extell; Hindy Gorelick, Extell, M. Salinas, PS&S; J. Szeman, PS&S

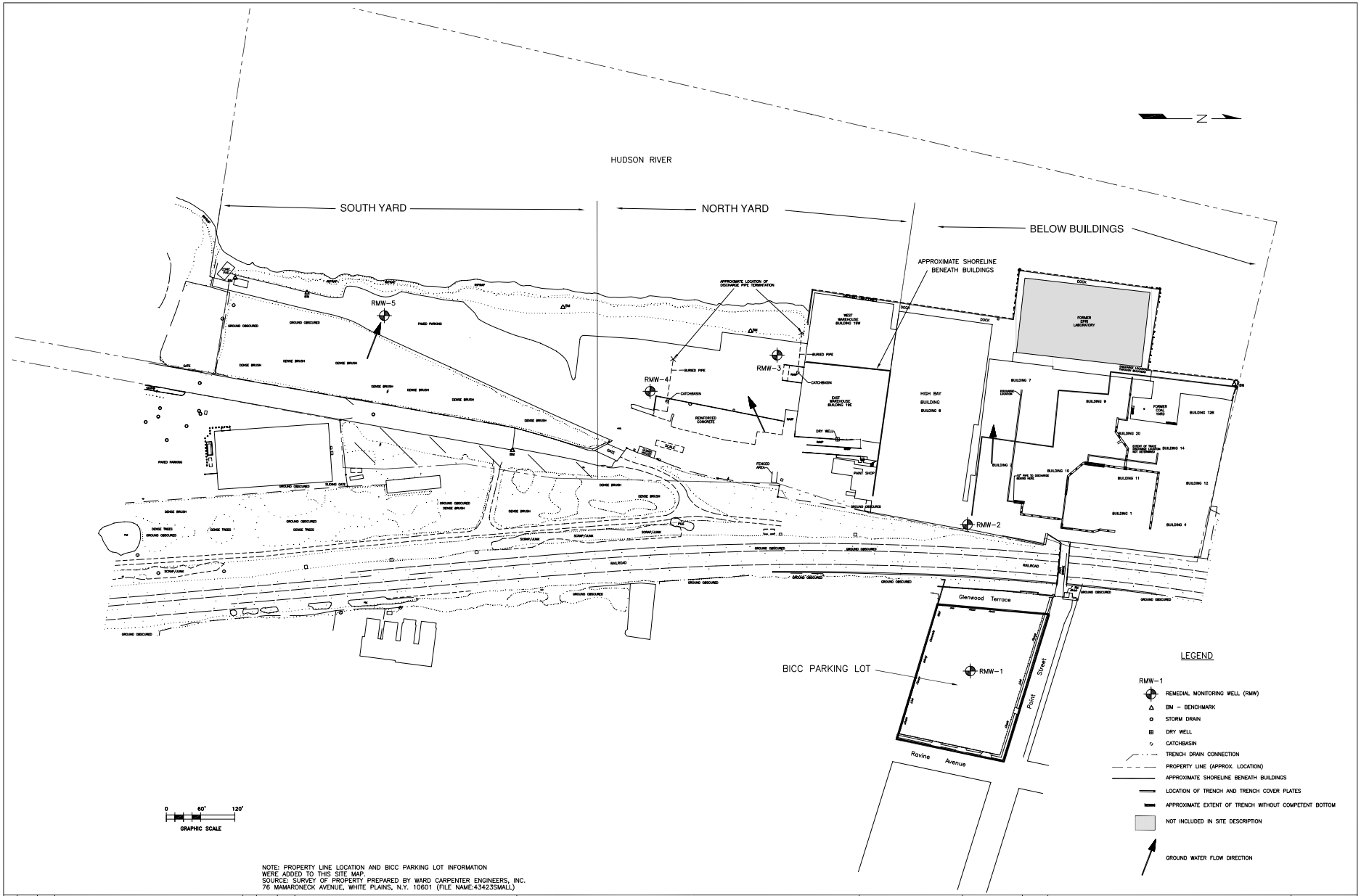
ATTACHMENT A

Groundwater Monitoring Well Location Map

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NOTE: PROPERTY LINE LOCATION AND BICC PARKING LOT INFORMATION WERE ADDED TO THIS SITE MAP.
SOURCE: SURVEY OF PROPERTY PREPARED BY WARD CARPENTER ENGINEERS, INC. 76 MAMARONECK AVENUE, WHITE PLAINS, N.Y. 10601 (FILE NAME:43423SMALL)

NO.	DATE	APPR.	REVISION

BICC YONKERS REMEDIAL INVESTIGATION/FEASIBILITY STUDY

BICC CABLES CORPORATION

Environmental Resources Management

ERM

CHECKED	
DESIGN ENGINEER	
PROJECT ENGINEER	
PROJECT MANAGER	
APPROVED	
APPROVED	

PROPOSED LOCATION OF POST REMEDIATION GROUND WATER MONITORING WELLS

DRAWN	E.M.F.	DATE	10/21/03
SCALE	GRAPHIC	JOB NO.	0001367.07
FILE NAME	0001367-07-00BYS		

FIGURE NO. 9-1

REV. NO.

SHEET OF

7122

ATTACHMENT B

Groundwater Monitoring Well Construction Logs

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Monitoring Well ID: RMW-1

Client: Black Acre Parnters OPS

Location: Yonkers, NY

Project: BICC1201

Operational Area: Point Street Parking Lot

Site: 233 Alexander Street

Oversight Personnel: OKM

H2M GROUP
H2M Associates, Inc.
Engineers, Scientists, & Planners
119 Cherry Hill Road, Suite 200
Parsippany, NJ 07054
(862) 207-5900
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Subsurface Profile

Sample

Depth (ft b.g.)	Symbol	Description	Moisture Content	PID Response	Blows/6"	Recovery	Well Completion Details	Remarks
0		ASPHALT: Asphalt						
1		SAND : Light brown medium sand						
2								
3								
4								
5		SAND AND GRAVEL: Light brown mediium sand w/ gravel			14			
6					5	12"		
7					6			
8		GRAVEL AND SAND: grey/black gravely sand w/ clay			5			
9					6	15"		
10		SAND AND GRAVEL: brown med-fine sand w/ gravel			4			
11					9			
12					11	18"		
13					12			
14					11			
15					10			
16					13	18"		
17					8			
18					9			
19					7			
20		SAND : light brown to brown fine sand			9			
21					15	21"		
22					21			
23					11			
24					15			
25					8	21"		
26					7			
27					11			
28					4	18"		
29					7			
30		SAND AND GRAVEL: brown med-fine sand w/ gravel and silt			10			
31					9			
32					11	15"		
33					8			
34					9			
35					12			
36					8	15"		
37					8			
38					9			
					14			
					6	12"		
					2			
		CLAYEY SAND: reddish-brown clayey sand			3			
					4	12"		
					3			
					8			
					7			
					10	24"		GW encountered @ 27' bsg
					16			
					22			
		SAND : yellowish-brown med-fine sand w/ black-reddish-brown mottling			23			
					15	24"		
					31			
		CLAY AND SAND: reddish-brown sandy clay			37			
					31	24"		
					46			
					41			
		SAND AND CLAY: reddish brown clayey med-fine sand			47			
					7	18"		
					17			
					28			
					24			
					37			
					47	12"		
					50			
					2			End of Boring @ 37' bsg

Constructed By: Aquifer Drilling & Testing, Inc.

Casing Diameter: 2

Construction Method: Hollow Stem Auger

Weather:

Construction Date: 11/17/11

Sheet: 1 of 1

Monitoring Well ID: RMW-2

Client: Black Acre Parnters OPS

Location: Yonkers, NY

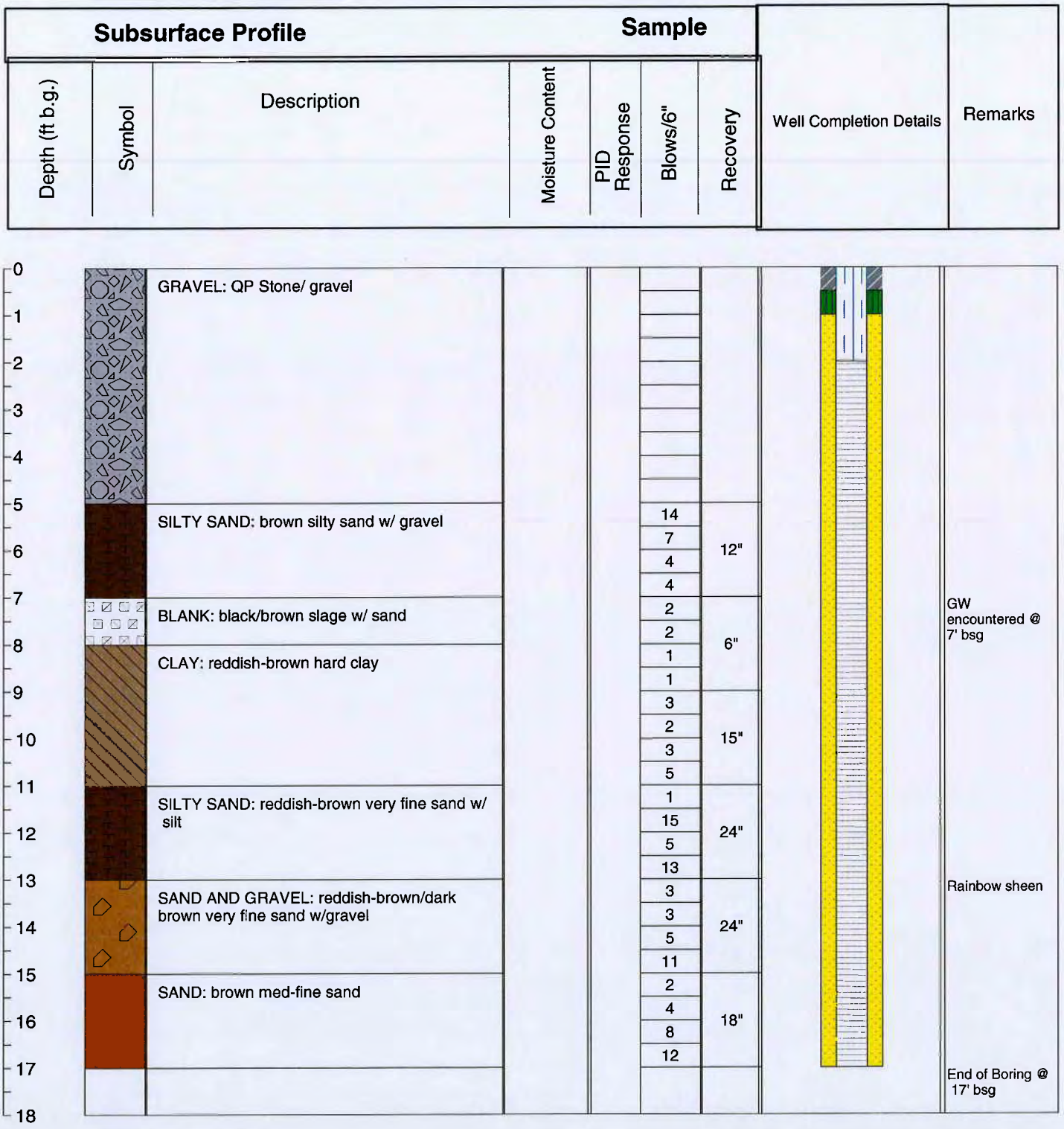
Project: BICC1201

Operational Area: North End / Below Building Area

Site: 233 Alexander Street

Oversight Personnel: OKM

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Constructed By: Aquifer Drilling & Testing, Inc.

Casing Diameter: 2

Construction Method: Hollow Stem Auger

Weather:

Construction Date: 11/17/11

Sheet: 1 of 1

Monitoring Well ID: RMW-3

Client: Black Acre Parnters OPS

Location: Yonkers, NY

Project: BICC1201

Operational Area: North Yard Area

Site: 233 Alexander Street

Oversight Personnel: OKM

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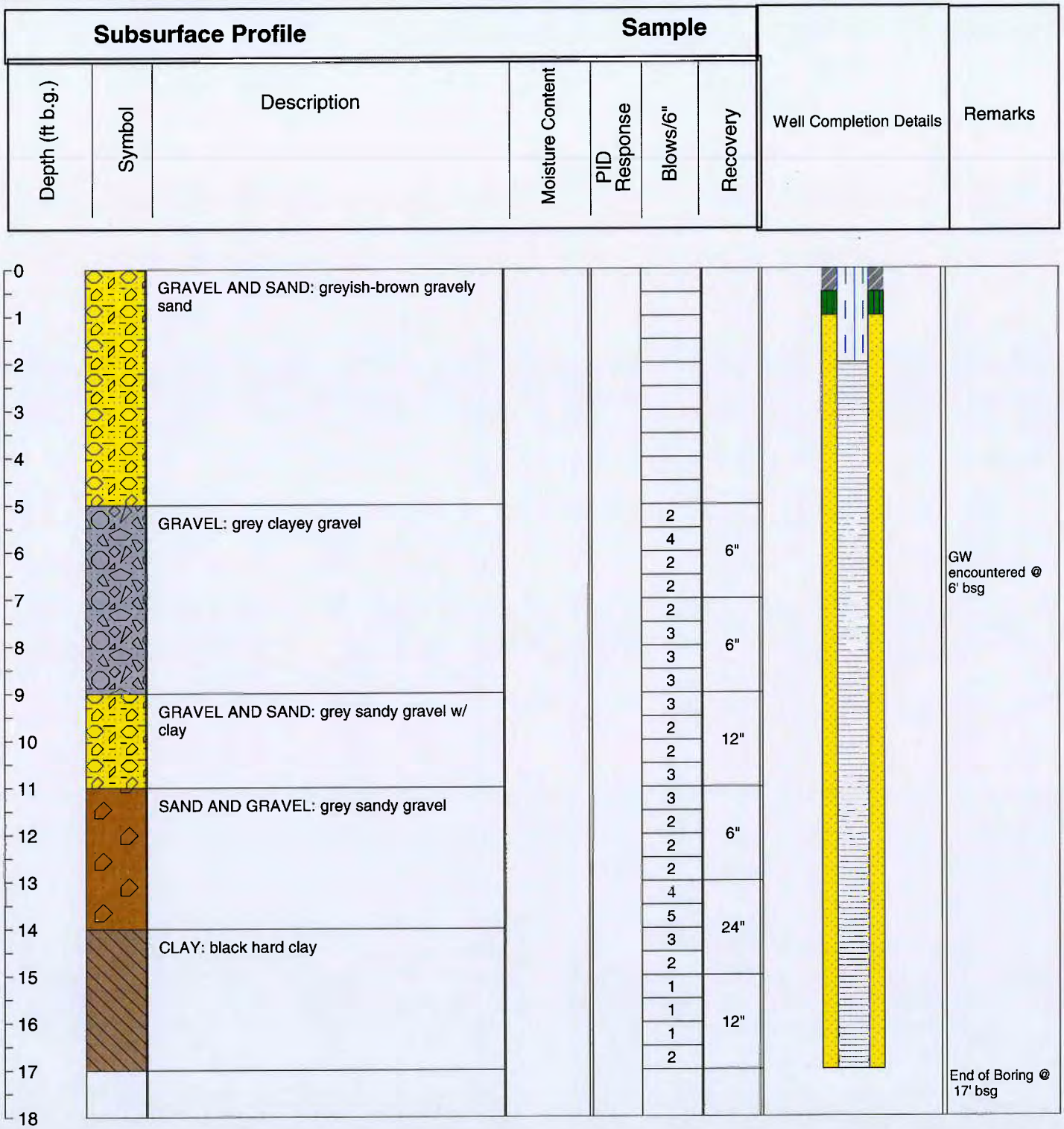
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Constructed By: Aquifer Drilling & Testing, Inc.

Casing Diameter: 2

Construction Method: Hollow Stem Auger

Weather:

Construction Date: 11/17/11

Sheet: 1 of 1

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Monitoring Well ID: RMW-4

Client: Black Acre Parnters OPS

Location: Yonkers, NY

Project: BICC1201

Operational Area: North Yard Area

Site: 233 Alexander Street

Oversight Personnel: OKM

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Subsurface Profile			Sample						
Depth (ft b.g.)	Symbol	Description	Moisture Content	PID Response	Blows/6"	Recovery	Well Completion Details	Remarks
0		ASPHALT: Asphalt						
1		SAND AND GRAVEL: brown sandy gravel						
2								
3								
4								
5		CLAY: black hard clay			6	6"		
6					3			
7					4			GW encountered @ 7' bsg
8					3			
9		SAND AND CLAY: grey sandy soft clay w/ gravel			1	4"		
10					1			
11		BLANK: debris: brick/wood/gravel			1			
12					1			
13					2	12"		
14					2			
15					1			
16		CLAY: black hard clay			3			
17					3	4"		
18					5			
					6			
					7			
					1	8"		
					1			
					2			
					14			
					11	8"		
					12			
					6			End of Boring @ 17' bsg
					7			

Constructed By: Aquifer Drilling & Testing, Inc.

Casing Diameter: 2

Construction Method: Hollow Stem Auger

Weather:

Construction Date: 11/21/11

7139

Sheet: 1 of 1

Monitoring Well ID: RMW-5

Client: Black Acre Parnters OPS

Location: Yonkers, NY

Project: BICC1201

Operational Area: South Yard Area

Site: 233 Alexander Street

Oversight Personnel: OKM

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Subsurface Profile				Sample					
Depth (ft b.g.)	Symbol	Description	Moisture Content	PID Response	Blows/6"	Recovery	Well Completion Details	Remarks
0		ASPHALT: Asphalt						
1		SAND AND CLAY: brown clayey sand w/ small pieces of brick						
2								
3								GW encountered @ 3' bsg
4								
5		GRAVEL AND SAND: brown med-fine sand w/ gravel			5	18"		
6		BLANK: debris/ fill material: black sand w/ pieces of wood, brick & cinders			2			
7					12			
8					6			
9					4	12"		
10					6			
11					5			
12					7			
13					6	12"		
14					8			
					10			
					12			
					7	12"		
					2			
					1			
					1			End of Boring @ 13' bsg

Constructed By: Aquifer Drilling & Testing, Inc.

Casing Diameter: 2

Construction Method: Hollow Stem Auger

Weather:

Construction Date: 11/17/11

7140

Sheet: 1 of 1

ATTACHMENT C

Groundwater Sample Results Summary Table

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Table C1
BICC Cables Corporation Site
Groundwater Sample Results Summary Table
August 2018

CLIENT ID: / LAB ID: / COLLECTION DATE: / SAMPLE MATRIX: / SAMPLE UNITS:		NY TOGS WaterQualStds (ug/L)	RMW-1 L1830670-04 8/7/2018 Aqueous ug/L			RMW-3 L1830670-05 8/7/2018 Aqueous ug/L			RMW-4 L1830670-06 8/7/2018 Aqueous ug/L			RMW-5 L1830670-07 8/7/2018 Aqueous ug/L		
Analyte	**CAS Number**		**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
VOLATILE ORGANICS														
1,1,1,2-Tetrachloroethane	630-20-6	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1,1-Trichloroethane	71-55-6	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1,2,2-Tetrachloroethane	79-34-5	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1,2-Trichloroethane	79-00-5	1	ND		1.5	ND		1.5	ND		1.5	ND		1.5
1,1-Dichloroethane	75-34-3	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,1-Dichloroethene	75-35-4	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,1-Dichloropropene	563-58-6	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2,3-Trichlorobenzene	87-61-6	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2,3-Trichloropropane	96-18-4	0.04	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2,4,5-Tetramethylbenzene	95-93-2	5	ND		2	ND		2	0.56	J	2	ND		2
1,2,4-Trichlorobenzene	120-82-1	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2,4-Trimethylbenzene	95-63-6	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dibromoethane	106-93-4	NA	ND		2	ND		2	ND		2	ND		2
1,2-Dichlorobenzene	95-50-1	3	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dichloroethane	107-06-2	0.6	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,2-Dichloroethene, Total	540-59-0	NA	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,2-Dichloropropane	78-87-5	1	ND		1	ND		1	ND		1	ND		1
1,3,5-Trimethylbenzene	108-67-8	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,3-Dichlorobenzene	541-73-1	3	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,3-Dichloropropane	142-28-9	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,3-Dichloropropene, Total	542-75-6	0.4	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,4-Dichlorobenzene	106-46-7	3	ND		2.5	ND		2.5	ND		2.5	ND		2.5
1,4-Dioxane	123-91-1	NA	ND		250	ND		250	ND		250	ND		250
2,2-Dichloropropane	594-20-7	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
2-Butanone	78-93-3	50	ND		5	ND		5	ND		5	ND		5
2-Hexanone	591-78-6	50	ND		5	ND		5	ND		5	ND		5
4-Methyl-2-pentanone	108-10-1	NA	ND		5	ND		5	ND		5	ND		5
Acetone	67-64-1	50	ND		5	ND		5	ND		5	ND		5
Acrylonitrile	107-13-1	5	ND		5	ND		5	ND		5	ND		5
Benzene	71-43-2	1	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Bromobenzene	108-86-1	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromochloromethane	74-97-5	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Bromodichloromethane	75-27-4	50	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Bromoform	75-25-2	50	ND		2	ND		2	ND		2	ND		2
Bromomethane	74-83-9	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Carbon disulfide	75-15-0	NA	ND		5	ND		5	ND		5	ND		5
Carbon tetrachloride	56-23-5	5	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Chlorobenzene	108-90-7	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Chloroethane	75-00-3	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Chloroform	67-66-3	7	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Chloromethane	74-87-3	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
cis-1,2-Dichloroethene	156-59-2	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
cis-1,3-Dichloropropene	10061-01-5	0.4	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Dibromochloromethane	124-48-1	50	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Dibromomethane	74-95-3	5	ND		5	ND		5	ND		5	ND		5
Dichlorodifluoromethane	75-71-8	5	ND		5	ND		5	ND		5	ND		5
Ethyl ether	60-29-7	3	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Ethylbenzene	100-41-4	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Hexachlorobutadiene	87-68-3	0.5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Isopropylbenzene	98-82-8	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Methyl tert butyl ether	1634-04-4	NA	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Methylene chloride	75-09-2	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Naphthalene	91-20-3	10	ND		2.5	ND		2.5	ND		2.5	ND		2.5
n-Butylbenzene	104-51-8	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
n-Propylbenzene	103-65-1	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
o-Chlorotoluene	95-49-8	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
o-Xylene	95-47-6	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
p/m-Xylene	179601-23-1	NA	ND		2.5	ND		2.5	ND		2.5	ND		2.5
p-Chlorotoluene	106-43-4	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
p-Diethylbenzene	105-05-5	NA	ND		2	ND		2	ND		2	ND		2
p-Ethyltoluene	622-96-8	NA	ND		2	ND		2	ND		2	ND		2
p-Isopropyltoluene	99-87-6	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
sec-Butylbenzene	135-98-8	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Styrene	100-42-5	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
tert-Butylbenzene	98-06-6	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Tetrachloroethene	127-18-4	5	12		0.5	ND		0.5	ND		0.5	ND		0.5
Toluene	108-88-3	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
trans-1,2-Dichloroethene	156-60-5	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
trans-1,3-Dichloropropene	10061-02-6	0.4	ND		0.5	ND		0.5	ND		0.5	ND		0.5
trans-1,4-Dichloro-2-butene	110-57-6	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Trichloroethene	79-01-6	5	0.42	J	0.5	0.29	J	0.5	ND		0.5	0.75		0.5
Trichlorofluoromethane	75-69-4	5	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Vinyl acetate	108-05-4	NA	ND		5	ND		5	ND		5	ND		5
Vinyl chloride	75-01-4	2	ND		1	0.98	J	1	ND		1	ND		1
Xylenes, Total	1330-20-7	NA	ND		2.5	ND		2.5	ND		2.5	ND		2.5
Total VOCs		NA	12.42	-	-	1.27	-	-	0.56	-	-	0.75	-	-
PCBs														
Aroclor 1016	12674-11-2	0.09	ND		0.083	ND		0.083	ND		0.083	ND		0.083
Aroclor 1221	11104-28-2	0.09	ND		0.083	ND		0.083	ND		0.083	ND		0.083
Aroclor 1232	11141-16-5	0.09	ND		0.083	ND		0.083	ND		0.083	ND		0.083
Aroclor 1242	53469-21-9	0.09	ND		0.083	ND		0.083	ND		0.083	ND		0.083
Aroclor 1248	12672-29-6	0.09	ND		0.083	ND		0.083	ND		0.083	0.072	J	0.083
Aroclor 1254	11097-69-1	0.09	ND		0.083	ND		0.083	ND		0.083	ND		0.083
Aroclor 1260	11096-82-5	0.09	ND		0.083	ND		0.083	0.041	J	0.083	ND		0.083
Aroclor 1262	37324-23-5	0.09	ND		0.083	ND		0.083	ND		0.083	ND		0.083
Aroclor 1268	11100-14-4	0.09	ND		0.083	ND		0.083	ND		0.083	ND		0.083
PCBs, Total	1336-36-3	0.09	ND		0.083	ND		0.083	0.041	J	0.083	0.072	J	0.083

NOTES:
TOGS GA: Division of Water Technical and Operational Guidance Series 1.1.1
Ambient Water Quality Standards and Guidance Values and Groundwater
Effluent Limitations; June 1998.
ND = Not Detected
NA = Not Applicable
ug/L = microgram per Liter
Q = Data Qualifier
Result exceeds NY TOGS Water Quality Standards

ATTACHMENT D

Alpha Analytical Full Lab Reports

1 Larkin Plaza
2nd Floor
Yonkers, NY 10701

t. 914.509.8600

www.psands.com

ANALYTICAL REPORT

Lab Number:	L1830670
Client:	PS&S Engineering, Inc. 1 Larkin Plaza Second Floor Yonkers, NY 10701
ATTN:	Scott Caporizzo
Phone:	(914) 266-3722
Project Name:	056970006/BICC
Project Number:	056970006
Report Date:	08/21/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1830670-01	WC_08072018	WATER	YONKERS, NY	08/07/18 17:00	08/07/18
L1830670-02	FB_08072018	WATER	YONKERS, NY	08/07/18 10:00	08/07/18
L1830670-03	TB	WATER	YONKERS, NY	08/07/18 00:00	08/07/18
L1830670-04	RMW-1	WATER	YONKERS, NY	08/07/18 16:00	08/07/18
L1830670-05	RMW-3	WATER	YONKERS, NY	08/07/18 13:00	08/07/18
L1830670-06	RMW-4	WATER	YONKERS, NY	08/07/18 14:20	08/07/18
L1830670-07	RMW-5	WATER	YONKERS, NY	08/07/18 09:25	08/07/18
L1830670-08	RMW-6	WATER	YONKERS, NY	08/07/18 08:05	08/07/18
L1830670-09	TB	WATER	YONKERS, NY	08/07/18 00:00	08/07/18

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 056970006/BICC **Lab Number:** L1830670
Project Number: 056970006 **Report Date:** 08/21/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L1830670-01: The sample was received below the appropriate pH for the Sulfide - EPA 9030 analysis. The laboratory added additional Zn Acetate/NaOH; however, the pH would not adjust into the proper range.
The project number and analyses performed were specified by the client.

Volatile Organics

L1830670-01: The sample has elevated detection limits due to the dilution required by the sample matrix (heavy foam).
L1830670-09: The Trip Blank has a result for acetone present above the reporting limit. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

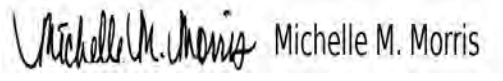
Semivolatile Organics by SIM

L1830670-01: The sample has elevated detection limits due to the dilution required by the sample matrix.

Total Metals

L1830670-01: The sample has an elevated detection limit for thalium due to the dilution required by the high concentrations of target and non-target elements.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Michelle M. Morris

Title: Technical Director/Representative Date: 08/21/18

ORGANICS

VOLATILES

Project Name: 056970006/BICC **Lab Number:** L1830670

Project Number: 056970006 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-01 D
Client ID: WC_08072018
Sample Location: YONKERS, NY

Date Collected: 08/07/18 17:00
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/15/18 10:40
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	120	35.	50
1,1-Dichloroethane	ND		ug/l	120	35.	50
Chloroform	ND		ug/l	120	35.	50
Carbon tetrachloride	ND		ug/l	25	6.7	50
1,2-Dichloropropane	ND		ug/l	50	6.8	50
Dibromochloromethane	ND		ug/l	25	7.4	50
1,1,2-Trichloroethane	ND		ug/l	75	25.	50
Tetrachloroethene	ND		ug/l	25	9.0	50
Chlorobenzene	ND		ug/l	120	35.	50
Trichlorofluoromethane	ND		ug/l	120	35.	50
1,2-Dichloroethane	ND		ug/l	25	6.6	50
1,1,1-Trichloroethane	ND		ug/l	120	35.	50
Bromodichloromethane	ND		ug/l	25	9.6	50
trans-1,3-Dichloropropene	ND		ug/l	25	8.2	50
cis-1,3-Dichloropropene	ND		ug/l	25	7.2	50
1,3-Dichloropropene, Total	ND		ug/l	25	7.2	50
1,1-Dichloropropene	ND		ug/l	120	35.	50
Bromoform	ND		ug/l	100	32.	50
1,1,2,2-Tetrachloroethane	ND		ug/l	25	8.4	50
Benzene	ND		ug/l	25	8.0	50
Toluene	ND		ug/l	120	35.	50
Ethylbenzene	ND		ug/l	120	35.	50
Chloromethane	ND		ug/l	120	35.	50
Bromomethane	ND		ug/l	120	35.	50
Vinyl chloride	ND		ug/l	50	3.6	50
Chloroethane	ND		ug/l	120	35.	50
1,1-Dichloroethene	ND		ug/l	25	8.4	50
trans-1,2-Dichloroethene	ND		ug/l	120	35.	50

Project Name: 056970006/BICC **Lab Number:** L1830670

Project Number: 056970006 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-01 D Date Collected: 08/07/18 17:00

Client ID: WC_08072018 Date Received: 08/07/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	25	8.8	50
1,2-Dichlorobenzene	ND		ug/l	120	35.	50
1,3-Dichlorobenzene	ND		ug/l	120	35.	50
1,4-Dichlorobenzene	ND		ug/l	120	35.	50
Methyl tert butyl ether	ND		ug/l	120	35.	50
p/m-Xylene	ND		ug/l	120	35.	50
o-Xylene	ND		ug/l	120	35.	50
Xylenes, Total	ND		ug/l	120	35.	50
cis-1,2-Dichloroethene	ND		ug/l	120	35.	50
1,2-Dichloroethene, Total	ND		ug/l	120	35.	50
Dibromomethane	ND		ug/l	250	50.	50
1,2,3-Trichloropropane	ND		ug/l	120	35.	50
Acrylonitrile	ND		ug/l	250	75.	50
Styrene	ND		ug/l	120	35.	50
Dichlorodifluoromethane	ND		ug/l	250	50.	50
Acetone	ND		ug/l	250	73.	50
Carbon disulfide	ND		ug/l	250	50.	50
2-Butanone	ND		ug/l	250	97.	50
Vinyl acetate	ND		ug/l	250	50.	50
4-Methyl-2-pentanone	ND		ug/l	250	50.	50
2-Hexanone	ND		ug/l	250	50.	50
Bromochloromethane	ND		ug/l	120	35.	50
2,2-Dichloropropane	ND		ug/l	120	35.	50
1,2-Dibromoethane	ND		ug/l	100	32.	50
1,3-Dichloropropane	ND		ug/l	120	35.	50
1,1,1,2-Tetrachloroethane	ND		ug/l	120	35.	50
Bromobenzene	ND		ug/l	120	35.	50
n-Butylbenzene	ND		ug/l	120	35.	50
sec-Butylbenzene	ND		ug/l	120	35.	50
tert-Butylbenzene	ND		ug/l	120	35.	50
o-Chlorotoluene	ND		ug/l	120	35.	50
p-Chlorotoluene	ND		ug/l	120	35.	50
1,2-Dibromo-3-chloropropane	ND		ug/l	120	35.	50
Hexachlorobutadiene	ND		ug/l	120	35.	50
Isopropylbenzene	ND		ug/l	120	35.	50
p-Isopropyltoluene	ND		ug/l	120	35.	50
Naphthalene	ND		ug/l	120	35.	50

Project Name: 056970006/BICC **Lab Number:** L1830670

Project Number: 056970006 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-01 D Date Collected: 08/07/18 17:00

Client ID: WC_08072018 Date Received: 08/07/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	120	35.	50
1,2,3-Trichlorobenzene	ND		ug/l	120	35.	50
1,2,4-Trichlorobenzene	ND		ug/l	120	35.	50
1,3,5-Trimethylbenzene	ND		ug/l	120	35.	50
1,2,4-Trimethylbenzene	ND		ug/l	120	35.	50
1,4-Dioxane	ND		ug/l	12000	3000	50
p-Diethylbenzene	ND		ug/l	100	35.	50
p-Ethyltoluene	ND		ug/l	100	35.	50
1,2,4,5-Tetramethylbenzene	ND		ug/l	100	27.	50
Ethyl ether	ND		ug/l	120	35.	50
trans-1,4-Dichloro-2-butene	ND		ug/l	120	35.	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	100		70-130

Project Name: 056970006/BICC
Project Number: 056970006
Lab Number: L1830670
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-02
Client ID: FB_08072018
Sample Location: YONKERS, NY

Date Collected: 08/07/18 10:00
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/15/18 09:44
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 056970006/BICC **Lab Number:** L1830670

Project Number: 056970006 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-02 Date Collected: 08/07/18 10:00

Client ID: FB_08072018 Date Received: 08/07/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 056970006/BICC **Lab Number:** L1830670

Project Number: 056970006 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-02 Date Collected: 08/07/18 10:00

Client ID: FB_08072018 Date Received: 08/07/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	99		70-130

Project Name: 056970006/BICC
Project Number: 056970006
Lab Number: L1830670
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-03
Client ID: TB
Sample Location: YONKERS, NY

Date Collected: 08/07/18 00:00
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/15/18 10:12
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 056970006/BICC **Lab Number:** L1830670

Project Number: 056970006 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-03 Date Collected: 08/07/18 00:00

Client ID: TB Date Received: 08/07/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 056970006/BICC **Lab Number:** L1830670

Project Number: 056970006 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-03 Date Collected: 08/07/18 00:00

Client ID: TB Date Received: 08/07/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	99		70-130

Project Name: 056970006/BICC
Project Number: 056970006
Lab Number: L1830670
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-04
Client ID: RMW-1
Sample Location: YONKERS, NY
Date Collected: 08/07/18 16:00
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/15/18 11:08
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	12		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 056970006/BICC **Lab Number:** L1830670

Project Number: 056970006 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-04 Date Collected: 08/07/18 16:00

Client ID: RMW-1 Date Received: 08/07/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.42	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 056970006/BICC **Lab Number:** L1830670

Project Number: 056970006 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-04 Date Collected: 08/07/18 16:00

Client ID: RMW-1 Date Received: 08/07/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	101		70-130

Project Name: 056970006/BICC
Project Number: 056970006
Lab Number: L1830670
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-05
Client ID: RMW-3
Sample Location: YONKERS, NY
Date Collected: 08/07/18 13:00
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/15/18 11:36
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.98	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 056970006/BICC **Lab Number:** L1830670

Project Number: 056970006 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-05 Date Collected: 08/07/18 13:00

Client ID: RMW-3 Date Received: 08/07/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.29	J	ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 056970006/BICC **Lab Number:** L1830670

Project Number: 056970006 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-05 Date Collected: 08/07/18 13:00

Client ID: RMW-3 Date Received: 08/07/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	103		70-130

Project Name: 056970006/BICC
Project Number: 056970006
Lab Number: L1830670
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-06
Client ID: RMW-4
Sample Location: YONKERS, NY
Date Collected: 08/07/18 14:20
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/15/18 12:04
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 056970006/BICC **Lab Number:** L1830670

Project Number: 056970006 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-06 Date Collected: 08/07/18 14:20

Client ID: RMW-4 Date Received: 08/07/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 056970006/BICC **Lab Number:** L1830670

Project Number: 056970006 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-06 Date Collected: 08/07/18 14:20

Client ID: RMW-4 Date Received: 08/07/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	0.56	J	ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	102		70-130

Project Name: 056970006/BICC
Project Number: 056970006
Lab Number: L1830670
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-07
Client ID: RMW-5
Sample Location: YONKERS, NY
Date Collected: 08/07/18 09:25
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/15/18 12:32
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 056970006/BICC **Lab Number:** L1830670

Project Number: 056970006 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-07 Date Collected: 08/07/18 09:25

Client ID: RMW-5 Date Received: 08/07/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.75		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 056970006/BICC **Lab Number:** L1830670

Project Number: 056970006 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-07 Date Collected: 08/07/18 09:25

Client ID: RMW-5 Date Received: 08/07/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	103		70-130

Project Name: 056970006/BICC
Project Number: 056970006
Lab Number: L1830670
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-08
Client ID: RMW-6
Sample Location: YONKERS, NY

Date Collected: 08/07/18 08:05
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/15/18 13:56
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 056970006/BICC **Lab Number:** L1830670

Project Number: 056970006 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-08 Date Collected: 08/07/18 08:05

Client ID: RMW-6 Date Received: 08/07/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	0.71		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 056970006/BICC **Lab Number:** L1830670

Project Number: 056970006 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-08 Date Collected: 08/07/18 08:05

Client ID: RMW-6 Date Received: 08/07/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	102		70-130

Project Name: 056970006/BICC
Project Number: 056970006
Lab Number: L1830670
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-09
Client ID: TB
Sample Location: YONKERS, NY
Date Collected: 08/07/18 00:00
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/15/18 14:24
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 056970006/BICC **Lab Number:** L1830670

Project Number: 056970006 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-09 Date Collected: 08/07/18 00:00

Client ID: TB Date Received: 08/07/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	5.1		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 056970006/BICC **Lab Number:** L1830670

Project Number: 056970006 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-09 Date Collected: 08/07/18 00:00

Client ID: TB Date Received: 08/07/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	102		70-130

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/15/18 08:48
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1146728-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/15/18 08:48
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1146728-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/15/18 08:48
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1146728-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	99		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1146728-3 WG1146728-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	100		110		70-130	10		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	92		95		63-130	3		20
1,1,2-Trichloroethane	97		100		70-130	3		20
Tetrachloroethene	100		100		70-130	0		20
Chlorobenzene	99		100		75-130	1		20
Trichlorofluoromethane	120		120		62-150	0		20
1,2-Dichloroethane	100		100		70-130	0		20
1,1,1-Trichloroethane	100		110		67-130	10		20
Bromodichloromethane	99		100		67-130	1		20
trans-1,3-Dichloropropene	96		95		70-130	1		20
cis-1,3-Dichloropropene	99		100		70-130	1		20
1,1-Dichloropropene	110		110		70-130	0		20
Bromoform	90		91		54-136	1		20
1,1,2,2-Tetrachloroethane	94		92		67-130	2		20
Benzene	95		98		70-130	3		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	130		120		64-130	8		20
Bromomethane	45		**37**	Q	39-139	20		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1146728-3 WG1146728-4								
Vinyl chloride	130		130		55-140	0		20
Chloroethane	120		120		55-138	0		20
1,1-Dichloroethene	110		120		61-145	9		20
trans-1,2-Dichloroethene	110		110		70-130	0		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	95		93		70-130	2		20
1,3-Dichlorobenzene	98		97		70-130	1		20
1,4-Dichlorobenzene	96		98		70-130	2		20
Methyl tert butyl ether	96		97		63-130	1		20
p/m-Xylene	100		100		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	110		110		70-130	0		20
Dibromomethane	100		98		70-130	2		20
1,2,3-Trichloropropane	92		93		64-130	1		20
Acrylonitrile	110		100		70-130	10		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	**160**	Q	**160**	Q	36-147	0		20
Acetone	95		78		58-148	20		20
Carbon disulfide	120		120		51-130	0		20
2-Butanone	100		99		63-138	1		20
Vinyl acetate	120		120		70-130	0		20
4-Methyl-2-pentanone	82		90		59-130	9		20
2-Hexanone	76		76		57-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 056970006/BICC

Project Number: 056970006

Lab Number: L1830670

Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1146728-3 WG1146728-4								
Bromochloromethane	110		110		70-130	0		20
2,2-Dichloropropane	120		120		63-133	0		20
1,2-Dibromoethane	93		95		70-130	2		20
1,3-Dichloropropane	96		99		70-130	3		20
1,1,1,2-Tetrachloroethane	95		96		64-130	1		20
Bromobenzene	95		93		70-130	2		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	98		99		70-130	1		20
o-Chlorotoluene	99		98		70-130	1		20
p-Chlorotoluene	96		96		70-130	0		20
1,2-Dibromo-3-chloropropane	75		79		41-144	5		20
Hexachlorobutadiene	95		92		63-130	3		20
Isopropylbenzene	99		99		70-130	0		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	83		85		70-130	2		20
n-Propylbenzene	100		100		69-130	0		20
1,2,3-Trichlorobenzene	90		89		70-130	1		20
1,2,4-Trichlorobenzene	92		92		70-130	0		20
1,3,5-Trimethylbenzene	99		97		64-130	2		20
1,2,4-Trimethylbenzene	130		120		70-130	8		20
1,4-Dioxane	100		74		56-162	**30**	Q	20
p-Diethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 056970006/BICC

Project Number: 056970006

Lab Number: L1830670

Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1146728-3 WG1146728-4								
p-Ethyltoluene	100		100		70-130	0		20
1,2,4,5-Tetramethylbenzene	98		97		70-130	1		20
Ethyl ether	100		99		59-134	1		20
trans-1,4-Dichloro-2-butene	88		85		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		95		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	96		96		70-130
Dibromofluoromethane	101		100		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 056970006/BICC

Project Number: 056970006

Lab Number: L1830670

Report Date: 08/21/18

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1146728-6 WG1146728-7 QC Sample: L1830670-07 Client ID: RMW-5												
Methylene chloride	ND	10	11	110		11	110		70-130	0		20
1,1-Dichloroethane	ND	10	11	110		12	120		70-130	9		20
Chloroform	ND	10	11	110		11	110		70-130	0		20
Carbon tetrachloride	ND	10	10	100		11	110		63-132	10		20
1,2-Dichloropropane	ND	10	11	110		12	120		70-130	9		20
Dibromochloromethane	ND	10	9.6	96		9.8	98		63-130	2		20
1,1,2-Trichloroethane	ND	10	10	100		11	110		70-130	10		20
Tetrachloroethene	ND	10	9.1	91		9.2	92		70-130	1		20
Chlorobenzene	ND	10	9.6	96		9.8	98		75-130	2		20
Trichlorofluoromethane	ND	10	11	110		11	110		62-150	0		20
1,2-Dichloroethane	ND	10	10	100		11	110		70-130	10		20
1,1,1-Trichloroethane	ND	10	10	100		11	110		67-130	10		20
Bromodichloromethane	ND	10	10	100		10	100		67-130	0		20
trans-1,3-Dichloropropene	ND	10	9.1	91		9.3	93		70-130	2		20
cis-1,3-Dichloropropene	ND	10	9.5	95		10	100		70-130	5		20
1,1-Dichloropropene	ND	10	10	100		11	110		70-130	10		20
Bromoform	ND	10	9.0	90		9.7	97		54-136	7		20
1,1,2,2-Tetrachloroethane	ND	10	9.9	99		10	100		67-130	1		20
Benzene	ND	10	9.8	98		11	110		70-130	12		20
Toluene	ND	10	9.6	96		9.7	97		70-130	1		20
Ethylbenzene	ND	10	9.4	94		9.5	95		70-130	1		20
Chloromethane	ND	10	12	120		13	130		64-130	8		20
Bromomethane	ND	10	0.75J	**8**	Q	1.2J	**12**	Q	39-139	**46**	Q	20

Matrix Spike Analysis

Batch Quality Control

Project Name: 056970006/BICC

Project Number: 056970006

Lab Number: L1830670

Report Date: 08/21/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1146728-6 WG1146728-7 QC Sample: L1830670-07 Client ID: RMW-5												
Vinyl chloride	ND	10	12	120		12	120		55-140	0		20
Chloroethane	ND	10	12	120		12	120		55-138	0		20
1,1-Dichloroethene	ND	10	11	110		11	110		61-145	0		20
trans-1,2-Dichloroethene	ND	10	11	110		11	110		70-130	0		20
Trichloroethene	0.75	10	11	103		11	103		70-130	0		20
1,2-Dichlorobenzene	ND	10	9.1	91		9.3	93		70-130	2		20
1,3-Dichlorobenzene	ND	10	9.2	92		9.4	94		70-130	2		20
1,4-Dichlorobenzene	ND	10	9.0	90		9.3	93		70-130	3		20
Methyl tert butyl ether	ND	10	10	100		11	110		63-130	10		20
p/m-Xylene	ND	20	19	95		19	95		70-130	0		20
o-Xylene	ND	20	19	95		19	95		70-130	0		20
cis-1,2-Dichloroethene	ND	10	11	110		11	110		70-130	0		20
Dibromomethane	ND	10	11	110		11	110		70-130	0		20
1,2,3-Trichloropropane	ND	10	9.5	95		9.7	97		64-130	2		20
Acrylonitrile	ND	10	11	110		12	120		70-130	9		20
Styrene	ND	20	20	100		20	100		70-130	0		20
Dichlorodifluoromethane	ND	10	14	140		15	**150**	Q	36-147	7		20
Acetone	ND	10	11	110		12	120		58-148	9		20
Carbon disulfide	ND	10	12	120		12	120		51-130	0		20
2-Butanone	ND	10	11	110		11	110		63-138	0		20
Vinyl acetate	ND	10	11	110		12	120		70-130	9		20
4-Methyl-2-pentanone	ND	10	9.6	96		10	100		59-130	4		20
2-Hexanone	ND	10	8.3	83		8.8	88		57-130	6		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 056970006/BICC

Project Number: 056970006

Lab Number: L1830670

Report Date: 08/21/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1146728-6 WG1146728-7 QC Sample: L1830670-07 Client ID: RMW-5												
Bromochloromethane	ND	10	11	110		11	110		70-130	0		20
2,2-Dichloropropane	ND	10	9.8	98		9.9	99		63-133	1		20
1,2-Dibromoethane	ND	10	9.7	97		10	100		70-130	3		20
1,3-Dichloropropane	ND	10	10	100		10	100		70-130	0		20
1,1,1,2-Tetrachloroethane	ND	10	9.6	96		9.9	99		64-130	3		20
Bromobenzene	ND	10	9.2	92		9.3	93		70-130	1		20
n-Butylbenzene	ND	10	8.8	88		9.1	91		53-136	3		20
sec-Butylbenzene	ND	10	8.7	87		9.0	90		70-130	3		20
tert-Butylbenzene	ND	10	8.6	86		8.9	89		70-130	3		20
o-Chlorotoluene	ND	10	8.9	89		9.2	92		70-130	3		20
p-Chlorotoluene	ND	10	8.8	88		9.0	90		70-130	2		20
1,2-Dibromo-3-chloropropane	ND	10	8.6	86		8.6	86		41-144	0		20
Hexachlorobutadiene	ND	10	7.6	76		7.7	77		63-130	1		20
Isopropylbenzene	ND	10	8.8	88		9.0	90		70-130	2		20
p-Isopropyltoluene	ND	10	8.8	88		9.0	90		70-130	2		20
Naphthalene	ND	10	8.8	88		9.0	90		70-130	2		20
n-Propylbenzene	ND	10	8.8	88		9.1	91		69-130	3		20
1,2,3-Trichlorobenzene	ND	10	8.8	88		9.1	91		70-130	3		20
1,2,4-Trichlorobenzene	ND	10	8.8	88		9.0	90		70-130	2		20
1,3,5-Trimethylbenzene	ND	10	8.9	89		9.1	91		64-130	2		20
1,2,4-Trimethylbenzene	ND	10	11	110		11	110		70-130	0		20
1,4-Dioxane	ND	500	410	82		390	78		56-162	5		20
p-Diethylbenzene	ND	10	8.9	89		9.1	91		70-130	2		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 056970006/BICC

Project Number: 056970006

Lab Number: L1830670

Report Date: 08/21/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1146728-6 WG1146728-7 QC Sample: L1830670-07 Client ID: RMW-5												
p-Ethyltoluene	ND	10	9.3	93		9.5	95		70-130	2		20
1,2,4,5-Tetramethylbenzene	ND	10	8.9	89		9.2	92		70-130	3		20
Ethyl ether	ND	10	10	100		11	110		59-134	10		20
trans-1,4-Dichloro-2-butene	ND	10	5.1	**51**	Q	6.6	**66**	Q	70-130	**26**	Q	20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		98		70-130
4-Bromofluorobenzene	91		95		70-130
Dibromofluoromethane	101		103		70-130
Toluene-d8	96		97		70-130

SEMIVOLATILES

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-01
Client ID: WC_08072018
Sample Location: YONKERS, NY

Date Collected: 08/07/18 17:00
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 08/16/18 10:19
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 08/14/18 00:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	1.9	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: 056970006/BICC **Lab Number:** L1830670

Project Number: 056970006 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-01 Date Collected: 08/07/18 17:00

Client ID: WC_08072018 Date Received: 08/07/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Phenol	1.4	J	ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		21-120
Phenol-d6	70		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	97		41-149

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-01 D
Client ID: WC_08072018
Sample Location: YONKERS, NY

Date Collected: 08/07/18 17:00
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 08/17/18 11:53
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 08/14/18 00:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.50	0.07	5
2-Chloronaphthalene	0.55	J	ug/l	1.0	0.09	5
Fluoranthene	ND		ug/l	0.50	0.10	5
Hexachlorobutadiene	ND		ug/l	2.5	0.23	5
Naphthalene	1.9		ug/l	0.50	0.24	5
Benzo(a)anthracene	ND		ug/l	0.50	0.10	5
Benzo(a)pyrene	ND		ug/l	0.50	0.08	5
Benzo(b)fluoranthene	ND		ug/l	0.50	0.06	5
Benzo(k)fluoranthene	ND		ug/l	0.50	0.04	5
Chrysene	ND		ug/l	0.50	0.06	5
Acenaphthylene	0.16	J	ug/l	0.50	0.06	5
Anthracene	ND		ug/l	0.50	0.07	5
Benzo(ghi)perylene	ND		ug/l	0.50	0.07	5
Fluorene	ND		ug/l	0.50	0.07	5
Phenanthrene	ND		ug/l	0.50	0.12	5
Dibenzo(a,h)anthracene	ND		ug/l	0.50	0.06	5
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.50	0.06	5
Pyrene	ND		ug/l	0.50	0.10	5
2-Methylnaphthalene	0.34	J	ug/l	0.50	0.11	5
Pentachlorophenol	ND		ug/l	4.0	0.07	5
Hexachlorobenzene	ND		ug/l	4.0	0.05	5
Hexachloroethane	ND		ug/l	4.0	0.32	5

Project Name: 056970006/BICC **Lab Number:** L1830670

Project Number: 056970006 **Report Date:** 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-01 D
Client ID: WC_08072018
Sample Location: YONKERS, NY

Date Collected: 08/07/18 17:00
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		21-120
Phenol-d6	62		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	91		15-120
2,4,6-Tribromophenol	56		10-120
4-Terphenyl-d14	97		41-149

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/14/18 01:22
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/12/18 10:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1145610-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/14/18 01:22
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/12/18 10:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1145610-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/14/18 01:22
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/12/18 10:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1145610-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49
Tentatively Identified Compounds					
Total TIC Compounds	18.5	J	ug/l		
Aldol Condensates	18.5	J	ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	66		21-120
Phenol-d6	57		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	60		10-120
4-Terphenyl-d14	88		41-149

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 08/13/18 16:31
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 08/13/18 00:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1145700-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	ND		ug/l	0.10	0.02
Pentachlorophenol	ND		ug/l	0.80	0.01
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 08/13/18 16:31
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 08/13/18 00:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01 Batch: WG1145700-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		21-120
Phenol-d6	55		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	86		10-120
4-Terphenyl-d14	91		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1145610-2 WG1145610-3								
Acenaphthene	85		80		37-111	6		30
1,2,4-Trichlorobenzene	68		67		39-98	1		30
Hexachlorobenzene	81		78		40-140	4		30
Bis(2-chloroethyl)ether	73		74		40-140	1		30
2-Chloronaphthalene	76		74		40-140	3		30
1,2-Dichlorobenzene	67		67		40-140	0		30
1,3-Dichlorobenzene	66		65		40-140	2		30
1,4-Dichlorobenzene	65		65		36-97	0		30
3,3'-Dichlorobenzidine	69		66		40-140	4		30
2,4-Dinitrotoluene	80		76		48-143	5		30
2,6-Dinitrotoluene	78		78		40-140	0		30
Fluoranthene	81		77		40-140	5		30
4-Chlorophenyl phenyl ether	83		78		40-140	6		30
4-Bromophenyl phenyl ether	80		78		40-140	3		30
Bis(2-chloroisopropyl)ether	76		76		40-140	0		30
Bis(2-chloroethoxy)methane	73		74		40-140	1		30
Hexachlorobutadiene	71		71		40-140	0		30
Hexachlorocyclopentadiene	61		56		40-140	9		30
Hexachloroethane	67		66		40-140	2		30
Isophorone	73		74		40-140	1		30
Naphthalene	76		74		40-140	3		30
Nitrobenzene	72		76		40-140	5		30
NDPA/DPA	84		77		40-140	9		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1145610-2 WG1145610-3								
n-Nitrosodi-n-propylamine	76		77		29-132	1		30
Bis(2-ethylhexyl)phthalate	89		86		40-140	3		30
Butyl benzyl phthalate	83		78		40-140	6		30
Di-n-butylphthalate	82		78		40-140	5		30
Di-n-octylphthalate	81		79		40-140	3		30
Diethyl phthalate	86		82		40-140	5		30
Dimethyl phthalate	82		78		40-140	5		30
Benzo(a)anthracene	83		80		40-140	4		30
Benzo(a)pyrene	89		87		40-140	2		30
Benzo(b)fluoranthene	88		88		40-140	0		30
Benzo(k)fluoranthene	89		84		40-140	6		30
Chrysene	88		83		40-140	6		30
Acenaphthylene	78		75		45-123	4		30
Anthracene	84		80		40-140	5		30
Benzo(ghi)perylene	103		94		40-140	9		30
Fluorene	87		82		40-140	6		30
Phenanthrene	85		79		40-140	7		30
Dibenzo(a,h)anthracene	104		96		40-140	8		30
Indeno(1,2,3-cd)pyrene	104		97		40-140	7		30
Pyrene	80		73		26-127	9		30
Biphenyl	78		74		40-140	5		30
4-Chloroaniline	78		70		40-140	11		30
2-Nitroaniline	70		70		52-143	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1145610-2 WG1145610-3								
3-Nitroaniline	75		69		25-145	8		30
4-Nitroaniline	75		73		51-143	3		30
Dibenzofuran	84		79		40-140	6		30
2-Methylnaphthalene	77		75		40-140	3		30
1,2,4,5-Tetrachlorobenzene	75		71		2-134	5		30
Acetophenone	72		73		39-129	1		30
2,4,6-Trichlorophenol	73		70		30-130	4		30
p-Chloro-m-cresol	77		74		23-97	4		30
2-Chlorophenol	71		71		27-123	0		30
2,4-Dichlorophenol	74		72		30-130	3		30
2,4-Dimethylphenol	57		48		30-130	17		30
2-Nitrophenol	70		72		30-130	3		30
4-Nitrophenol	66		62		10-80	6		30
2,4-Dinitrophenol	64		63		20-130	2		30
4,6-Dinitro-o-cresol	69		68		20-164	1		30
Pentachlorophenol	66		63		9-103	5		30
Phenol	55		58		12-110	5		30
2-Methylphenol	68		68		30-130	0		30
3-Methylphenol/4-Methylphenol	68		68		30-130	0		30
2,4,5-Trichlorophenol	79		76		30-130	4		30
Benzoic Acid	63		66		10-164	5		30
Benzyl Alcohol	64		61		26-116	5		30
Carbazole	84		77		55-144	9		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 056970006/BICC

Project Number: 056970006

Lab Number: L1830670

Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1145610-2 WG1145610-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	60		62		21-120
Phenol-d6	55		55		10-120
Nitrobenzene-d5	74		75		23-120
2-Fluorobiphenyl	78		75		15-120
2,4,6-Tribromophenol	80		72		10-120
4-Terphenyl-d14	92		85		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1145700-2 WG1145700-3								
Acenaphthene	106		105		40-140	1		40
2-Chloronaphthalene	93		92		40-140	1		40
Fluoranthene	101		102		40-140	1		40
Hexachlorobutadiene	91		87		40-140	4		40
Naphthalene	93		90		40-140	3		40
Benzo(a)anthracene	102		104		40-140	2		40
Benzo(a)pyrene	93		94		40-140	1		40
Benzo(b)fluoranthene	90		94		40-140	4		40
Benzo(k)fluoranthene	104		111		40-140	7		40
Chrysene	104		106		40-140	2		40
Acenaphthylene	107		105		40-140	2		40
Anthracene	105		105		40-140	0		40
Benzo(ghi)perylene	102		102		40-140	0		40
Fluorene	108		109		40-140	1		40
Phenanthrene	98		99		40-140	1		40
Dibenzo(a,h)anthracene	98		100		40-140	2		40
Indeno(1,2,3-cd)pyrene	95		91		40-140	4		40
Pyrene	97		100		40-140	3		40
2-Methylnaphthalene	96		94		40-140	2		40
Pentachlorophenol	100		107		40-140	7		40
Hexachlorobenzene	97		95		40-140	2		40
Hexachloroethane	92		88		40-140	4		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 056970006/BICC

Project Number: 056970006

Lab Number: L1830670

Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01 Batch: WG1145700-2 WG1145700-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	71		66		21-120
Phenol-d6	63		58		10-120
Nitrobenzene-d5	88		86		23-120
2-Fluorobiphenyl	89		86		15-120
2,4,6-Tribromophenol	95		97		10-120
4-Terphenyl-d14	90		90		41-149

PETROLEUM HYDROCARBONS

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-01
Client ID: WC_08072018
Sample Location: YONKERS, NY

Date Collected: 08/07/18 17:00
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8015D(M)
Analytical Date: 08/11/18 11:58
Analyst: MZ

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	28	J	ug/l	50	3.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	83		70-130
4-Bromofluorobenzene	74		70-130

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-01
Client ID: WC_08072018
Sample Location: YONKERS, NY

Date Collected: 08/07/18 17:00
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8015D(M)
Analytical Date: 08/14/18 20:08
Analyst: MEO

Extraction Method: EPA 3510C
Extraction Date: 08/14/18 09:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	6090		ug/l	308	64.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	71		40-140

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-01
Client ID: WC_08072018
Sample Location: YONKERS, NY

Date Collected: 08/07/18 17:00
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 103,NJDEP EPH
Analytical Date: 08/17/18 09:48
Analyst: MEO

Extraction Method: EPA 3510C
Extraction Date: 08/16/18 18:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
Total EPH	6350		ug/l	360	360.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	90		40-140
o-Terphenyl	96		40-140

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 08/14/18 18:30
Analyst: MEO

Extraction Method: EPA 3510C
Extraction Date: 08/14/18 09:32

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 01 Batch: WG1146200-1					
TPH	ND		ug/l	200	42.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	79		40-140

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 08/11/18 11:17
Analyst: MZ

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 01 Batch: WG1146258-4					
Gasoline Range Organics	28	J	ug/l	50	3.0

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	93		70-130
4-Bromofluorobenzene	83		70-130

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 103,NJDEP EPH
Analytical Date: 08/17/18 16:59
Analyst: MEO

Extraction Method: EPA 3510C
Extraction Date: 08/16/18 18:59

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 01 Batch: WG1147480-1					
Total EPH	ND		ug/l	360	360.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	100		40-140
o-Terphenyl	98		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: 056970006/BICC

Project Number: 056970006

Lab Number: L1830670

Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 01 Batch: WG1146200-2								
TPH	87		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	79				40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: 056970006/BICC

Project Number: 056970006

Lab Number: L1830670

Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab	Associated sample(s): 01		Batch: WG1146258-2 WG1146258-3					
Gasoline Range Organics	85		86		80-120	1		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	99		99		70-130
4-Bromofluorobenzene	89		89		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 056970006/BICC

Project Number: 056970006

Lab Number: L1830670

Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01 Batch: WG1147480-2 WG1147480-3								
Total EPH	136		124		40-140	9		25
Nonane (C9)	74		61		40-140	19		25
Decane (C10)	85		72		40-140	17		25
Dodecane (C12)	99		91		40-140	8		25
Tetradecane (C14)	115		109		40-140	5		25
Hexadecane (C16)	122		116		40-140	5		25
Octadecane (C18)	124		119		40-140	4		25
Eicosane (C20)	126		119		40-140	6		25
Heneicosane (C21)	125		119		40-140	5		25
Docosane (C22)	130		119		40-140	9		25
Tetracosane (C24)	128		116		40-140	10		25
Hexacosane (C26)	134		119		40-140	12		25
Octacosane (C28)	134		119		40-140	12		25
Triacontane (C30)	134		122		40-140	9		25
Dotriacontane (C32)	133		123		40-140	8		25
Tetratriacontane (C34)	129		122		40-140	6		25
Hexatriacontane (C36)	132		124		40-140	6		25
Octatriacontane (C38)	135		127		40-140	6		25
Tetracontane (C40)	129		121		40-140	6		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 056970006/BICC

Project Number: 056970006

Lab Number: L1830670

Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01 Batch: WG1147480-2 WG1147480-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	109		101		40-140
o-Terphenyl	108		102		40-140

Matrix Spike Analysis

Batch Quality Control

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1146258-6 QC Sample: L1830670-01 Client ID: WC_08072018												
Gasoline Range Organics	28.J	400	350	87		-	-		80-120	-		20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	89				70-130
4-Bromofluorobenzene	78				70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1147480-4 QC Sample: L1800013-194 Client ID: MS Sample												
Total EPH	ND	3600	4670	130		-	-		40-140	-		50
Nonane (C9)	ND	100	57.3	57		-	-		40-140	-		50
Decane (C10)	ND	100	70.0	70		-	-		40-140	-		50
Dodecane (C12)	ND	100	85.2	85		-	-		40-140	-		50
Tetradecane (C14)	ND	100	105	105		-	-		40-140	-		50
Hexadecane (C16)	ND	100	122	122		-	-		40-140	-		50
Octadecane (C18)	ND	100	130	130		-	-		40-140	-		50
Eicosane (C20)	ND	100	134	134		-	-		40-140	-		50
Heneicosane (C21)	ND	100	133	133		-	-		40-140	-		50
Docosane (C22)	ND	100	135	135		-	-		40-140	-		50
Tetracosane (C24)	ND	100	134	134		-	-		40-140	-		50
Hexacosane (C26)	ND	100	130	130		-	-		40-140	-		50
Octacosane (C28)	ND	100	127	127		-	-		40-140	-		50
Triacontane (C30)	ND	100	128	128		-	-		40-140	-		50
Dotriacontane (C32)	ND	100	128	128		-	-		40-140	-		50
Tetratriacontane (C34)	ND	100	119	119		-	-		40-140	-		50
Hexatriacontane (C36)	ND	100	117	117		-	-		40-140	-		50
Octatriacontane (C38)	ND	100	109	109		-	-		40-140	-		50
Tetracontane (C40)	ND	100	107	107		-	-		40-140	-		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
Chloro-Octadecane	114				40-140

Matrix Spike Analysis

Batch Quality Control

Project Name: 056970006/BICC

Project Number: 056970006

Lab Number: L1830670

Report Date: 08/21/18

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab MS Sample	Associated sample(s): 01					QC Batch ID: WG1147480-4			QC Sample: L1800013-194			Client ID:

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
o-Terphenyl	114				40-140

Lab Duplicate Analysis
Batch Quality Control

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1146258-5 QC Sample: L1830670-01 Client ID: WC_08072018						
Gasoline Range Organics	28.J	33J	ug/l	NC		20

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	83		85		70-130
4-Bromofluorobenzene	74		70		70-130

Lab Duplicate Analysis
Batch Quality Control

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1147480-5 QC Sample: L1800013-194 Client ID: DUP Sample						
Total EPH	ND	ND	ug/l	NC		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	104		98		40-140
o-Terphenyl	111		103		40-140

PCBS

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-01
Client ID: WC_08072018
Sample Location: YONKERS, NY

Date Collected: 08/07/18 17:00
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/16/18 09:41
Analyst: JW

Extraction Method: EPA 3510C
Extraction Date: 08/14/18 07:52
Cleanup Method: EPA 3665A
Cleanup Date: 08/15/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/16/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	**361**	Q	30-150	B
Decachlorobiphenyl	**310**	Q	30-150	B

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-02
Client ID: FB_08072018
Sample Location: YONKERS, NY

Date Collected: 08/07/18 10:00
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/16/18 09:54
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 08/14/18 07:52
Cleanup Method: EPA 3665A
Cleanup Date: 08/15/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/16/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-04
Client ID: RMW-1
Sample Location: YONKERS, NY

Date Collected: 08/07/18 16:00
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/16/18 10:08
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 08/14/18 07:52
Cleanup Method: EPA 3665A
Cleanup Date: 08/15/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/16/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-05
Client ID: RMW-3
Sample Location: YONKERS, NY

Date Collected: 08/07/18 13:00
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/16/18 10:21
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 08/14/18 07:52
Cleanup Method: EPA 3665A
Cleanup Date: 08/15/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/16/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-06
Client ID: RMW-4
Sample Location: YONKERS, NY

Date Collected: 08/07/18 14:20
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/16/18 10:35
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 08/14/18 07:52
Cleanup Method: EPA 3665A
Cleanup Date: 08/15/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/16/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	0.041	J	ug/l	0.083	0.032	1	B
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	0.041	J	ug/l	0.083	0.032	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-07
Client ID: RMW-5
Sample Location: YONKERS, NY

Date Collected: 08/07/18 09:25
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/16/18 10:48
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 08/14/18 07:52
Cleanup Method: EPA 3665A
Cleanup Date: 08/15/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/16/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	0.072	J	ug/l	0.083	0.049	1	B
Aroclor 1254	ND		ug/l	0.083	0.039	1	B
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	0.072	J	ug/l	0.083	0.032	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	95		30-150	B

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-08
Client ID: RMW-6
Sample Location: YONKERS, NY

Date Collected: 08/07/18 08:05
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 08/16/18 11:29
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 08/14/18 07:52
Cleanup Method: EPA 3665A
Cleanup Date: 08/15/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/16/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.034	1	A
Aroclor 1221	ND		ug/l	0.083	0.067	1	A
Aroclor 1232	ND		ug/l	0.083	0.046	1	A
Aroclor 1242	ND		ug/l	0.083	0.039	1	A
Aroclor 1248	ND		ug/l	0.083	0.049	1	A
Aroclor 1254	ND		ug/l	0.083	0.039	1	A
Aroclor 1260	ND		ug/l	0.083	0.032	1	A
Aroclor 1262	ND		ug/l	0.083	0.035	1	A
Aroclor 1268	ND		ug/l	0.083	0.034	1	A
PCBs, Total	ND		ug/l	0.083	0.032	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	101		30-150	B

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 08/14/18 01:25
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 08/13/18 17:48
Cleanup Method: EPA 3665A
Cleanup Date: 08/13/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/14/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02,04-08 Batch: WG1146017-1						
Aroclor 1016	ND		ug/l	0.083	0.034	A
Aroclor 1221	ND		ug/l	0.083	0.067	A
Aroclor 1232	ND		ug/l	0.083	0.046	A
Aroclor 1242	ND		ug/l	0.083	0.039	A
Aroclor 1248	ND		ug/l	0.083	0.049	A
Aroclor 1254	ND		ug/l	0.083	0.039	A
Aroclor 1260	ND		ug/l	0.083	0.032	A
Aroclor 1262	ND		ug/l	0.083	0.035	A
Aroclor 1268	ND		ug/l	0.083	0.034	A
PCBs, Total	ND		ug/l	0.083	0.032	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	100		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 056970006/BICC

Project Number: 056970006

Lab Number: L1830670

Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02,04-08 Batch: WG1146017-2 WG1146017-3									
Aroclor 1016	68		70		40-140	2		50	A
Aroclor 1260	71		72		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		87		30-150	A
Decachlorobiphenyl	75		77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		100		30-150	B
Decachlorobiphenyl	92		96		30-150	B

Matrix Spike Analysis

Batch Quality Control

Project Name: 056970006/BICC

Project Number: 056970006

Lab Number: L1830670

Report Date: 08/21/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02,04-08 QC Batch ID: WG1146017-4 WG1146017-5 QC Sample: L1830670-07 Client ID: RMW-5													
Aroclor 1016	ND	1.78	1.07	60		1.12	63		40-140	5		50	A
Aroclor 1260	ND	1.78	1.09	61		1.12	63		40-140	3		50	A

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		75		30-150	A
Decachlorobiphenyl	67		71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		83		30-150	B
Decachlorobiphenyl	86		87		30-150	B

METALS

Project Name: 056970006/BICC
Project Number: 056970006
Lab Number: L1830670
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-01
Client ID: WC_08072018
Sample Location: YONKERS, NY
Sample Depth:
Matrix: Water

Date Collected: 08/07/18 17:00
Date Received: 08/07/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1.69		mg/l	0.0100	0.00327	1	08/14/18 08:35	08/15/18 16:31	EPA 3005A	1,6020B	AM
Antimony, Total	0.00151	J	mg/l	0.00400	0.00042	1	08/14/18 08:35	08/15/18 16:31	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00211		mg/l	0.00050	0.00016	1	08/14/18 08:35	08/15/18 16:31	EPA 3005A	1,6020B	AM
Barium, Total	0.4683		mg/l	0.00250	0.00086	5	08/14/18 08:35	08/16/18 10:40	EPA 3005A	1,6020B	AM
Beryllium, Total	0.00028	J	mg/l	0.00050	0.00010	1	08/14/18 08:35	08/15/18 16:31	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00027		mg/l	0.00020	0.00005	1	08/14/18 08:35	08/15/18 16:31	EPA 3005A	1,6020B	AM
Calcium, Total	145.		mg/l	0.100	0.0394	1	08/14/18 08:35	08/15/18 16:31	EPA 3005A	1,6020B	AM
Chromium, Total	0.01204		mg/l	0.00100	0.00017	1	08/14/18 08:35	08/15/18 16:31	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00320		mg/l	0.00050	0.00016	1	08/14/18 08:35	08/15/18 16:31	EPA 3005A	1,6020B	AM
Copper, Total	0.01666		mg/l	0.00100	0.00038	1	08/14/18 08:35	08/15/18 16:31	EPA 3005A	1,6020B	AM
Iron, Total	11.9		mg/l	0.0500	0.0191	1	08/14/18 08:35	08/15/18 16:31	EPA 3005A	1,6020B	AM
Lead, Total	0.00551		mg/l	0.00500	0.00171	5	08/14/18 08:35	08/16/18 10:40	EPA 3005A	1,6020B	AM
Magnesium, Total	128.		mg/l	0.0700	0.0242	1	08/14/18 08:35	08/15/18 16:31	EPA 3005A	1,6020B	AM
Manganese, Total	0.4210		mg/l	0.00100	0.00044	1	08/14/18 08:35	08/15/18 16:31	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/14/18 15:49	08/15/18 20:12	EPA 7470A	1,7470A	EA
Nickel, Total	0.01016		mg/l	0.00200	0.00055	1	08/14/18 08:35	08/15/18 16:31	EPA 3005A	1,6020B	AM
Potassium, Total	31.8		mg/l	0.100	0.0309	1	08/14/18 08:35	08/15/18 16:31	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	08/14/18 08:35	08/15/18 16:31	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	08/14/18 08:35	08/15/18 16:31	EPA 3005A	1,6020B	AM
Sodium, Total	987.		mg/l	0.500	0.146	5	08/14/18 08:35	08/16/18 10:40	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00250	0.00071	5	08/14/18 08:35	08/16/18 10:40	EPA 3005A	1,6020B	AM
Vanadium, Total	0.00644		mg/l	0.00500	0.00157	1	08/14/18 08:35	08/15/18 16:31	EPA 3005A	1,6020B	AM
Zinc, Total	0.05749		mg/l	0.01000	0.00341	1	08/14/18 08:35	08/15/18 16:31	EPA 3005A	1,6020B	AM

Project Name: 056970006/BICC
Project Number: 056970006
Lab Number: L1830670
Report Date: 08/21/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1146159-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	08/14/18 08:35	08/15/18 15:23	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	08/14/18 08:35	08/15/18 15:23	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	08/14/18 08:35	08/15/18 15:23	1,6020B	AM
Barium, Total	ND		mg/l	0.00050	0.00017	1	08/14/18 08:35	08/15/18 15:23	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	08/14/18 08:35	08/15/18 15:23	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	08/14/18 08:35	08/15/18 15:23	1,6020B	AM
Calcium, Total	ND		mg/l	0.100	0.0394	1	08/14/18 08:35	08/15/18 15:23	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	08/14/18 08:35	08/15/18 15:23	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	08/14/18 08:35	08/15/18 15:23	1,6020B	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	08/14/18 08:35	08/15/18 15:23	1,6020B	AM
Iron, Total	ND		mg/l	0.0500	0.0191	1	08/14/18 08:35	08/15/18 15:23	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	08/14/18 08:35	08/15/18 15:23	1,6020B	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	08/14/18 08:35	08/15/18 15:23	1,6020B	AM
Manganese, Total	ND		mg/l	0.00100	0.00044	1	08/14/18 08:35	08/15/18 15:23	1,6020B	AM
Nickel, Total	ND		mg/l	0.00200	0.00055	1	08/14/18 08:35	08/15/18 15:23	1,6020B	AM
Potassium, Total	ND		mg/l	0.100	0.0309	1	08/14/18 08:35	08/15/18 15:23	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	08/14/18 08:35	08/15/18 15:23	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	08/14/18 08:35	08/15/18 15:23	1,6020B	AM
Sodium, Total	ND		mg/l	0.100	0.0293	1	08/14/18 08:35	08/15/18 15:23	1,6020B	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	08/14/18 08:35	08/15/18 15:23	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	08/14/18 08:35	08/15/18 15:23	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	08/14/18 08:35	08/15/18 15:23	1,6020B	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1146387-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	08/14/18 15:49	08/15/18 20:04	1,7470A	EA

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 056970006/BICC

Project Number: 056970006

Lab Number: L1830670

Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1146159-2								
Aluminum, Total	110		-		80-120	-		
Antimony, Total	81		-		80-120	-		
Arsenic, Total	103		-		80-120	-		
Barium, Total	98		-		80-120	-		
Beryllium, Total	108		-		80-120	-		
Cadmium, Total	103		-		80-120	-		
Calcium, Total	106		-		80-120	-		
Chromium, Total	101		-		80-120	-		
Cobalt, Total	100		-		80-120	-		
Copper, Total	99		-		80-120	-		
Iron, Total	109		-		80-120	-		
Lead, Total	101		-		80-120	-		
Magnesium, Total	113		-		80-120	-		
Manganese, Total	101		-		80-120	-		
Nickel, Total	101		-		80-120	-		
Potassium, Total	106		-		80-120	-		
Selenium, Total	107		-		80-120	-		
Silver, Total	102		-		80-120	-		
Sodium, Total	108		-		80-120	-		
Thallium, Total	100		-		80-120	-		
Vanadium, Total	104		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 056970006/BICC

Project Number: 056970006

Lab Number: L1830670

Report Date: 08/21/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1146159-2					
Zinc, Total	105	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1146387-2					
Mercury, Total	84	-	80-120	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1146159-3 QC Sample: L1830708-01 Client ID: MS Sample												
Aluminum, Total	ND	2	2.36	118		-	-		75-125	-		20
Antimony, Total	0.00091J	0.5	0.5173	103		-	-		75-125	-		20
Arsenic, Total	ND	0.12	0.1396	116		-	-		75-125	-		20
Barium, Total	0.0970	2	2.327	112		-	-		75-125	-		20
Beryllium, Total	ND	0.05	0.06048	121		-	-		75-125	-		20
Cadmium, Total	ND	0.051	0.05997	118		-	-		75-125	-		20
Calcium, Total	133.	10	147	**140**	Q	-	-		75-125	-		20
Chromium, Total	0.0002J	0.2	0.2248	112		-	-		75-125	-		20
Cobalt, Total	0.0004J	0.5	0.5478	110		-	-		75-125	-		20
Copper, Total	0.0023	0.25	0.2848	113		-	-		75-125	-		20
Iron, Total	0.031J	1	1.31	**131**	Q	-	-		75-125	-		20
Lead, Total	ND	0.51	0.5661	111		-	-		75-125	-		20
Magnesium, Total	12.3	10	24.4	121		-	-		75-125	-		20
Manganese, Total	0.0004J	0.5	0.5601	112		-	-		75-125	-		20
Nickel, Total	0.0009J	0.5	0.5651	113		-	-		75-125	-		20
Potassium, Total	1.07	10	12.4	113		-	-		75-125	-		20
Selenium, Total	ND	0.12	0.130	108		-	-		75-125	-		20
Silver, Total	ND	0.05	0.05713	114		-	-		75-125	-		20
Sodium, Total	17.8	10	29.7	119		-	-		75-125	-		20
Thallium, Total	ND	0.12	0.1312	109		-	-		75-125	-		20
Vanadium, Total	ND	0.5	0.5769	115		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1146159-3 QC Sample: L1830708-01 Client ID: MS Sample									
Zinc, Total	0.0159	0.5	0.6006	117	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1146387-3 QC Sample: L1830670-01 Client ID: WC_08072018									
Mercury, Total	ND	0.005	0.00384	77	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 056970006/BICC

Project Number: 056970006

Lab Number: L1830670

Report Date: 08/21/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1146159-4 QC Sample: L1830708-01 Client ID: DUP Sample						
Antimony, Total	0.00091J	0.00257J	mg/l	NC		20
Beryllium, Total	ND	ND	mg/l	NC		20
Thallium, Total	ND	0.00018J	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1146387-4 QC Sample: L1830670-01 Client ID: WC_08072018						
Mercury, Total	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

SAMPLE RESULTS

Lab ID: L1830670-01
Client ID: WC_08072018
Sample Location: YONKERS, NY

Date Collected: 08/07/18 17:00
Date Received: 08/07/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	08/14/18 07:20	08/14/18 10:45	1,9010C/9012B	LH
pH (H)	7.5		SU	-	NA	1	-	08/08/18 23:50	121,4500H+-B	AS
Sulfide	ND		mg/l	0.10	0.10	1	08/11/18 17:00	08/12/18 01:47	1,9030B	CW
Flash Point	>150		deg F	70	NA	1	-	08/13/18 11:10	1,1010A	BR
Cyanide, Reactive	ND		mg/l	1.0	1.0	1	08/13/18 21:00	08/13/18 23:26	125,7.3	TL
Sulfide, Reactive	ND		mg/l	1.0	1.0	1	08/13/18 21:00	08/13/18 23:22	125,7.3	TL

Project Name: 056970006/BICC
Project Number: 056970006
Lab Number: L1830670
Report Date: 08/21/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1145548-1										
Sulfide	ND		mg/l	0.10	0.10	1	08/11/18 17:00	08/12/18 01:40	1,9030B	CW
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1146043-1										
Sulfide, Reactive	ND		mg/l	1.0	1.0	1	08/13/18 21:00	08/13/18 23:21	125,7.3	TL
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1146044-1										
Cyanide, Reactive	ND		mg/l	1.0	1.0	1	08/13/18 21:00	08/13/18 23:25	125,7.3	TL
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1146138-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	08/14/18 07:20	08/14/18 10:41	1,9010C/9012B	LH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 056970006/BICC

Project Number: 056970006

Lab Number: L1830670

Report Date: 08/21/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1144365-1								
pH	100		-		99-101	-		5
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1145548-2								
Sulfide	85		-		75-125	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1145881-1								
Flash Point	100		-		96-104	-		
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1146043-2								
Sulfide, Reactive	117		-		60-125	-		25
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1146044-2								
Cyanide, Reactive	108		-		30-125	-		25
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1146138-2 WG1146138-3								
Cyanide, Total	88		94		85-115	7		20

Matrix Spike Analysis
Batch Quality Control

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1145548-4 QC Sample: L1800008-84 Client ID: MS Sample												
Sulfide	ND	0.43	0.29	**67**	Q	-	-		70-130	-		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1146138-4 WG1146138-5 QC Sample: L1830675-07 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.187	94		0.187	94		80-120	0		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 056970006/BICC

Project Number: 056970006

Lab Number: L1830670

Report Date: 08/21/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1144365-2 QC Sample: L1830670-01 Client ID: WC_08072018						
pH (H)	7.5	7.4	SU	1		5
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1145548-3 QC Sample: L1800008-83 Client ID: DUP Sample						
Sulfide	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1146043-3 QC Sample: L1830670-01 Client ID: WC_08072018						
Sulfide, Reactive	ND	ND	mg/l	NC		25
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1146044-3 QC Sample: L1830670-01 Client ID: WC_08072018						
Cyanide, Reactive	ND	ND	mg/l	NC		25

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1830670-01A	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260(14)
L1830670-01B	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260(14)
L1830670-01C	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260(14)
L1830670-01D	Vial HCl preserved	A	NA		4.0	Y	Absent		TPH-GRO(14)
L1830670-01E	Vial HCl preserved	A	NA		4.0	Y	Absent		TPH-GRO(14)
L1830670-01F	Vial HCl preserved	A	NA		4.0	Y	Absent		TPH-GRO(14)
L1830670-01G	Plastic 250ml HNO3 preserved	A	<2	<2	4.0	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1830670-01H	Plastic 250ml NaOH preserved	A	>12	>12	4.0	Y	Absent		TCN-9010(14)
L1830670-01I	Amber 120ml unpreserved	A	7	7	4.0	Y	Absent		NYTCL-8082-LVI(7)
L1830670-01J	Amber 120ml unpreserved	A	7	7	4.0	Y	Absent		NYTCL-8082-LVI(7)
L1830670-01K	Amber 250ml unpreserved	A	7	7	4.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1830670-01L	Amber 250ml unpreserved	A	7	7	4.0	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1830670-01M	Amber 500ml unpreserved	A	7	7	4.0	Y	Absent		REACTS(7),REACTCN(7),FLASH(),PH-4500(.01)
L1830670-01N	Amber 1000ml unpreserved	A	7	7	4.0	Y	Absent		TPH-DRO-D(7)
L1830670-01O	Amber 1000ml unpreserved	A	7	7	4.0	Y	Absent		TPH-DRO-D(7)
L1830670-01P	Amber 1000ml HCl preserved	A	<2	<2	4.0	Y	Absent		NJEPH-TPH-CAT1(14)
L1830670-01Q	Amber 1000ml HCl preserved	A	<2	<2	4.0	Y	Absent		NJEPH-TPH-CAT1(14)
L1830670-01R	Plastic 250ml Zn Ac/NaOH preserved split	A	7	7	4.0	N	Absent		SULFIDE-9030(7)

*Values in parentheses indicate holding time in days

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1830670-02A	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1830670-02B	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1830670-02C	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1830670-02D	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8082-LVI(7)
L1830670-02E	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8082-LVI(7)
L1830670-03A	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260(14)
L1830670-03B	Vial HCl preserved	A	NA		4.0	Y	Absent		NYTCL-8260(14)
L1830670-04A	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1830670-04B	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1830670-04C	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1830670-04D	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8082-LVI(7)
L1830670-04E	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8082-LVI(7)
L1830670-05A	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1830670-05B	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1830670-05C	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1830670-05D	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8082-LVI(7)
L1830670-05E	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8082-LVI(7)
L1830670-06A	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1830670-06B	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1830670-06C	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1830670-06D	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8082-LVI(7)
L1830670-06E	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8082-LVI(7)
L1830670-07A	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1830670-07A1	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1830670-07A2	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1830670-07B	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1830670-07B1	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1830670-07B2	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name: 056970006/BICC
Project Number: 056970006

Lab Number: L1830670
Report Date: 08/21/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1830670-07C	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1830670-07C1	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1830670-07C2	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1830670-07D	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8082-LVI(7)
L1830670-07D1	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8082-LVI(7)
L1830670-07D2	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8082-LVI(7)
L1830670-07E	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8082-LVI(7)
L1830670-07E1	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8082-LVI(7)
L1830670-07E2	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8082-LVI(7)
L1830670-08A	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1830670-08B	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1830670-08C	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1830670-08D	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8082-LVI(7)
L1830670-08E	Amber 120ml unpreserved	B	7	7	2.8	Y	Absent		NYTCL-8082-LVI(7)
L1830670-09A	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)
L1830670-09B	Vial HCl preserved	B	NA		2.8	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	056970006/BICC	**Lab Number:**	L1830670
Project Number:	056970006	**Report Date:**	08/21/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers

Project Name:	056970006/BICC	**Lab Number:**	L1830670
Project Number:	056970006	**Report Date:**	08/21/18

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	056970006/BICC	**Lab Number:**	L1830670
Project Number:	056970006	**Report Date:**	08/21/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

103 Analysis of Extractable Petroleum Hydrocarbon Compounds (EPH) in Aqueous and Soil/Sediment/Sludge Matrices. New Jersey Department of Environmental Protection, Site Remediation Program, (Version 1.1), Document # NJDEP EPH 10/08, Revision 3, August 2010.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW JERSEY CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 8-7-18

ALPHA Job #: L1830670

Client Information
Client: PS+S
Address: 1 Larkin Plaza
Yonkers, NY
Phone: 703-252-4015
Fax:
Email: scaporizzo@pssantos.com

Project Information
Project Name: 056970006 / RICC
Project Location: Yonkers, NY
Project #
(Use Project name as Project #) ☑
Project Manager: Scott Caporizzo
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ NJ Full / Reduced
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☑ Same as Client Info
PO #

Regulatory Requirement
☐ SRS Residential/Non Residential
☐ SRS Impact to Groundwater
☐ NJ Ground Water Quality Standards
☐ NJ IGW SPLP Leachate Criteria
☑ Other

Site Information
Is this site impacted by Petroleum? Yes ☐
Petroleum Product:

These samples have been previously analyzed by Alpha ☐

For EPH, selection is REQUIRED:
☑ Category 1
☐ Category 2

For VOC, selection is REQUIRED:
☐ 1,4-Dioxane
☐ 8011

Other project specific requirements/comments: Contact Scott Caporizzo for questions
Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC 8260C	PCB 8082A	Flash Point	TPH-DRO/GRO	EPH/TPH Cat I	pH	TAL Metals, Mercury	Cyanide, Sulfide	Sample Specific Comments	Total Bottles
30670-01	WC_0807 2018	8/7/18	1700	GW	JL	J	J	✓	✓	✓	—	—	—		18
02	FB_0807 2018		1000			✓	✓								5
03	TB					✓									2
04	RMW-1		1600			✓	✓								5
05	RMW-3		1300			—	✓								
06	RMW-4		1420			—	✓								
07	RMW-5		0925			—	✓								
08	RMW-6	↓	0805			—	✓								↓
09	TB	↓	~~0120~~	↓	↓	✓									2
07 MS	MS/MSD	↓	0930	↓	↓	✓	✓								10

Preservative Code: 8-8-18 JW
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	V	A	A	V/A	A	P	P	P
Preservative	B	A	A	B/A	B	A	C	E

Relinquished By:	Date/Time	Received By:	Date/Time
Jeff Lambert	8/7/18 1730	Michael Lobo AAL	8/7/18 1730
Michael Lobo AAL	8/7/18 1842	D. Santos AAL	8/7/18 1845
D. Santos AAL	8/7/18 2300		8/7/18 2300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGR[illegible] TO BE BOUND BY A TERMS & CONDITI[illegible] (See reverse side.)

Form No: 01-14 HC (rev. 30-Sept-2013)

ATTACHMENT E

Data Usability Summary Reports

1 Larkin Plaza
2nd Floor
Yonkers, NY 10701

t. 914.509.8600

www.psands.com

Data Usability Summary Report

Site: Former BICC Cables Site		Case Number: C360051
SDG Number(s): L1830670	Date Rec'd by Lab: 08/07/2018	Lab Report Date: 08/21/2018
Reviewed by: Jeffrey Lamborn		Date Reviewed: 09/28/2018

Number of samples of each matrix in data package: _8__ water _0_ soil
Analyses requested: ☑ Volatile organics ☐ Semivolatile organics ☐ Metals/cyanide ☑ PCBs ☐ Pesticides / Herbicides

		Yes	No	
1.	Is the data package complete as defined under the requirements for NYSDEC ASP Category B deliverables?	☑	☐	
	Exceptions:			☐ Details attached
	Actions:			☐ Details attached
2.	Have all holding times been met (see QA/QC Plan)?	☑	☐	
	Exceptions:			
	Actions/effect on results:			☐ Details attached
3.	Do all the QC data fall within the protocol required limits and specifications? (blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls, sample data)	☐	☑	
	Reported exceptions: See pages 3 and 4 of lab report			☑ Details attached
	Actions/effect on results: J qualified data			☐ Details attached
4.	Have all of the data been generated using established and agreed upon analytical protocols? Test method(s): 8260C; 8082A;	☑	☐	
	Reported exceptions:			☐ Details attached
	Actions/effect on results:			☐ Details attached
5.	Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms?	☑	☐	☐ NA
	Exceptions:			☐ Details attached
	Actions/effect on results:			☐ Details attached
6.	Have the correct data qualifiers been used by the laboratory?	☑	☐	
	Exceptions:			
				☐ Details attached

Specific issues reported by laboratory (check all that apply):

☐ Sample(s) reanalyzed at dilution		☐ Details attached
☑ Blank contamination	VOC Trip Blank w/ Acetone, see page 4	☑ Details attached
☐ Matrix effects		☐ Details attached
☐ Other:		☐ Details attached

Changes by reviewer (attach markup of data form):

☐ Data qualifiers added/changed	☐ Details attached
☐ Some data rejected (R)	☐ Details attached

ATTACHMENT F

IDW Manifests

1 Larkin Plaza
2nd Floor
Yonkers, NY 10701

t. 914.509.8600

www.psands.com

PHONE: 631.608.8810
FAX: 631.608.8811

BROOKSIDE ENVIRONMENTAL
www.brooksideweb.com

Transporter Permit #1A-644
EPA ID #NYR000081661
BIC # 2935

NON-HAZARDOUS MANIFEST

1. Customer's US EPA ID NO.: Not Required
Document No.: —
2. Page 1 of: 1

3. Generator Site Address and Mailing Address
Extell Waterfront Development, LLC
Former BICC Cables Site
One Point Street, Yonkers, NY 10701
4. Phone 203-252-4015

A. Document Number: BEI 101018-2
B. State ID:

5. Transporter 1 Company Name: Brookside Environmental, Inc.
6. US EPA ID Number: NYR000081661
C. State Transporter's ID: 1A-644
D. Transporter's Phone: (631) 608-8810

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address
Clean Water of New York
3249 Richmond Terrace
Staten Island, NY 10303
10. US EPA ID Number: NYD000968545
G. State Facility's ID:
H. Facility's Phone: (718) 981-4600

GENERATOR

11. US DOT Description (Including Proper Shipping Name)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	L. Waste No.
a. Non-hazardous waste solid, nos Non-RCRA/Non-DOT Hazardous	X	DM	X	P	
b. Non-hazardous waste liquid, nos Non-RCRA/Non-DOT Hazardous	1	DM	50	G	
c.					
d.					

J. Additional Descriptions for Materials Listed Above: groundwater.
K. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information
a) App# 237-028
b) App# 237-029

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

Printed / Type Name	Signature	DATE Month	Day	Year
		10	10	18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Type Name	Signature	DATE Month	Day	Year
Oscar Paredes		10	10	18

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed / Type Name	Signature	DATE Month	Day	Year
As agent for Extell Waterfront Development, LLC		10	10	18

FACILITY

19. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted.

Printed / Typed Name	DATE Month	Day	Year
Alexian Acevedo	10	10	18

PHONE: 631.608.8810
FAX: 631.608.8811

BROOKSIDE ENVIRONMENTAL
www.brooksideweb.com

Transporter Permit #1A-644
EPA ID #NYR000081661
BIC # 2935

#2301

NON-HAZARDOUS MANIFEST

1. Customer's US EPA ID NO.	Document No.	2. Page 1 of
Not Required		1

3. Generator Site Address and Mailing Address
EXTELL WATERFRONT DEVELOPMENT, LLC
FORMER BICC CABLES SITE
ONE POINT STREET
4. Phone YONKERS, NY 10701

A. Document Number

B. State ID

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID	1A-644
Brookside Environmental, Inc.	NYR000081661	D. Transporter's Phone	(631) 608-8810
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID	
		F. Transporter's Phone	

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility's ID
Clean Water of New York 3249 Richmond Terrace Staten Island, NY 10303	NYD000968545	H. Facility's Phone (718) 981-4600

11. US DOT Description (Including Proper Shipping Name)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	L. Waste No.
a. Non-hazardous waste solid, nos Non-RCRA/Non-DOT Hazardous	X	DM	X	P	
b. Non-hazardous waste liquid, nos Non-RCRA/Non-DOT Hazardous	001	DM	55	G	
c.					
d.					

J. Additional Descriptions for Materials Listed Above
b) Purge Water

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
a) App# 237-028
b) App# 237-029

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

Printed / Type Name	Signature	DATE Month	Day	Year
Scott Cappiello	as agent for Extell Dev LLC	4	4	18

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed / Type Name	Signature	DATE Month	Day	Year
Nicholas Hallinan		4	4	18

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed / Type Name	Signature	DATE Month	Day	Year

19. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted.

Printed / Typed Name	DATE Month	Day	Year
Carlos Herrera	4	11	18

GENERATOR | TRANSPORTER | FACILITY

ELECTRONIC MAIL SUBMISSION

April 13, 2018
05697-0009

Education
Energy Utility
Hospitality
Public Sector
Real Estate
Science & Technology

Mr. Matthew Hubicki
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7017

RE: **Former BICC Cables Corporation Site (Site)**
City of Yonkers, Westchester, New York
NYSDEC Site No. C360051
Semi-Annual Groundwater Monitoring Results Report (1st Round)

Dear Mr. Hubicki,

On behalf of Extell Waterfront Development, LLC (Extell), Paulus, Sokolowski and Sartor Engineering, PC (PS&S) has prepared this Semi-Annual Groundwater Monitoring Results Report (the Report) for the Former BICC Cables Corporation Site (the Site) located in the City of Yonkers, New York. This Report presents the findings of the 1st round of Semi-Annual Groundwater Monitoring completed at the Site in compliance with the New York State Department of Environmental Conservation (NYSDEC)-approved Site Management Plan (SMP), dated April 14, 2017.

1.0 Introduction

As per the SMP, Section 3.2, and further detailed in SMP Attachment 8 (Groundwater Monitoring Work Plan), groundwater level and quality monitoring will be performed periodically on the five established Site groundwater monitoring wells for 2 years on a semi-annual basis to assess groundwater conditions after the remediation and to determine the nature and extent of the impact to groundwater being caused by the off-Site source of VOCs/PCBs entering the Site.

This report documents and presents the findings of the 1st round of semi-annual groundwater sampling activities completed in February 2018.

2.0 Groundwater Sampling

2.1 Groundwater Sampling Activities

During a February 2018 Site visit, four of the five SMP Monitoring Plan groundwater monitoring wells (RMW-2 through RMW-5) were not visible at the surface and had to be located via test pits. After locating the four groundwater monitoring wells, PVC

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risers were installed for ease of access and in anticipation of future access. In addition, each groundwater monitoring well was gauged for depth to water and depth to bottom. Measurements are summarized in **Table 2.1** below.

TABLE 2.1- Groundwater Monitoring Plan - Well Measurements

Well ID	Length of Riser Installed (ft.)	Observed Depth to Bottom (ft.)	Depth to Water (bgs.)	Depth to Sample (bgs.)
RMW-1	No Riser	31.0	25.39	30.35
RMW-2	5	N/A	N/A	N/A
RMW-3	16.61	31.56	1.33	7.63
RMW-4	8	5.96	2.24	5.1
RMW-5	8.15	18.80	5.44	10.5

In accordance with the SMP, PS&S collected one sample from RMW-1 and RMW-4 on February 21, 2018, one sample from RMW-5 on February 22, 2018 and one sample from RMW-3 on February 23, 2018 using low-flow sampling techniques. Samples were submitted to Hampton-Clarke (HC) for TCL VOC and PCB analysis. One field blank (FB_02212018), one duplicate sample (DUP), one test blank (TB) and one matrix spike (MW-4_02212018 MS/MSD) were also collected and submitted to HC during the February 21, 2018 sampling event.

Groundwater monitoring well RMW-2 was not sampled due to an obstruction in the well at approximately nine feet below the top of the newly installed PVC riser.

The Groundwater Monitoring Well Location Map (Enclosure 1 of the SMP Attachment 8) is provided as **Attachment A.** In addition, SMP Groundwater Monitoring Well Construction Logs (Enclosure 4 of the SMP Attachment 8) are provided as **Attachment B**.

2.2 Groundwater Sample Results

Groundwater sample results were compared to Division of Water Technical and Operational Guidance Series 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Class GA, dated June 1998 (TOGS GA).

All sample results reported non-detects for PCBs and VOCs except for the following:

- Chloroform was detected at 1.4 micrograms/liter (ug/L) in sample RMW-1_02212018, which is below the TOGS GA of 7 ug/L.
- Tetrachloroethene was detected at 6.1 ug/L in sample RMW-1_02212018, which is above the TOGS GA of 5 ug/L.

Please see **Attachment C** for the groundwater sample results summary table and **Attachment D** for full lab reports.

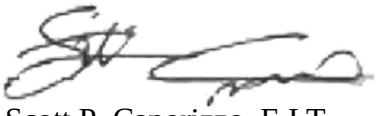
3.0 Conclusions and Recommendations

PCBs were not detected in any of the groundwater samples collected and only Tetrachloroethene was detected above NY TOGS GA in one of the four groundwater samples. Based on our review of groundwater sample results (and provided as an option in Section 3.2.4 of the SMP with NYSDEC approval), PS&S proposes that RMW-2 (i.e., the groundwater monitoring well with the observed obstruction) be decommissioned without replacement and that future sampling events proceed with the four operable groundwater monitoring wells.

Extell and PS&S appreciate your review of this Report and requested approval of the proposed decommissioning of RMW-2. In accordance with the SMP Appendix 8, electronic data deliverables (EDDs) were completed and submitted to NYSDEC on April 9, 2018. In addition, Data Usability Summary Reports (DUSRs) have been completed and are provided as **Attachment E**. The second round of semi-annual groundwater sampling is scheduled for August 2018.

Should you have any questions or require additional information, please contact Scott Caporizzo at 914-226-3722 or scaporizzo@psands.com or me at 732-584-0435 or lsalinas@psands.com.

Very truly yours,



Scott P. Caporizzo, E.I.T.
PAULUS, SOKOLOWSKI AND SARTOR ENGINEERING, P.C.

Attachments:

1. Attachment A – Groundwater Monitoring Well Location Map
2. Attachment B – Groundwater Monitoring Well Construction Logs
3. Attachment C – Groundwater Sample Results Summary Table
4. Attachment D – Hampton-Clarke Full Lab Reports
5. Attachment E – Data Usability Summary Reports

CC: David Crosby, NYSDEC; Jack Mandelbaum, Extell; Hindy Gorelick, Extell
M. Salinas, PS&S; J. Szeman, PS&S

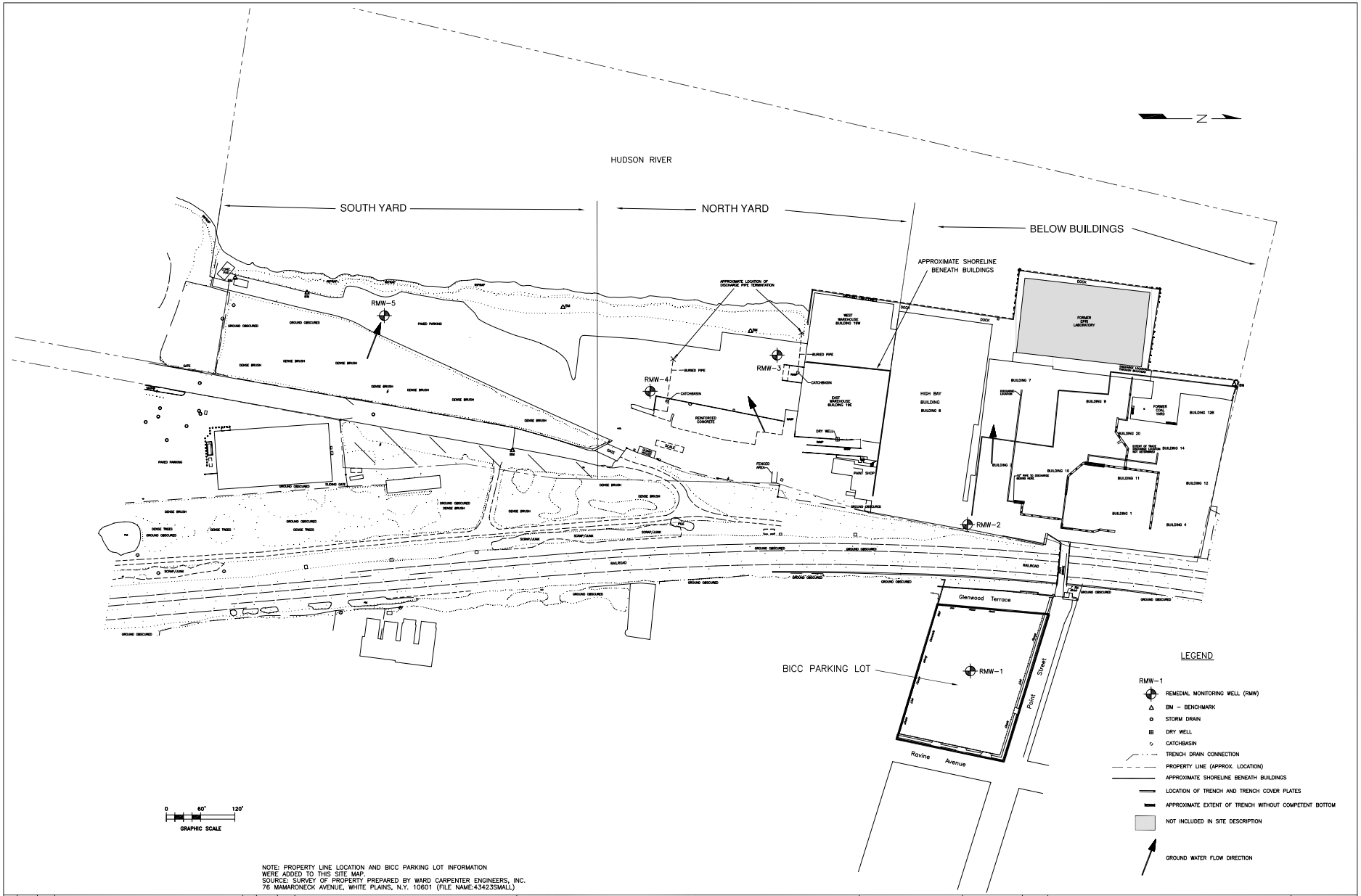
ATTACHMENT A

Groundwater Monitoring Well Location Map

1 Larkin Plaza
2nd Floor
Yonkers, NY 10701

t. 914.509.8600

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NOTE: PROPERTY LINE LOCATION AND BICC PARKING LOT INFORMATION WERE ADDED TO THIS SITE MAP.
SOURCE: SURVEY OF PROPERTY PREPARED BY WARD CARPENTER ENGINEERS, INC. 76 MAMARONECK AVENUE, WHITE PLAINS, N.Y. 10601 (FILE NAME:43423SMALL)

NO.	DATE	APPR.	REVISION

BICC YONKERS REMEDIAL INVESTIGATION/FEASIBILITY STUDY

BICC CABLES CORPORATION

Environmental Resources Management

ERM

CHECKED	
DESIGN ENGINEER	
PROJECT ENGINEER	
PROJECT MANAGER	
APPROVED	
APPROVED	

PROPOSED LOCATION OF POST REMEDIATION GROUND WATER MONITORING WELLS

DRAWN	E.M.F.	DATE	10/21/03
SCALE	GRAPHIC	JOB NO.	0001367.07
REVISED DATE		FILE NAME	0001367-07-00BYS

FIGURE NO. 9-1

REV. NO.

SHEET OF

7122

ATTACHMENT B

Groundwater Monitoring Well Construction Logs

1 Larkin Plaza
2nd Floor
Yonkers, NY 10701

t. 914.509.8600

www.psands.com

Monitoring Well ID: RMW-1

Client: Black Acre Parnters OPS

Location: Yonkers, NY

Project: BICC1201

Operational Area: Point Street Parking Lot

Site: 233 Alexander Street

Oversight Personnel: OKM

H2M GROUP

H2M Associates, Inc.

Engineers, Scientists, & Planners

119 Cherry Hill Road, Suite 200

Parsippany, NJ 07054

(862) 207-5900

www.h2m.com

Subsurface Profile

Sample

Depth (ft b.g.)	Symbol	Description	Moisture Content	PID Response	Blows/6"	Recovery	Well Completion Details	Remarks
0		ASPHALT: Asphalt						
1		SAND : Light brown medium sand						
2								
3								
4								
5								
6		SAND AND GRAVEL: Light brown mediium sand w/ gravel			14 5 3 6	12"		
7								
8		GRAVEL AND SAND: grey/black gravely sand w/ clay			5 6 4 9	15"		
9								
10		SAND AND GRAVEL: brown med-fine sand w/ gravel			11 12 11 10	18"		
11								
12					13 9 7 9	18"		
13								
14					15 21 11 15	21"		
15								
16		SAND : light brown to brown fine sand			8 7 11 4	21"		
17								
18					7 10 9 11	18"		
19								
20		SAND AND GRAVEL: brown med-fine sand w/ gravel and silt			8 9 12 8	15"		
21								
22					8 9 14 6	15"		
23								
24					2 2 3 4	12"		
25								
26		CLAYEY SAND: reddish-brown clayey sand			3 8 7 10	12"		
27								GW encountered @ 27' bsg
28					16 22 23 15	24"		
29								
30		SAND : yellowish-brown med-fine sand w/ black-reddish-brown mottling			31 37 31 46	24"		
31								
32		CLAY AND SAND: reddish-brown sandy clay			41 47 7 17	18"		
33								
34		SAND AND CLAY: reddish brown clayey med-fine sand			28 24 37 47	12"		
35								
36					50 2			
37								End of Boring @ 37' bsg
38								

Constructed By: Aquifer Drilling & Testing, Inc.

Casing Diameter: 2

Construction Method: Hollow Stem Auger

Weather:

Construction Date: 11/17/11

Sheet: 1 of 1

Monitoring Well ID: RMW-2

Client: Black Acre Parnters OPS

Location: Yonkers, NY

Project: BICC1201

Operational Area: North End / Below Building Area

Site: 233 Alexander Street

Oversight Personnel: OKM

H2M GROUP
H2M Associates, Inc.
Engineers, Scientists, & Planners
119 Cherry Hill Road, Suite 200
Parsippany, NJ 07054
(862) 207-5900
www.h2m.com

Subsurface Profile

Sample

Depth (ft b.g.)	Symbol	Description	Moisture Content	PID Response	Blows/6"	Recovery	Well Completion Details	Remarks
0		GRAVEL: QP Stone/ gravel						
5		SILTY SAND: brown silty sand w/ gravel			14 7 4 4	12"		
7		BLANK: black/brown slage w/ sand			2 2 1 1	6"		GW encountered @ 7' bsg
8		CLAY: reddish-brown hard clay			3 2 3 5	15"		
11		SILTY SAND: reddish-brown very fine sand w/ silt			1 15 5 13	24"		
13		SAND AND GRAVEL: reddish-brown/dark brown very fine sand w/gravel			3 3 5 11	24"		Rainbow sheen
15		SAND: brown med-fine sand			2 4 8 12	18"		
17								End of Boring @ 17' bsg
18								

Constructed By: Aquifer Drilling & Testing, Inc.

Casing Diameter: 2

Construction Method: Hollow Stem Auger

Weather:

Construction Date: 11/17/11

Sheet: 1 of 1

Monitoring Well ID: RMW-3

Client: Black Acre Parnters OPS
Location: Yonkers, NY
Project: BICC1201
Operational Area: North Yard Area
Site: 233 Alexander Street
Oversight Personnel: OKM

H2M GROUP
H2M Associates, Inc.
Engineers, Scientists, & Planners
119 Cherry Hill Road, Suite 200
Parsippany, NJ 07054
(862) 207-5900
www.h2m.com

Subsurface Profile				Sample					
Depth (ft b.g.)	Symbol	Description	Moisture Content	PID Response	Blows/6"	Recovery	Well Completion Details	Remarks
0		GRAVEL AND SAND: greyish-brown gravely sand						
5		GRAVEL: grey clayey gravel			2, 4, 2, 2	6"		
7					2, 2, 3, 3	6"		
9		GRAVEL AND SAND: grey sandy gravel w/ clay			3, 3, 2, 2	12"		
11		SAND AND GRAVEL: grey sandy gravel			3, 2, 2, 2	6"		
13					4, 5, 3, 2	24"		
15		CLAY: black hard clay			1, 1, 1, 2	12"		
17								End of Boring @ 17' bsg
18								

GW encountered @ 6' bsg

Constructed By: Aquifer Drilling & Testing, Inc.
Casing Diameter: 2
Construction Method: Hollow Stem Auger
Weather:
Construction Date: 11/17/11
Sheet: 1 of 1

Monitoring Well ID: RMW-4

Client: Black Acre Parnters OPS

Location: Yonkers, NY

Project: BICC1201

Operational Area: North Yard Area

Site: 233 Alexander Street

Oversight Personnel: OKM

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Parsippany, NJ 07054
(862) 207-5900
www.h2m.com

Subsurface Profile			Sample				Well Completion Details	Remarks
Depth (ft b.g.)	Symbol	Description	Moisture Content	PID Response	Blows/6"	Recovery		
0		ASPHALT: Asphalt						
1		SAND AND GRAVEL: brown sandy gravel						
2								
3								
4								
5								
6		CLAY: black hard clay			6 3 4 3	6"		
7					1 1	4"		GW encountered @ 7' bsg
8					1 1			
9		SAND AND CLAY: grey sandy soft clay w/ gravel			2 2	12"		
10					1 3			
11		BLANK: debris: brick/wood/gravel			3 5	4"		
12					6 7			
13					1 1	8"		
14					2 14			
15					11 12	8"		
16		CLAY: black hard clay			6 7			
17								End of Boring @ 17' bsg
18								

Constructed By: Aquifer Drilling & Testing, Inc.

Casing Diameter: 2

Construction Method: Hollow Stem Auger

Weather:

Construction Date: 11/21/11

7139

Sheet: 1 of 1

Monitoring Well ID: RMW-5

Client: Black Acre Parnters OPS

Location: Yonkers, NY

Project: BICC1201

Operational Area: South Yard Area

Site: 233 Alexander Street

Oversight Personnel: OKM

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Subsurface Profile				Sample					
Depth (ft b.g.)	Symbol	Description	Moisture Content	PID Response	Blows/6"	Recovery	Well Completion Details	Remarks
0		ASPHALT: Asphalt						
1		SAND AND CLAY: brown clayey sand w/ small pieces of brick						
2								
3								GW encountered @ 3' bsg
4								
5		GRAVEL AND SAND: brown med-fine sand w/ gravel			5	18"		
6					2			
					12			
		BLANK: debris/ fill material: black sand w/ pieces of wood, brick & cinders			6			
7					4	12"		
					6			
8					5			
					7			
9					6	12"		
					8			
10					10			
					12			
11					7	12"		
					2			
12					1			
					1			
13								End of Boring @ 13' bsg
14								

Constructed By: Aquifer Drilling & Testing, Inc.

Casing Diameter: 2

Construction Method: Hollow Stem Auger

Weather:

Construction Date: 11/17/11

7140

Sheet: 1 of 1

ATTACHMENT C

Groundwater Sample Results Summary Table

1 Larkin Plaza
2nd Floor
Yonkers, NY 10701

t. 914.509.8600

www.psands.com

Table C1
BICC Cables Corporation Site
Groundwater Sample Results Summary Table
February 2018

CLIENT ID:		NY TOGS WaterQualStds (ug/L)	RMW-1_02212018			RMW-3_02232018			RMW-4_02212018			RMW-5_02212018		
LAB ID:			AD02764-001			AD02799-001			AD02764-003			AD02764-002		
COLLECTION DATE:			2/21/2018			2/23/2018			2/21/2018			2/21/2018		
SAMPLE MATRIX:			Aqueous			Aqueous			Aqueous			Aqueous		
SAMPLE UNITS:			ug/L			ug/L			ug/L			ug/L		
Analyte	**CAS Number**		**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**	**Result**	**Q**	**RL**
VOLATILE ORGANICS														
1,1,1-Trichloroethane	71-55-6	5	ND		1	ND		1	ND		1	ND		1
1,1,2,2-Tetrachloroethane	79-34-5	5	ND		1	ND		1	ND		1	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5	ND		1	ND		1	ND		1	ND		1
1,1,2-Trichloroethane	79-00-5	1	ND		1	ND		1	ND		1	ND		1
1,1-Dichloroethane	75-34-3	5	ND		1	ND		1	ND		1	ND		1
1,1-Dichloroethene	75-35-4	5	ND		1	ND		1	ND		1	ND		1
1,2,3-Trichlorobenzene	87-61-6	NA	ND		1	ND		1	ND		1	ND		1
1,2,4-Trichlorobenzene	120-82-1	5	ND		1	ND		1	ND		1	ND		1
1,2-Dibromo-3-chloropropane	96-12-8	0.04	ND		1	ND		1	ND		1	ND		1
1,2-Dibromoethane	106-93-4	NA	ND		1	ND		1	ND		1	ND		1
1,2-Dichlorobenzene	95-50-1	3	ND		1	ND		1	ND		1	ND		1
1,2-Dichloroethane	107-06-2	0.6	ND		0.5	ND		0.5	ND		0.5	ND		0.5
1,2-Dichloropropane	78-87-5	1	ND		1	ND		1	ND		1	ND		1
1,3-Dichlorobenzene	541-73-1	3	ND		1	ND		1	ND		1	ND		1
1,4-Dichlorobenzene	106-46-7	3	ND		1	ND		1	ND		1	ND		1
1,4-Dioxane	123-91-1	NA	ND		50	ND		50	ND		50	ND		50
2-Butanone	78-93-3	NA	ND		1	ND		1	ND		1	ND		1
2-Hexanone	591-78-6	NA	ND		1	ND		1	ND		1	ND		1
4-Methyl-2-pentanone	108-10-1	NA	ND		1	ND		1	ND		1	ND		1
Acetone	67-64-1	NA	ND		5	ND		5	ND		5	ND		5
Benzene	71-43-2	1	ND		0.5	ND		0.5	ND		0.5	ND		0.5
Bromochloromethane	74-97-5	5	ND		1	ND		1	ND		1	ND		1
Bromodichloromethane	75-27-4	NA	ND		1	ND		1	ND		1	ND		1
Bromoform	75-25-2	NA	ND		1	ND		1	ND		1	ND		1
Bromomethane	74-83-9	5	ND		1	ND		1	ND		1	ND		1
Carbon disulfide	75-15-0	NA	ND		1	ND		1	ND		1	ND		1
Carbon tetrachloride	56-23-5	5	ND		1	ND		1	ND		1	ND		1
Chlorobenzene	108-90-7	5	ND		1	ND		1	ND		1	ND		1
Chloroethane	75-00-3	5	ND		1	ND		1	ND		1	ND		1
Chloroform	67-66-3	7	1.4		1	ND		1	ND		1	ND		1
Chloromethane	74-87-3	5	ND		1	ND		1	ND		1	ND		1
cis-1,2-Dichloroethene	156-59-2	5	ND		1	ND		1	ND		1	ND		1
cis-1,3-Dichloropropene	10061-01-5	0.4	ND		1	ND		1	ND		1	ND		1
Cyclohexane	110-82-7	NA	ND		1	ND		1	ND		1	ND		1
Dibromochloromethane	124-48-1	NA	ND		1	ND		1	ND		1	ND		1
Dichlorodifluoromethane	75-71-8	5	ND		1	ND		1	ND		1	ND		1
Ethylbenzene	100-41-4	5	ND		1	ND		1	ND		1	ND		1
Isopropylbenzene	98-82-8	5	ND		1	ND		1	ND		1	ND		1
m&p-Xylenes	179601-23-1	5	ND		1	ND		1	ND		1	ND		1
Methyl Acetate	79-20-9	NA	ND		1	ND		1	ND		1	ND		1
Methylcyclohexane	108-87-2	NA	ND		1	ND		1	ND		1	ND		1
Methylene chloride	75-09-2	5	ND		1	ND		1	ND		1	ND		1
Methyl-t-butyl ether	1634-04-4	NA	ND		0.5	ND		0.5	ND		0.5	ND		0.5
o-Xylene	95-47-6	5	ND		1	ND		1	ND		1	ND		1
Styrene	100-42-5	5	ND		1	ND		1	ND		1	ND		1
Tetrachloroethene	127-18-4	5	6.1		1	ND		1	ND		1	ND		1
Toluene	108-88-3	5	ND		1	ND		1	ND		1	ND		1
trans-1,2-Dichloroethene	156-60-5	5	ND		1	ND		1	ND		1	ND		1
trans-1,3-Dichloropropene	10061-02-6	0.4	ND		1	ND		1	ND		1	ND		1
Trichloroethene	79-01-6	5	ND		1	ND		1	ND		1	ND		1
Trichlorofluoromethane	75-69-4	5	ND		1	ND		1	ND		1	ND		1
Vinyl chloride	75-01-4	2	ND		1	ND		1	ND		1	ND		1
Xylenes (Total)	1330-20-7	5	ND		1	ND		1	ND		1	ND		1
PCBs														
Aroclor (Total)	1336-36-3	0.09	ND		0.25	ND		0.25	ND		0.25	ND		0.26
Aroclor-1016	12674-11-2	0.09	ND		0.25	ND		0.25	ND		0.25	ND		0.26
Aroclor-1221	11104-28-2	0.09	ND		0.25	ND		0.25	ND		0.25	ND		0.26
Aroclor-1232	11141-16-5	0.09	ND		0.25	ND		0.25	ND		0.25	ND		0.26
Aroclor-1242	53469-21-9	0.09	ND		0.25	ND		0.25	ND		0.25	ND		0.26
Aroclor-1248	12672-29-6	0.09	ND		0.25	ND		0.25	ND		0.25	ND		0.26
Aroclor-1254	11097-69-1	0.09	ND		0.25	ND		0.25	ND		0.25	ND		0.26
Aroclor-1260	11096-82-5	0.09	ND		0.25	ND		0.25	ND		0.25	ND		0.26
Aroclor-1262	37324-23-5	0.09	ND		0.25	ND		0.25	ND		0.25	ND		0.26
Aroclor-1268	11100-14-4	0.09	ND		0.25	ND		0.25	ND		0.25	ND		0.26

NOTES:

TOGS GA: Division of Water Technical and Operational Guidance Series 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations; June 1998.

ND = Not Detected

NA = Not Applicable

ug/L = microgram per Liter

Q = Data Qualifier

Result exceeds NY TOGS Water Quality Standards

ATTACHMENT D

Hampton-Clarke Full Lab Reports

1 Larkin Plaza
2nd Floor
Yonkers, NY 10701

t. 914.509.8600

www.psands.com

Hampton-Clarke
Analytical & Field Services

175 ROUTE 46 WEST, UNIT D · FAIRFIELD, NJ 07004
2 MADISON ROAD, FAIRFIELD, NJ 07004
800-426-9992 · 973-244-9770
FAX: 973-244-9787
WWW.HCVLAB.COM

Project: Former BICC Cables Site

Client PO: Not Available

Report To: Paulus, Sokolowski & Sartor, Inc.
1 Larkin Plaza
2nd Floor
Yonkers, NY 10701

Attn: Scott Caporizzo

Received Date: 2/22/2018

Report Date: 3/26/2018

Deliverables: NYDOH-CatB

Lab ID: AD02764

Lab Project No: 8022222

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Hampton-Clarke to all parties shall not exceed Hampton-Clarke's total fee for analytical services rendered.

Robin Cousineau - Quality Assurance Director OR **Jean Revolus - Laboratory Director**

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

NELAP ACCREDITED TNI LABORATORY

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SDG Narrative

HC Case Narrative

Client: Paulus, Sokolowski & Sartor, Inc. **HC Project:** 8022222
Project: Former BICC Cables Site

Hampton-Clarke (HC) received the following samples on 02/22/2018:

Client ID	HC Sample ID	Matrix	Analysis
RMW-1_02212018	AD02764-001	Aqueous	VO (8260C), PCB (8082A)
RMW-5_02212018	AD02764-002	Aqueous	VO (8260C), PCB (8082A)
RMW-4_02212018	AD02764-003	Aqueous	VO (8260C), PCB (8082A)
RMW-4_02212018 MS	AD02764-004	Aqueous	VO (8260C), PCB (8082A)
RMW-4_02212018 MSD	AD02764-005	Aqueous	VO (8260C), PCB (8082A)
DUP	AD02764-006	Aqueous	VO (8260C), PCB (8082A)
FB_02212018	AD02764-007	Aqueous	VO (8260C), PCB (8082A)
TB	AD02764-008	Aqueous	VO (8260C)

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batch 67258 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD, Matrix Spike and/or Matrix Spike Duplicate for batches 67240 and 67258 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

2-Chloroethylvinylether did not recover in the Matrix Spike and Matrix Spike Duplicate in batches 67240 and 67258 due to acid preservation of sample. 2-Chloroethylvinylether readily decomposes under acidic conditions. The recovery of 2-Chloroethylvinylether is within QC limits in the Laboratory Control Sample. Please refer to the applicable Form 3 for the recoveries.

PCB Analysis:

Data conforms to method requirements.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Robin Cousineau
Quality Assurance Director

Or

Jean Revolus
Laboratory Director

3/26/2018
Date

Reporting Limit Definitions

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

MDL = Method Detection Limit

RL* = Reporting Limit

ND = Not Detected

RT = Retention Time

NA = Not Applicable

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Data Package Summary Forms

HC Report of Analysis

Client: Paulus, Sokolowski & Sartor, Inc. **HC Project #:** 8022222

Project: Former BICC Cables Site

Sample ID: RMW-1_02212018 **Collection Date:** 2/21/2018
Lab#: AD02764-001 **Receipt Date:** 2/22/2018
Matrix: Aqueous

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	**1**	**ug/l**	**1.0**	**1.4**
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND

Sample ID: RMW-1_02212018 **Collection Date:** 2/21/2018
Lab#: AD02764-001 **Receipt Date:** 2/22/2018
Matrix: Aqueous

Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	**1**	**ug/l**	**1.0**	**6.1**
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: RMW-5_02212018 **Collection Date:** 2/21/2018
Lab#: AD02764-002 **Receipt Date:** 2/22/2018
Matrix: Aqueous

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.26	ND
Aroclor-1016	1	ug/l	0.26	ND
Aroclor-1221	1	ug/l	0.26	ND
Aroclor-1232	1	ug/l	0.26	ND
Aroclor-1242	1	ug/l	0.26	ND
Aroclor-1248	1	ug/l	0.26	ND
Aroclor-1254	1	ug/l	0.26	ND
Aroclor-1260	1	ug/l	0.26	ND
Aroclor-1262	1	ug/l	0.26	ND
Aroclor-1268	1	ug/l	0.26	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND

Sample ID: RMW-5_02212018 **Collection Date:** 2/21/2018
Lab#: AD02764-002 **Receipt Date:** 2/22/2018
Matrix: Aqueous

Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: RMW-4_02212018 **Collection Date:** 2/21/2018
Lab#: AD02764-003 **Receipt Date:** 2/22/2018
Matrix: Aqueous

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND

Sample ID: RMW-4_02212018 **Collection Date:** 2/21/2018
Lab#: AD02764-003 **Receipt Date:** 2/22/2018
Matrix: Aqueous

Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: RMW-4_02212018 MS
Lab#: AD02764-004
Matrix: Aqueous

Collection Date: 2/21/2018
Receipt Date: 2/22/2018

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.26	9.9
Aroclor-1016	1	ug/l	0.26	5.1
Aroclor-1221	1	ug/l	0.26	ND
Aroclor-1232	1	ug/l	0.26	ND
Aroclor-1242	1	ug/l	0.26	ND
Aroclor-1248	1	ug/l	0.26	ND
Aroclor-1254	1	ug/l	0.26	ND
Aroclor-1260	1	ug/l	0.26	4.8
Aroclor-1262	1	ug/l	0.26	ND
Aroclor-1268	1	ug/l	0.26	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	17
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	14
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	20
1,1,2-Trichloroethane	1	ug/l	1.0	16
1,1-Dichloroethane	1	ug/l	1.0	16
1,1-Dichloroethene	1	ug/l	1.0	16
1,2,3-Trichlorobenzene	1	ug/l	1.0	15
1,2,4-Trichlorobenzene	1	ug/l	1.0	16
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	13
1,2-Dibromoethane	1	ug/l	1.0	15
1,2-Dichlorobenzene	1	ug/l	1.0	16
1,2-Dichloroethane	1	ug/l	0.50	16
1,2-Dichloropropane	1	ug/l	1.0	16
1,3-Dichlorobenzene	1	ug/l	1.0	17
1,4-Dichlorobenzene	1	ug/l	1.0	17
1,4-Dioxane	1	ug/l	50	840
2-Butanone	1	ug/l	1.0	15
2-Hexanone	1	ug/l	1.0	13
4-Methyl-2-pentanone	1	ug/l	1.0	13
Acetone	1	ug/l	5.0	73
Benzene	1	ug/l	0.50	16
Bromochloromethane	1	ug/l	1.0	17
Bromodichloromethane	1	ug/l	1.0	16
Bromoform	1	ug/l	1.0	15
Bromomethane	1	ug/l	1.0	13
Carbon disulfide	1	ug/l	1.0	17
Carbon tetrachloride	1	ug/l	1.0	18
Chlorobenzene	1	ug/l	1.0	16
Chloroethane	1	ug/l	1.0	16
Chloroform	1	ug/l	1.0	16
Chloromethane	1	ug/l	1.0	12
cis-1,2-Dichloroethene	1	ug/l	1.0	17
cis-1,3-Dichloropropene	1	ug/l	1.0	14
Cyclohexane	1	ug/l	1.0	20
Dibromochloromethane	1	ug/l	1.0	15
Dichlorodifluoromethane	1	ug/l	1.0	11
Ethylbenzene	1	ug/l	1.0	17
Isopropylbenzene	1	ug/l	1.0	17
m&p-Xylenes	1	ug/l	1.0	31
Methyl Acetate	1	ug/l	1.0	15
Methylcyclohexane	1	ug/l	1.0	21

Sample ID: RMW-4_02212018 MS
Lab#: AD02764-004
Matrix: Aqueous

Collection Date: 2/21/2018
Receipt Date: 2/22/2018

Methylene chloride	1	ug/l	1.0	16
Methyl-t-butyl ether	1	ug/l	0.50	16
o-Xylene	1	ug/l	1.0	16
Styrene	1	ug/l	1.0	16
Tetrachloroethene	1	ug/l	1.0	16
Toluene	1	ug/l	1.0	15
trans-1,2-Dichloroethene	1	ug/l	1.0	17
trans-1,3-Dichloropropene	1	ug/l	1.0	15
Trichloroethene	1	ug/l	1.0	19
Trichlorofluoromethane	1	ug/l	1.0	17
Vinyl chloride	1	ug/l	1.0	15
Xylenes (Total)	1	ug/l	1.0	47

Sample ID: RMW-4_02212018 MSD
Lab#: AD02764-005
Matrix: Aqueous

Collection Date: 2/21/2018
Receipt Date: 2/22/2018

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	**1**	**ug/l**	**0.26**	**9.8**
Aroclor-1016	**1**	**ug/l**	**0.26**	**5.0**
Aroclor-1221	1	ug/l	0.26	ND
Aroclor-1232	1	ug/l	0.26	ND
Aroclor-1242	1	ug/l	0.26	ND
Aroclor-1248	1	ug/l	0.26	ND
Aroclor-1254	1	ug/l	0.26	ND
Aroclor-1260	**1**	**ug/l**	**0.26**	**4.8**
Aroclor-1262	1	ug/l	0.26	ND
Aroclor-1268	1	ug/l	0.26	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	**1**	**ug/l**	**1.0**	**18**
1,1,2,2-Tetrachloroethane	**1**	**ug/l**	**1.0**	**14**
1,1,2-Trichloro-1,2,2-trifluoroethane	**1**	**ug/l**	**1.0**	**22**
1,1,2-Trichloroethane	**1**	**ug/l**	**1.0**	**17**
1,1-Dichloroethane	**1**	**ug/l**	**1.0**	**17**
1,1-Dichloroethene	**1**	**ug/l**	**1.0**	**17**
1,2,3-Trichlorobenzene	**1**	**ug/l**	**1.0**	**16**
1,2,4-Trichlorobenzene	**1**	**ug/l**	**1.0**	**15**
1,2-Dibromo-3-chloropropane	**1**	**ug/l**	**1.0**	**12**
1,2-Dibromoethane	**1**	**ug/l**	**1.0**	**16**
1,2-Dichlorobenzene	**1**	**ug/l**	**1.0**	**16**
1,2-Dichloroethane	**1**	**ug/l**	**0.50**	**18**
1,2-Dichloropropane	**1**	**ug/l**	**1.0**	**17**
1,3-Dichlorobenzene	**1**	**ug/l**	**1.0**	**16**
1,4-Dichlorobenzene	**1**	**ug/l**	**1.0**	**16**
1,4-Dioxane	**1**	**ug/l**	**50**	**940**
2-Butanone	**1**	**ug/l**	**1.0**	**18**
2-Hexanone	**1**	**ug/l**	**1.0**	**15**
4-Methyl-2-pentanone	**1**	**ug/l**	**1.0**	**14**
Acetone	**1**	**ug/l**	**5.0**	**80**
Benzene	**1**	**ug/l**	**0.50**	**18**
Bromochloromethane	**1**	**ug/l**	**1.0**	**16**
Bromodichloromethane	**1**	**ug/l**	**1.0**	**18**
Bromoform	**1**	**ug/l**	**1.0**	**15**
Bromomethane	**1**	**ug/l**	**1.0**	**13**
Carbon disulfide	**1**	**ug/l**	**1.0**	**17**
Carbon tetrachloride	**1**	**ug/l**	**1.0**	**19**
Chlorobenzene	**1**	**ug/l**	**1.0**	**17**
Chloroethane	**1**	**ug/l**	**1.0**	**19**
Chloroform	**1**	**ug/l**	**1.0**	**17**
Chloromethane	**1**	**ug/l**	**1.0**	**14**
cis-1,2-Dichloroethene	**1**	**ug/l**	**1.0**	**18**
cis-1,3-Dichloropropene	**1**	**ug/l**	**1.0**	**16**
Cyclohexane	**1**	**ug/l**	**1.0**	**21**
Dibromochloromethane	**1**	**ug/l**	**1.0**	**17**
Dichlorodifluoromethane	**1**	**ug/l**	**1.0**	**11**
Ethylbenzene	**1**	**ug/l**	**1.0**	**17**
Isopropylbenzene	**1**	**ug/l**	**1.0**	**17**
m&p-Xylenes	**1**	**ug/l**	**1.0**	**33**
Methyl Acetate	**1**	**ug/l**	**1.0**	**15**
Methylcyclohexane	**1**	**ug/l**	**1.0**	**23**

Sample ID: RMW-4_02212018 MSD
Lab#: AD02764-005
Matrix: Aqueous
Collection Date: 2/21/2018
Receipt Date: 2/22/2018

Methylene chloride	1	ug/l	1.0	16
Methyl-t-butyl ether	1	ug/l	0.50	16
o-Xylene	1	ug/l	1.0	17
Styrene	1	ug/l	1.0	16
Tetrachloroethene	1	ug/l	1.0	19
Toluene	1	ug/l	1.0	15
trans-1,2-Dichloroethene	1	ug/l	1.0	19
trans-1,3-Dichloropropene	1	ug/l	1.0	16
Trichloroethene	1	ug/l	1.0	19
Trichlorofluoromethane	1	ug/l	1.0	17
Vinyl chloride	1	ug/l	1.0	14
Xylenes (Total)	1	ug/l	1.0	50

Sample ID: DUP
Lab#: AD02764-006
Matrix: Aqueous

Collection Date: 2/21/2018
Receipt Date: 2/22/2018

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.26	ND
Aroclor-1016	1	ug/l	0.26	ND
Aroclor-1221	1	ug/l	0.26	ND
Aroclor-1232	1	ug/l	0.26	ND
Aroclor-1242	1	ug/l	0.26	ND
Aroclor-1248	1	ug/l	0.26	ND
Aroclor-1254	1	ug/l	0.26	ND
Aroclor-1260	1	ug/l	0.26	ND
Aroclor-1262	1	ug/l	0.26	ND
Aroclor-1268	1	ug/l	0.26	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND

Sample ID: DUP
Lab#: AD02764-006
Matrix: Aqueous
Collection Date: 2/21/2018
Receipt Date: 2/22/2018

Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: FB_02212018 **Collection Date:** 2/21/2018
Lab#: AD02764-007 **Receipt Date:** 2/22/2018
Matrix: Aqueous

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND

Sample ID: FB_02212018 **Collection Date:** 2/21/2018
Lab#: AD02764-007 **Receipt Date:** 2/22/2018
Matrix: Aqueous

Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: TB
Lab#: AD02764-008
Matrix: Aqueous

Collection Date: 2/21/2018
Receipt Date: 2/22/2018

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD02764-001
Client Id: RMW-1_02212018
Data File: 8M12807.D
Analysis Date: 03/01/18 02:32
Date Rec/Extracted: 02/22/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	**67-66-3**	**Chloroform**	**1.0**	**1.4**
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	**127-18-4**	**Tetrachloroethene**	**1.0**	**6.1**
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 457092

Total Target Concentration 7.5

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD02764-002
Client Id: RMW-5_02212018
Data File: 8M12808.D
Analysis Date: 03/01/18 02:50
Date Rec/Extracted: 02/22/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 457092

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD02764-003
Client Id: RMW-4_02212018
Data File: 3M125781.D
Analysis Date: 03/01/18 20:04
Date Rec/Extracted: 02/22/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 457092

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD02764-004(MS:AD02
Client Id: RMW-4_02212018 MS
Data File: 3M125783.D
Analysis Date: 03/01/18 20:37
Date Rec/Extracted: 02/22/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	17	56-23-5	Carbon Tetrachloride	1.0	18
79-34-5	1,1,2,2-Tetrachloroethane	1.0	14	108-90-7	Chlorobenzene	1.0	16
76-13-1	1,1,2-Trichloro-1,2,2-triflu	1.0	20	75-00-3	Chloroethane	1.0	16
79-00-5	1,1,2-Trichloroethane	1.0	16	67-66-3	Chloroform	1.0	16
75-34-3	1,1-Dichloroethane	1.0	16	74-87-3	Chloromethane	1.0	12
75-35-4	1,1-Dichloroethene	1.0	16	156-59-2	cis-1,2-Dichloroethene	1.0	17
87-61-6	1,2,3-Trichlorobenzene	1.0	15	10061-01-5	cis-1,3-Dichloropropene	1.0	14
120-82-1	1,2,4-Trichlorobenzene	1.0	16	110-82-7	Cyclohexane	1.0	20
96-12-8	1,2-Dibromo-3-Chloroprop	1.0	13	124-48-1	Dibromochloromethane	1.0	15
106-93-4	1,2-Dibromoethane	1.0	15	75-71-8	Dichlorodifluoromethane	1.0	11
95-50-1	1,2-Dichlorobenzene	1.0	16	100-41-4	Ethylbenzene	1.0	17
107-06-2	1,2-Dichloroethane	0.50	16	98-82-8	Isopropylbenzene	1.0	17
78-87-5	1,2-Dichloropropane	1.0	16	79601-23-1	m&p-Xylenes	1.0	31
541-73-1	1,3-Dichlorobenzene	1.0	17	79-20-9	Methyl Acetate	1.0	15
106-46-7	1,4-Dichlorobenzene	1.0	17	108-87-2	Methylcyclohexane	1.0	21
123-91-1	1,4-Dioxane	50	840	75-09-2	Methylene Chloride	1.0	16
78-93-3	2-Butanone	1.0	15	1634-04-4	Methyl-t-butyl ether	0.50	16
591-78-6	2-Hexanone	1.0	13	95-47-6	o-Xylene	1.0	16
108-10-1	4-Methyl-2-Pentanone	1.0	13	100-42-5	Styrene	1.0	16
67-64-1	Acetone	5.0	73	127-18-4	Tetrachloroethene	1.0	16
71-43-2	Benzene	0.50	16	108-88-3	Toluene	1.0	15
74-97-5	Bromochloromethane	1.0	17	156-60-5	trans-1,2-Dichloroethene	1.0	17
75-27-4	Bromodichloromethane	1.0	16	10061-02-6	trans-1,3-Dichloropropene	1.0	15
75-25-2	Bromoform	1.0	15	79-01-6	Trichloroethene	1.0	19
74-83-9	Bromomethane	1.0	13	75-69-4	Trichlorofluoromethane	1.0	17
75-15-0	Carbon Disulfide	1.0	17	75-01-4	Vinyl Chloride	1.0	15
1330-20-7	Xylenes (Total)	1.0	47				

Worksheet #: 457092 *Total Target Concentration* 1700 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD02764-005(MSD:AD
Client Id: RMW-4_02212018 MSD
Data File: 3M125784.D
Analysis Date: 03/01/18 20:55
Date Rec/Extracted: 02/22/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	18	56-23-5	Carbon Tetrachloride	1.0	19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	14	108-90-7	Chlorobenzene	1.0	17
76-13-1	1,1,2-Trichloro-1,2,2-triflu	1.0	22	75-00-3	Chloroethane	1.0	19
79-00-5	1,1,2-Trichloroethane	1.0	17	67-66-3	Chloroform	1.0	17
75-34-3	1,1-Dichloroethane	1.0	17	74-87-3	Chloromethane	1.0	14
75-35-4	1,1-Dichloroethene	1.0	17	156-59-2	cis-1,2-Dichloroethene	1.0	18
87-61-6	1,2,3-Trichlorobenzene	1.0	16	10061-01-5	cis-1,3-Dichloropropene	1.0	16
120-82-1	1,2,4-Trichlorobenzene	1.0	15	110-82-7	Cyclohexane	1.0	21
96-12-8	1,2-Dibromo-3-Chloroprop	1.0	12	124-48-1	Dibromochloromethane	1.0	17
106-93-4	1,2-Dibromoethane	1.0	16	75-71-8	Dichlorodifluoromethane	1.0	11
95-50-1	1,2-Dichlorobenzene	1.0	16	100-41-4	Ethylbenzene	1.0	17
107-06-2	1,2-Dichloroethane	0.50	18	98-82-8	Isopropylbenzene	1.0	17
78-87-5	1,2-Dichloropropane	1.0	17	79601-23-1	m&p-Xylenes	1.0	33
541-73-1	1,3-Dichlorobenzene	1.0	16	79-20-9	Methyl Acetate	1.0	15
106-46-7	1,4-Dichlorobenzene	1.0	16	108-87-2	Methylcyclohexane	1.0	23
123-91-1	1,4-Dioxane	50	940	75-09-2	Methylene Chloride	1.0	16
78-93-3	2-Butanone	1.0	18	1634-04-4	Methyl-t-butyl ether	0.50	16
591-78-6	2-Hexanone	1.0	15	95-47-6	o-Xylene	1.0	17
108-10-1	4-Methyl-2-Pentanone	1.0	14	100-42-5	Styrene	1.0	16
67-64-1	Acetone	5.0	80	127-18-4	Tetrachloroethene	1.0	19
71-43-2	Benzene	0.50	18	108-88-3	Toluene	1.0	15
74-97-5	Bromochloromethane	1.0	16	156-60-5	trans-1,2-Dichloroethene	1.0	19
75-27-4	Bromodichloromethane	1.0	18	10061-02-6	trans-1,3-Dichloropropene	1.0	16
75-25-2	Bromoform	1.0	15	79-01-6	Trichloroethene	1.0	19
74-83-9	Bromomethane	1.0	13	75-69-4	Trichlorofluoromethane	1.0	17
75-15-0	Carbon Disulfide	1.0	17	75-01-4	Vinyl Chloride	1.0	14
1330-20-7	Xylenes (Total)	1.0	50				

Worksheet #: 457092

Total Target Concentration 1900

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD02764-006
Client Id: DUP
Data File: 8M12809.D
Analysis Date: 03/01/18 03:08
Date Rec/Extracted: 02/22/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 457092

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD02764-007
Client Id: FB_02212018
Data File: 8M12802.D
Analysis Date: 03/01/18 01:03
Date Rec/Extracted: 02/22/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 457092

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD02764-008
Client Id: TB
Data File: 8M12803.D
Analysis Date: 03/01/18 01:21
Date Rec/Extracted: 02/22/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 457092

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD02764-001
Client Id: RMW-1_02212018
Data File: 3G107632.D
Analysis Date: 02/28/18 20:21
Date Rec/Extracted: 02/22/18-02/28/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 457381

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD02764-002
Client Id: RMW-5_02212018
Data File: 3G107633.D
Analysis Date: 02/28/18 20:37
Date Rec/Extracted: 02/22/18-02/28/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.26	U	11097-69-1	Aroclor-1254	0.26	U
11104-28-2	Aroclor-1221	0.26	U	11096-82-5	Aroclor-1260	0.26	U
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	1336-36-3	Aroclor (Total)	0.26	U

Worksheet #: 457381

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD02764-003
Client Id: RMW-4_02212018
Data File: 3G107634.D
Analysis Date: 02/28/18 20:52
Date Rec/Extracted: 02/22/18-02/28/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 457381

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD02764-004(MS:AD02
Client Id: RMW-4_02212018 MS
Data File: 3G107630.D
Analysis Date: 02/28/18 19:50
Date Rec/Extracted: 02/22/18-02/28/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 980ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	**Aroclor-1016**	**0.26**	**5.1**	11097-69-1	Aroclor-1254	0.26	U
11104-28-2	Aroclor-1221	0.26	U	**11096-82-5**	**Aroclor-1260**	**0.26**	**4.8**
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	**1336-36-3**	**Aroclor (Total)**	**0.26**	**9.9**

Worksheet #: 457381 *Total Target Concentration* 9.9 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD02764-005(MSD:AD
Client Id: RMW-4_02212018 MSD
Data File: 3G107631.D
Analysis Date: 02/28/18 20:06
Date Rec/Extracted: 02/22/18-02/28/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 980ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	**Aroclor-1016**	**0.26**	**5.0**	11097-69-1	Aroclor-1254	0.26	U
11104-28-2	Aroclor-1221	0.26	U	**11096-82-5**	**Aroclor-1260**	**0.26**	**4.8**
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	**1336-36-3**	**Aroclor (Total)**	**0.26**	**9.8**

Worksheet #: 457381

Total Target Concentration 9.8

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD02764-006
Client Id: DUP
Data File: 3G107635.D
Analysis Date: 02/28/18 21:07
Date Rec/Extracted: 02/22/18-02/28/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 980ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.26	U	11097-69-1	Aroclor-1254	0.26	U
11104-28-2	Aroclor-1221	0.26	U	11096-82-5	Aroclor-1260	0.26	U
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	1336-36-3	Aroclor (Total)	0.26	U

Worksheet #: 457381

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD02764-007
Client Id: FB_02212018
Data File: 3G107636.D
Analysis Date: 02/28/18 21:22
Date Rec/Extracted: 02/22/18-02/28/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 457381

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Chain of Custody Forms

8022222 NO37

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992

A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project # (Lab Use Only): 8022222

Page 1 of 1

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%)*	Results + QC (Waste)	Excel Reg. NJ / NY / PA
2 Business Days (75%)*	Reduced:	EnviroData
3 Business Days (50%)*	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%)*	[ ] PA [ ] Other	[✓] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / NY ASP CatB	[✓] NYDEC
8 Business Days (Stand.)	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: P&S
Address: 1 Larkin Plaza, 2nd Floor, Yonkers, NY 10701
1b) Email/Cell/Fax/Ph: scaporizzo@p&s[illegible].com
1c) Send Invoice to: Scott Caporizzo 203-252-4015
1d) Send Report to: LL LL

Project Information

2a) Project: Former BICC Cables Site, Yonkers, NY 056970009
2b) Project Mgr: Scott Caporizzo
2c) Project Location (City/State): 1 Point Street, Yonkers, NY
2d) Quote/PO # (If Applicable): 56386

FOR LAB USE ONLY

Batch # A002764

===> Check If Contingent ===>

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis *(specify methods & parameter lists)*

<=== Check If Contingent <===

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	VOC	PCB	MS/MSD	8) # of Bottles: None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
001	RMW-1_02212018	GW	2/21/18	1130		✓	✓	✓		2				3				
002	RMW-5_02222018	"	2/22/18	1110		"	"	"		2				3				Sample Time Not on Bottles
003/004/005	RMW-4_02212018	"	2/21/18	1450		"	"	"	✓	6				9				
006	DUP	"	"	—		"	"	"		2				3				
007	FB_02212018	"	"	—		"	"	"		2				3				
008	~~MW~~ TB	"	-				✓							3				

10) Relinquished by:	Accepted by:	Date	Time
[signature]	[signature]	2/22/18	15:51

11) Sampler (print name): Jeffrey Lambom Date: 2/22/18

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270D SIM)
- [ ] VOC (8260C SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.8, 3.1

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

CONDITION UPON RECEIPT

Batch Number AD02764 Entered By: maxwell

Date Entered 2/22/2018 4:19:00 PM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	NO	Are the COC seals intact?
4	T0054	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 2.8,3.1
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	YES	Other comments ...Specify TRIP BLANK DATE 2/20/18
14	NA	Corrective actions (Specify item number and corrective action taken).

PRESERVATION DOCUMENT

Batch Number AD02764

Entered By: maxwell

Date Entered 2/22/2018 4:20:00 PM

Lab#:	Container Size	Container/Vial Check	Parameter	Preservative	Preservative Lot#	PH	pH Lot#
AD02764-001	40ML	G	VO	HCL	169353	1	HC613865
AD02764-002	40ML	G	VO	HCL	169353	1	HC613865
AD02764-003	40ML	G	VO	HCL	169353	1	HC613865
AD02764-004	40ML	G	VO	HCL	169353	1	HC613865
AD02764-005	40ML	G	VO	HCL	169353	1	HC613865
AD02764-006	40ML	G	VO	HCL	169353	1	HC613865
AD02764-007	40ML	G	VO	HCL	169353	1	HC613865
AD02764-008	40ML	G	VO	HCL	169353	1	HC613865

Internal Chain of Custody

8022222 0040

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD02764-001	02/22/18 15:51	MAXW	0	M	Received
AD02764-001	02/22/18 16:17	MAXW	0	M	Login
AD02764-001	02/22/18 16:40	R31	1	A	NONE
AD02764-001	02/22/18 16:40	R31	2	A	NONE
AD02764-001	02/28/18 21:35	WP	2	A	VOA
AD02764-001	02/22/18 16:36	R31	3	A	PH/CHECK
AD02764-001	02/28/18 10:29	LV	4	A	p/p
AD02764-002	02/22/18 15:51	MAXW	0	M	Received
AD02764-002	02/22/18 16:17	MAXW	0	M	Login
AD02764-002	02/22/18 16:40	R31	1	A	NONE
AD02764-002	02/22/18 16:40	R31	2	A	NONE
AD02764-002	02/28/18 21:35	WP	2	A	VOA
AD02764-002	02/22/18 16:36	R31	3	A	PH/CHECK
AD02764-002	02/28/18 10:29	LV	5	A	p/p
AD02764-003	02/22/18 15:51	MAXW	0	M	Received
AD02764-003	02/22/18 16:17	MAXW	0	M	Login
AD02764-003	02/22/18 16:40	R31	1	A	NONE
AD02764-003	02/22/18 16:40	R31	2	A	NONE
AD02764-003	03/01/18 19:13	WP	2	A	VOA
AD02764-003	02/22/18 16:36	R31	3	A	PH/CHECK
AD02764-003	02/28/18 10:29	LV	4	A	p/p
AD02764-004	02/22/18 15:51	MAXW	0	M	Received
AD02764-004	02/22/18 16:17	MAXW	0	M	Login
AD02764-004	02/22/18 16:40	R31	1	A	NONE
AD02764-004	02/22/18 16:40	R31	2	A	NONE
AD02764-004	03/01/18 19:13	WP	2	A	VOA
AD02764-004	02/22/18 16:36	R31	3	A	PH/CHECK
AD02764-004	02/28/18 10:29	LV	4	A	p/p
AD02764-005	02/22/18 15:51	MAXW	0	M	Received
AD02764-005	02/22/18 16:17	MAXW	0	M	Login
AD02764-005	02/22/18 16:40	R31	1	A	NONE
AD02764-005	02/22/18 16:40	R31	2	A	NONE
AD02764-005	03/01/18 19:29	WP	2	A	VOA
AD02764-005	02/22/18 16:36	R31	3	A	PH/CHECK
AD02764-005	02/28/18 10:29	LV	4	A	p/p
AD02764-006	02/22/18 15:51	MAXW	0	M	Received
AD02764-006	02/22/18 16:17	MAXW	0	M	Login
AD02764-006	02/22/18 16:40	R31	1	A	NONE
AD02764-006	02/22/18 16:40	R31	2	A	NONE
AD02764-006	02/28/18 21:35	WP	2	A	VOA
AD02764-006	02/22/18 16:36	R31	3	A	PH/CHECK
AD02764-006	02/28/18 10:29	LV	4	A	p/p
AD02764-007	02/22/18 15:51	MAXW	0	M	Received
AD02764-007	02/22/18 16:17	MAXW	0	M	Login
AD02764-007	02/22/18 16:40	R31	1	A	NONE
AD02764-007	02/22/18 16:40	R31	2	A	NONE
AD02764-007	02/28/18 21:35	WP	2	A	VOA
AD02764-007	02/22/18 16:36	R31	3	A	PH/CHECK
AD02764-007	02/28/18 10:29	LV	5	A	p/p
AD02764-008	02/22/18 15:51	MAXW	0	M	Received
AD02764-008	02/22/18 16:17	MAXW	0	M	Login
AD02764-008	02/22/18 16:40	R31	1	A	NONE
AD02764-008	02/22/18 16:40	R31	2	A	NONE
AD02764-008	02/28/18 21:35	WP	2	A	VOA
AD02764-008	02/22/18 16:36	R31	3	A	PH/CHECK

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

GC/MS Volatile Data

GC/MS Volatile Data
QC Summary

FORM2

Surrogate Recovery

Method: EPA 8260C

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
3M125780.D	DAILY BLANK	A	03/01/18 19:47	1		95	94	93	91		
8M12790.D	DAILY BLANK	A	02/28/18 21:29	1		91	98	92	93		
8M12807.D	AD02764-001	A	03/01/18 02:32	1		104	105	94	100		
8M12808.D	AD02764-002	A	03/01/18 02:50	1		105	107	95	99		
3M125781.D	AD02764-003	A	03/01/18 20:04	1		95	97	94	96		
3M125783.D	AD02764-004(MS:AD02	A	03/01/18 20:37	1		100	100	96	102		
3M125784.D	AD02764-005(MSD:AD0	A	03/01/18 20:55	1		102	93	94	97		
8M12809.D	AD02764-006	A	03/01/18 03:08	1		103	104	96	98		
8M12802.D	AD02764-007	A	03/01/18 01:03	1		104	104	95	99		
8M12803.D	AD02764-008	A	03/01/18 01:21	1		102	106	95	99		
3M125782.D	MBS67258	A	03/01/18 20:20	1		101	101	98	99		
8M12791.D	MBS67240	A	02/28/18 21:47	1		101	101	102	104		
8M12794.D	AD02720-011	A	02/28/18 22:41	1		101	99	100	106		
8M12796.D	AD02720-011(MS)	A	02/28/18 23:16	1		100	102	98	98		
8M12797.D	AD02720-011(MSD)	A	02/28/18 23:34	1		94	91	97	100		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260C

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	73-131
S2=1,2-Dichloroethane-d4	30	78-128
S3=Toluene-d8	30	79-111
S4=Bromofluorobenzene	30	82-112

Form3
Recovery Data Laboratory Limits
QC Batch: MBS67240

Data File	Sample ID:	Analysis Date
Spike or Dup: 8M12791.D	MBS67240	2/28/2018 9:47:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	16.3175	0	20	82	50	150
Dichlorodifluoromethane	1	17.9118	0	20	90	50	150
Chloromethane	1	16.6124	0	20	83	50	150
Bromomethane	1	16.4634	0	20	82	50	150
Vinyl Chloride	1	17.6275	0	20	88	50	150
Chloroethane	1	17.411	0	20	87	50	150
Trichlorofluoromethane	1	18.1204	0	20	91	50	150
Ethyl ether	1	16.0885	0	20	80	50	150
Furan	1	16.0497	0	20	80	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	18.8216	0	20	94	50	150
Methylene Chloride	1	16.7495	0	20	84	70	130
Acrolein	1	82.4881	0	100	82	50	150
Acrylonitrile	1	16.7061	0	20	84	50	150
Iodomethane	1	13.3875	0	20	67	50	150
Acetone	1	78.5509	0	100	79	50	150
Carbon Disulfide	1	17.3499	0	20	87	50	150
t-Butyl Alcohol	1	81.9579	0	100	82	50	150
n-Hexane	1	19.7578	0	20	99	70	130
Di-isopropyl-ether	1	16.951	0	20	85	70	130
1,1-Dichloroethene	1	17.4149	0	20	87	70	130
Methyl Acetate	1	16.2411	0	20	81	50	150
Methyl-t-butyl ether	1	16.6642	0	20	83	70	130
1,1-Dichloroethane	1	17.0897	0	20	85	70	130
trans-1,2-Dichloroethene	1	17.4619	0	20	87	70	130
Ethyl-t-butyl ether	1	16.5865	0	20	83	70	130
cis-1,2-Dichloroethene	1	17.2267	0	20	86	70	130
Bromochloromethane	1	17.0265	0	20	85	70	130
2,2-Dichloropropane	1	18.8351	0	20	94	70	130
Ethyl acetate	1	15.7729	0	20	79	50	150
1,4-Dioxane	1	620.9068	0	1000	62	50	150
1,1-Dichloropropene	1	18.1108	0	20	91	70	130
Chloroform	1	17.2021	0	20	86	70	130
Cyclohexane	1	18.8269	0	20	94	70	130
1,2-Dichloroethane	1	16.8062	0	20	84	70	130
2-Butanone	1	14.8285	0	20	74	50	150
1,1,1-Trichloroethane	1	17.475	0	20	87	70	130
Carbon Tetrachloride	1	17.7027	0	20	89	50	150
Vinyl Acetate	1	19.5917	0	20	98	50	150
Bromodichloromethane	1	16.8751	0	20	84	70	130
Methylcyclohexane	1	18.997	0	20	95	70	130
Dibromomethane	1	16.8083	0	20	84	70	130
1,2-Dichloropropane	1	17.1544	0	20	86	70	130
Trichloroethene	1	17.0558	0	20	85	70	130
Benzene	1	17.4597	0	20	87	70	130
tert-Amyl methyl ether	1	16.9601	0	20	85	70	130
Iso-propylacetate	1	16.675	0	20	83	70	130
Methyl methacrylate	1	18.4487	0	20	92	70	130
Dibromochloromethane	1	16.7197	0	20	84	70	130
2-Chloroethylvinylether	1	16.7548	0	20	84	70	130
cis-1,3-Dichloropropene	1	17.5312	0	20	88	70	130
trans-1,3-Dichloropropene	1	17.2489	0	20	86	70	130
Ethyl methacrylate	1	16.8985	0	20	84	70	130
1,1,2-Trichloroethane	1	17.2564	0	20	86	70	130
1,2-Dibromoethane	1	17.0665	0	20	85	70	130
1,3-Dichloropropane	1	17.3337	0	20	87	70	130
4-Methyl-2-Pentanone	1	16.6211	0	20	83	50	150
2-Hexanone	1	17.0239	0	20	85	50	150
Tetrachloroethene	1	18.6102	0	20	93	50	150
Toluene	1	17.5131	0	20	88	70	130
1,1,1,2-Tetrachloroethane	1	16.572	0	20	83	70	130
Chlorobenzene	1	17.0607	0	20	85	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS67240

n-Butyl acrylate	1	16.9387	0	20	85	70	130
n-Amyl acetate	1	16.3001	0	20	82	70	130
Bromoform	1	15.9963	0	20	80	70	130
Ethylbenzene	1	17.8626	0	20	89	70	130
1,1,2,2-Tetrachloroethane	1	16.8974	0	20	84	70	130
Styrene	1	18.3568	0	20	92	70	130
m&p-Xylenes	1	38.4961	0	40	96	70	130
o-Xylene	1	18.5404	0	20	93	70	130
trans-1,4-Dichloro-2-butene	1	17.2727	0	20	86	50	150
1,3-Dichlorobenzene	1	17.0634	0	20	85	70	130
1,4-Dichlorobenzene	1	16.7188	0	20	84	70	130
1,2-Dichlorobenzene	1	16.7048	0	20	84	70	130
Isopropylbenzene	1	18.8116	0	20	94	70	130
Cyclohexanone	1	104.9262	0	100	105	50	150
Camphene	1	19.1098	0	20	96	70	130
1,2,3-Trichloropropane	1	16.8955	0	20	84	70	130
2-Chlorotoluene	1	18.3154	0	20	92	70	130
p-Ethyltoluene	1	19.1481	0	20	96	70	130
4-Chlorotoluene	1	17.8548	0	20	89	70	130
n-Propylbenzene	1	18.2959	0	20	91	70	130
Bromobenzene	1	17.3803	0	20	87	70	130
1,3,5-Trimethylbenzene	1	18.9486	0	20	95	70	130
Butyl methacrylate	1	17.4842	0	20	87	70	130
t-Butylbenzene	1	18.0159	0	20	90	70	130
1,2,4-Trimethylbenzene	1	17.7253	0	20	89	70	130
sec-Butylbenzene	1	18.0252	0	20	90	70	130
4-Isopropyltoluene	1	18.4597	0	20	92	70	130
n-Butylbenzene	1	17.3195	0	20	87	70	130
p-Diethylbenzene	1	17.1862	0	20	86	70	130
1,2,4,5-Tetramethylbenzene	1	16.3026	0	20	82	70	130
1,2-Dibromo-3-Chloropropane	1	15.3858	0	20	77	50	150
Camphor	1	131.0456	0	200	66	20	150
Hexachlorobutadiene	1	18.1826	0	20	91	50	150
1,2,4-Trichlorobenzene	1	17.0351	0	20	85	70	130
1,2,3-Trichlorobenzene	1	16.3177	0	20	82	70	130
Naphthalene	1	16.2045	0	20	81	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS67258

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M125782.D	MBS67258	3/1/2018 8:20:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	12.231	0	20	61	50	150
Dichlorodifluoromethane	1	10.601	0	20	53	50	150
Chloromethane	1	14.931	0	20	75	50	150
Bromomethane	1	15.5855	0	20	78	50	150
Vinyl Chloride	1	16.0651	0	20	80	50	150
Chloroethane	1	21.5354	0	20	108	50	150
Trichlorofluoromethane	1	18.0278	0	20	90	50	150
Ethyl ether	1	17.5456	0	20	88	50	150
Furan	1	15.362	0	20	77	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	21.3585	0	20	107	50	150
Methylene Chloride	1	16.8545	0	20	84	70	130
Acrolein	1	89.079	0	100	89	50	150
Acrylonitrile	1	16.2975	0	20	81	50	150
Iodomethane	1	19.0963	0	20	95	50	150
Acetone	1	83.5293	0	100	84	50	150
Carbon Disulfide	1	17.4136	0	20	87	50	150
t-Butyl Alcohol	1	80.0891	0	100	80	50	150
n-Hexane	1	19.2807	0	20	96	70	130
Di-isopropyl-ether	1	17.4144	0	20	87	70	130
1,1-Dichloroethene	1	17.9522	0	20	90	70	130
Methyl Acetate	1	14.9496	0	20	75	50	150
Methyl-t-butyl ether	1	16.511	0	20	83	70	130
1,1-Dichloroethane	1	17.8989	0	20	89	70	130
trans-1,2-Dichloroethene	1	19.5188	0	20	98	70	130
Ethyl-t-butyl ether	1	17.317	0	20	87	70	130
cis-1,2-Dichloroethene	1	18.3017	0	20	92	70	130
Bromochloromethane	1	15.6706	0	20	78	70	130
2,2-Dichloropropane	1	19.3145	0	20	97	70	130
Ethyl acetate	1	16.9087	0	20	85	50	150
1,4-Dioxane	1	868.1144	0	1000	87	50	150
1,1-Dichloropropene	1	18.9195	0	20	95	70	130
Chloroform	1	19.201	0	20	96	70	130
Cyclohexane	1	18.4513	0	20	92	70	130
1,2-Dichloroethane	1	18.4733	0	20	92	70	130
2-Butanone	1	17.3002	0	20	87	50	150
1,1,1-Trichloroethane	1	18.7191	0	20	94	70	130
Carbon Tetrachloride	1	20.7199	0	20	104	50	150
Vinyl Acetate	1	17.4246	0	20	87	50	150
Bromodichloromethane	1	18.2182	0	20	91	70	130
Methylcyclohexane	1	19.2509	0	20	96	70	130
Dibromomethane	1	19.8158	0	20	99	70	130
1,2-Dichloropropane	1	17.5486	0	20	88	70	130
Trichloroethene	1	19.8442	0	20	99	70	130
Benzene	1	18.4115	0	20	92	70	130
tert-Amyl methyl ether	1	18.3175	0	20	92	70	130
Iso-propylacetate	1	16.1788	0	20	81	70	130
Methyl methacrylate	1	17.5886	0	20	88	70	130
Dibromochloromethane	1	17.9384	0	20	90	70	130
2-Chloroethylvinylether	1	16.5964	0	20	83	70	130
cis-1,3-Dichloropropene	1	17.5903	0	20	88	70	130
trans-1,3-Dichloropropene	1	16.389	0	20	82	70	130
Ethyl methacrylate	1	15.7742	0	20	79	70	130
1,1,2-Trichloroethane	1	17.7439	0	20	89	70	130
1,2-Dibromoethane	1	17.002	0	20	85	70	130
1,3-Dichloropropane	1	16.8726	0	20	84	70	130
4-Methyl-2-Pentanone	1	14.0298	0	20	70	50	150
2-Hexanone	1	15.0501	0	20	75	50	150
Tetrachloroethene	1	17.8415	0	20	89	50	150
Toluene	1	17.4904	0	20	87	70	130
1,1,1,2-Tetrachloroethane	1	19.227	0	20	96	70	130
Chlorobenzene	1	18.1167	0	20	91	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS67258

n-Butyl acrylate	1	13.8024	0	20	69*	70	130
n-Amyl acetate	1	15.3245	0	20	77	70	130
Bromoform	1	16.1468	0	20	81	70	130
Ethylbenzene	1	18.9055	0	20	95	70	130
1,1,2,2-Tetrachloroethane	1	14.8656	0	20	74	70	130
Styrene	1	17.411	0	20	87	70	130
m&p-Xylenes	1	34.5842	0	40	86	70	130
o-Xylene	1	17.091	0	20	85	70	130
trans-1,4-Dichloro-2-butene	1	14.1475	0	20	71	50	150
1,3-Dichlorobenzene	1	17.3799	0	20	87	70	130
1,4-Dichlorobenzene	1	15.9611	0	20	80	70	130
1,2-Dichlorobenzene	1	17.2087	0	20	86	70	130
Isopropylbenzene	1	17.3925	0	20	87	70	130
Cyclohexanone	1	70.7249	0	100	71	50	150
Camphene	1	14.8731	0	20	74	70	130
1,2,3-Trichloropropane	1	14.7546	0	20	74	70	130
2-Chlorotoluene	1	16.6875	0	20	83	70	130
p-Ethyltoluene	1	16.48	0	20	82	70	130
4-Chlorotoluene	1	17.3768	0	20	87	70	130
n-Propylbenzene	1	17.1645	0	20	86	70	130
Bromobenzene	1	16.6712	0	20	83	70	130
1,3,5-Trimethylbenzene	1	17.866	0	20	89	70	130
Butyl methacrylate	1	14.8032	0	20	74	70	130
t-Butylbenzene	1	17.4825	0	20	87	70	130
1,2,4-Trimethylbenzene	1	16.9428	0	20	85	70	130
sec-Butylbenzene	1	16.2332	0	20	81	70	130
4-Isopropyltoluene	1	16.1692	0	20	81	70	130
n-Butylbenzene	1	15.0678	0	20	75	70	130
p-Diethylbenzene	1	15.7687	0	20	79	70	130
1,2,4,5-Tetramethylbenzene	1	15.5365	0	20	78	70	130
1,2-Dibromo-3-Chloropropane	1	12.0184	0	20	60	50	150
Camphor	1	135.0029	0	200	68	20	150
Hexachlorobutadiene	1	12.1457	0	20	61	50	150
1,2,4-Trichlorobenzene	1	13.4831	0	20	67*	70	130
1,2,3-Trichlorobenzene	1	14.665	0	20	73	70	130
Naphthalene	1	14.2031	0	20	71	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS67240

Data File	Sample ID:	Analysis Date
Spike or Dup: 8M12796.D	AD02720-011(MS)	2/28/2018 11:16:00 PM
Non Spike(If applicable): 8M12794.D	AD02720-011	2/28/2018 10:41:00 PM
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	15.0632	0	20	75	50	150
Dichlorodifluoromethane	1	16.4524	0	20	82	50	150
Chloromethane	1	15.5062	0	20	78	50	150
Bromomethane	1	15.2384	0	20	76	50	150
Vinyl Chloride	1	16.5741	0	20	83	50	150
Chloroethane	1	16.7757	0	20	84	50	150
Trichlorofluoromethane	1	16.5502	0	20	83	50	150
Ethyl ether	1	15.3106	0	20	77	50	150
Furan	1	15.0968	0	20	75	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	17.114	0	20	86	50	150
Methylene Chloride	1	15.5665	0	20	78	70	130
Acrolein	1	83.5879	0	100	84	50	150
Acrylonitrile	1	16.5881	0	20	83	50	150
Iodomethane	1	11.9385	0	20	60	50	150
Acetone	1	81.3007	0	100	81	50	150
Carbon Disulfide	1	16.0956	0	20	80	50	150
t-Butyl Alcohol	1	77.9947	0	100	78	50	150
n-Hexane	1	17.1795	0	20	86	70	130
Di-isopropyl-ether	1	15.8884	0	20	79	70	130
1,1-Dichloroethene	1	16.3228	0	20	82	70	130
Methyl Acetate	1	15.9926	0	20	80	50	150
Methyl-t-butyl ether	1	15.6192	0	20	78	70	130
1,1-Dichloroethane	1	16.0671	0	20	80	70	130
trans-1,2-Dichloroethene	1	16.3468	0	20	82	70	130
Ethyl-t-butyl ether	1	15.2662	0	20	76	70	130
cis-1,2-Dichloroethene	1	15.8912	0	20	79	70	130
Bromochloromethane	1	15.7173	0	20	79	70	130
2,2-Dichloropropane	1	16.8149	0	20	84	70	130
Ethyl acetate	1	16.0752	0	20	80	50	150
1,4-Dioxane	1	1210.131	0	1000	121	50	150
1,1-Dichloropropene	1	15.8343	0	20	79	70	130
Chloroform	1	15.4055	0	20	77	70	130
Cyclohexane	1	16.2707	0	20	81	70	130
1,2-Dichloroethane	1	16.0626	0	20	80	70	130
2-Butanone	1	10.4646	0	20	52	50	150
1,1,1-Trichloroethane	1	15.215	0	20	76	70	130
Carbon Tetrachloride	1	16.4137	0	20	82	50	150
Vinyl Acetate	1	17.4441	0	20	87	50	150
Bromodichloromethane	1	16.0753	0	20	80	70	130
Methylcyclohexane	1	17.2502	0	20	86	70	130
Dibromomethane	1	15.9202	0	20	80	70	130
1,2-Dichloropropane	1	16.3089	0	20	82	70	130
Trichloroethene	1	16.7376	0	20	84	70	130
Benzene	1	16.555	0	20	83	70	130
tert-Amyl methyl ether	1	15.8326	0	20	79	70	130
Iso-propylacetate	1	15.1477	0	20	76	70	130
Methyl methacrylate	1	14.8665	0	20	74	70	130
Dibromochloromethane	1	15.2928	0	20	76	70	130
2-Chloroethylvinylether	1	0	0	20	0*	70	130
cis-1,3-Dichloropropene	1	14.5201	0	20	73	70	130
trans-1,3-Dichloropropene	1	14.9542	0	20	75	70	130
Ethyl methacrylate	1	13.8301	0	20	69*	70	130
1,1,2-Trichloroethane	1	15.8562	0	20	79	70	130
1,2-Dibromoethane	1	15.5558	0	20	78	70	130
1,3-Dichloropropane	1	15.8259	0	20	79	70	130
4-Methyl-2-Pentanone	1	13.7085	0	20	69	50	150
2-Hexanone	1	15.8861	0	20	79	50	150
Tetrachloroethene	1	16.4158	0	20	82	50	150
Toluene	1	14.8767	0	20	74	70	130
1,1,1,2-Tetrachloroethane	1	14.9035	0	20	75	70	130
Chlorobenzene	1	15.2814	0	20	76	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Recovery Data Laboratory Limits

QC Batch: MBS67240

n-Butyl acrylate	1	15.2868	0	20	76	70	130
n-Amyl acetate	1	14.3485	0	20	72	70	130
Bromoform	1	14.1497	0	20	71	70	130
Ethylbenzene	1	14.4731	0	20	72	70	130
1,1,2,2-Tetrachloroethane	1	14.4841	0	20	72	70	130
Styrene	1	15.5591	0	20	78	70	130
m&p-Xylenes	1	31.4263	0	40	79	70	130
o-Xylene	1	15.5399	0	20	78	70	130
trans-1,4-Dichloro-2-butene	1	13.3275	0	20	67	50	150
1,3-Dichlorobenzene	1	15.5617	0	20	78	70	130
1,4-Dichlorobenzene	1	15.3976	0	20	77	70	130
1,2-Dichlorobenzene	1	15.428	0	20	77	70	130
Isopropylbenzene	1	15.3855	0	20	77	70	130
Cyclohexanone	1	26.0254	0	100	26*	50	150
Camphene	1	10.0912	0	20	50*	70	130
1,2,3-Trichloropropane	1	15.3386	0	20	77	70	130
2-Chlorotoluene	1	14.5142	0	20	73	70	130
p-Ethyltoluene	1	15.144	0	20	76	70	130
4-Chlorotoluene	1	15.7606	0	20	79	70	130
n-Propylbenzene	1	15.398	0	20	77	70	130
Bromobenzene	1	14.626	0	20	73	70	130
1,3,5-Trimethylbenzene	1	15.5367	0	20	78	70	130
Butyl methacrylate	1	14.9232	0	20	75	70	130
t-Butylbenzene	1	15.3038	0	20	77	70	130
1,2,4-Trimethylbenzene	1	15.1283	0	20	76	70	130
sec-Butylbenzene	1	15.5757	0	20	78	70	130
4-Isopropyltoluene	1	15.0682	0	20	75	70	130
n-Butylbenzene	1	15.3429	0	20	77	70	130
p-Diethylbenzene	1	15.2411	0	20	76	70	130
1,2,4,5-Tetramethylbenzene	1	14.6841	0	20	73	70	130
1,2-Dibromo-3-Chloropropane	1	14.8836	0	20	74	50	150
Camphor	1	139.8584	0	200	70	20	150
Hexachlorobutadiene	1	15.7472	0	20	79	50	150
1,2,4-Trichlorobenzene	1	14.7935	0	20	74	70	130
1,2,3-Trichlorobenzene	1	13.9463	0	20	70	70	130
Naphthalene	1	14.5408	0	20	73	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS67240

Data File	Sample ID:	Analysis Date
Spike or Dup: 8M12797.D	AD02720-011(MSD)	2/28/2018 11:34:00 PM
Non Spike(If applicable): 8M12794.D	AD02720-011	2/28/2018 10:41:00 PM
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	18.0391	0	20	90	50	150
Dichlorodifluoromethane	1	19.9128	0	20	100	50	150
Chloromethane	1	18.3748	0	20	92	50	150
Bromomethane	1	18.0133	0	20	90	50	150
Vinyl Chloride	1	19.5478	0	20	98	50	150
Chloroethane	1	19.4849	0	20	97	50	150
Trichlorofluoromethane	1	19.867	0	20	99	50	150
Ethyl ether	1	18.2029	0	20	91	50	150
Furan	1	18.0854	0	20	90	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	20.6152	0	20	103	50	150
Methylene Chloride	1	18.5252	0	20	93	70	130
Acrolein	1	96.5551	0	100	97	50	150
Acrylonitrile	1	19.3672	0	20	97	50	150
Iodomethane	1	16.7027	0	20	84	50	150
Acetone	1	94.9308	0	100	95	50	150
Carbon Disulfide	1	19.1173	0	20	96	50	150
t-Butyl Alcohol	1	92.7288	0	100	93	50	150
n-Hexane	1	21.2798	0	20	106	70	130
Di-isopropyl-ether	1	18.5288	0	20	93	70	130
1,1-Dichloroethene	1	19.323	0	20	97	70	130
Methyl Acetate	1	18.7752	0	20	94	50	150
Methyl-t-butyl ether	1	18.4357	0	20	92	70	130
1,1-Dichloroethane	1	18.8521	0	20	94	70	130
trans-1,2-Dichloroethene	1	19.2124	0	20	96	70	130
Ethyl-t-butyl ether	1	17.3915	0	20	87	70	130
cis-1,2-Dichloroethene	1	17.7132	0	20	89	70	130
Bromochloromethane	1	17.5275	0	20	88	70	130
2,2-Dichloropropane	1	18.4812	0	20	92	70	130
Ethyl acetate	1	17.4204	0	20	87	50	150
1,4-Dioxane	1	1321.414	0	1000	132	50	150
1,1-Dichloropropene	1	18.5121	0	20	93	70	130
Chloroform	1	17.4198	0	20	87	70	130
Cyclohexane	1	19.4153	0	20	97	70	130
1,2-Dichloroethane	1	16.7524	0	20	84	70	130
2-Butanone	1	11.192	0	20	56	50	150
1,1,1-Trichloroethane	1	17.9284	0	20	90	70	130
Carbon Tetrachloride	1	18.4738	0	20	92	50	150
Vinyl Acetate	1	21.216	0	20	106	50	150
Bromodichloromethane	1	17.0954	0	20	85	70	130
Methylcyclohexane	1	19.3088	0	20	97	70	130
Dibromomethane	1	17.5141	0	20	88	70	130
1,2-Dichloropropane	1	17.7735	0	20	89	70	130
Trichloroethene	1	18.1418	0	20	91	70	130
Benzene	1	18.1921	0	20	91	70	130
tert-Amyl methyl ether	1	17.3475	0	20	87	70	130
Iso-propylacetate	1	16.8817	0	20	84	70	130
Methyl methacrylate	1	16.39	0	20	82	70	130
Dibromochloromethane	1	18.699	0	20	93	70	130
2-Chloroethylvinylether	1	0	0	20	0*	70	130
cis-1,3-Dichloropropene	1	17.5839	0	20	88	70	130
trans-1,3-Dichloropropene	1	18.2604	0	20	91	70	130
Ethyl methacrylate	1	16.823	0	20	84	70	130
1,1,2-Trichloroethane	1	19.252	0	20	96	70	130
1,2-Dibromoethane	1	18.1079	0	20	91	70	130
1,3-Dichloropropane	1	18.0847	0	20	90	70	130
4-Methyl-2-Pentanone	1	17.4302	0	20	87	50	150
2-Hexanone	1	17.1993	0	20	86	50	150
Tetrachloroethene	1	19.139	0	20	96	50	150
Toluene	1	18.5836	0	20	93	70	130
1,1,1,2-Tetrachloroethane	1	18.6068	0	20	93	70	130
Chlorobenzene	1	18.5362	0	20	93	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS67240

n-Butyl acrylate	1	16.8703	0	20	84	70	130
n-Amyl acetate	1	16.3598	0	20	82	70	130
Bromoform	1	16.5989	0	20	83	70	130
Ethylbenzene	1	17.7346	0	20	89	70	130
1,1,2,2-Tetrachloroethane	1	18.9241	0	20	95	70	130
Styrene	1	18.0473	0	20	90	70	130
m&p-Xylenes	1	37.6146	0	40	94	70	130
o-Xylene	1	17.9438	0	20	90	70	130
trans-1,4-Dichloro-2-butene	1	16.2221	0	20	81	50	150
1,3-Dichlorobenzene	1	17.9211	0	20	90	70	130
1,4-Dichlorobenzene	1	18.5161	0	20	93	70	130
1,2-Dichlorobenzene	1	18.6104	0	20	93	70	130
Isopropylbenzene	1	18.1537	0	20	91	70	130
Cyclohexanone	1	29.5325	0	100	30 *	50	150
Camphene	1	11.5136	0	20	58 *	70	130
1,2,3-Trichloropropane	1	18.8226	0	20	94	70	130
2-Chlorotoluene	1	19.0552	0	20	95	70	130
p-Ethyltoluene	1	19.7833	0	20	99	70	130
4-Chlorotoluene	1	19.2732	0	20	96	70	130
n-Propylbenzene	1	20.1933	0	20	101	70	130
Bromobenzene	1	18.2343	0	20	91	70	130
1,3,5-Trimethylbenzene	1	19.6388	0	20	98	70	130
Butyl methacrylate	1	19.8716	0	20	99	70	130
t-Butylbenzene	1	18.8497	0	20	94	70	130
1,2,4-Trimethylbenzene	1	18.9578	0	20	95	70	130
sec-Butylbenzene	1	19.4635	0	20	97	70	130
4-Isopropyltoluene	1	18.2461	0	20	91	70	130
n-Butylbenzene	1	18.1227	0	20	91	70	130
p-Diethylbenzene	1	17.7	0	20	89	70	130
1,2,4,5-Tetramethylbenzene	1	18.3566	0	20	92	70	130
1,2-Dibromo-3-Chloropropane	1	17.347	0	20	87	50	150
Camphor	1	177.4907	0	200	89	20	150
Hexachlorobutadiene	1	19.2815	0	20	96	50	150
1,2,4-Trichlorobenzene	1	18.9844	0	20	95	70	130
1,2,3-Trichlorobenzene	1	18.6384	0	20	93	70	130
Naphthalene	1	18.665	0	20	93	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: MBS67240

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8M12797.D	AD02720-011(MSD)	2/28/2018 11:34:00 PM
Duplicate(If applicable):	8M12796.D	AD02720-011(MS)	2/28/2018 11:16:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	18.0391	15.0632	18	30
Dichlorodifluoromethane	1	19.9128	16.4524	19	30
Chloromethane	1	18.3748	15.5062	17	30
Bromomethane	1	18.0133	15.2384	17	30
Vinyl Chloride	1	19.5478	16.5741	16	40
Chloroethane	1	19.4849	16.7757	15	30
Trichlorofluoromethane	1	19.867	16.5502	18	30
Ethyl ether	1	18.2029	15.3106	17	30
Furan	1	18.0854	15.0968	18	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	20.6152	17.114	19	30
Methylene Chloride	1	18.5252	15.5665	17	30
Acrolein	1	96.5551	83.5879	14	30
Acrylonitrile	1	19.3672	16.5881	15	30
Iodomethane	1	16.7027	11.9385	33*	30
Acetone	1	94.9308	81.3007	15	30
Carbon Disulfide	1	19.1173	16.0956	17	30
t-Butyl Alcohol	1	92.7288	77.9947	17	30
n-Hexane	1	21.2798	17.1795	21	30
Di-isopropyl-ether	1	18.5288	15.8884	15	30
1,1-Dichloroethene	1	19.323	16.3228	17	40
Methyl Acetate	1	18.7752	15.9926	16	30
Methyl-t-butyl ether	1	18.4357	15.6192	17	30
1,1-Dichloroethane	1	18.8521	16.0671	16	40
trans-1,2-Dichloroethene	1	19.2124	16.3468	16	30
Ethyl-t-butyl ether	1	17.3915	15.2662	13	30
cis-1,2-Dichloroethene	1	17.7132	15.8912	11	30
Bromochloromethane	1	17.5275	15.7173	11	30
2,2-Dichloropropane	1	18.4812	16.8149	9.4	30
Ethyl acetate	1	17.4204	16.0752	8	30
1,4-Dioxane	1	1321.414	1210.131	8.8	30
1,1-Dichloropropene	1	18.5121	15.8343	16	30
Chloroform	1	17.4198	15.4055	12	40
Cyclohexane	1	19.4153	16.2707	18	30
1,2-Dichloroethane	1	16.7524	16.0626	4.2	40
2-Butanone	1	11.192	10.4646	6.7	40
1,1,1-Trichloroethane	1	17.9284	15.215	16	30
Carbon Tetrachloride	1	18.4738	16.4137	12	40
Vinyl Acetate	1	21.216	17.4441	20	30
Bromodichloromethane	1	17.0954	16.0753	6.2	30
Methylcyclohexane	1	19.3088	17.2502	11	30
Dibromomethane	1	17.5141	15.9202	9.5	30
1,2-Dichloropropane	1	17.7735	16.3089	8.6	30
Trichloroethene	1	18.1418	16.7376	8.1	40
Benzene	1	18.1921	16.555	9.4	40
tert-Amyl methyl ether	1	17.3475	15.8326	9.1	30
Iso-propylacetate	1	16.8817	15.1477	11	30
Methyl methacrylate	1	16.39	14.8665	9.7	30
Dibromochloromethane	1	18.699	15.2928	20	30
2-Chloroethylvinylether	1	0	0	NA	30
cis-1,3-Dichloropropene	1	17.5839	14.5201	19	30
trans-1,3-Dichloropropene	1	18.2604	14.9542	20	30
Ethyl methacrylate	1	16.823	13.8301	20	30
1,1,2-Trichloroethane	1	19.252	15.8562	19	30
1,2-Dibromoethane	1	18.1079	15.5558	15	30
1,3-Dichloropropane	1	18.0847	15.8259	13	30
4-Methyl-2-Pentanone	1	17.4302	13.7085	24	30
2-Hexanone	1	17.1993	15.8861	7.9	30
Tetrachloroethene	1	19.139	16.4158	15	40
Toluene	1	18.5836	14.8767	22	40
1,1,1,2-Tetrachloroethane	1	18.6068	14.9035	22	30
Chlorobenzene	1	18.5362	15.2814	19	40
n-Butyl acrylate	1	16.8703	15.2868	9.8	30
n-Amyl acetate	1	16.3598	14.3485	13	30

Form3
RPD Data Laboratory Limits
QC Batch: MBS67240

Bromoform	1	16.5989	14.1497	16	30
Ethylbenzene	1	17.7346	14.4731	20	30
1,1,2,2-Tetrachloroethane	1	18.9241	14.4841	27	30
Styrene	1	18.0473	15.5591	15	30
m&p-Xylenes	1	37.6146	31.4263	18	30
o-Xylene	1	17.9438	15.5399	14	30
trans-1,4-Dichloro-2-butene	1	16.2221	13.3275	20	30
1,3-Dichlorobenzene	1	17.9211	15.5617	14	30
1,4-Dichlorobenzene	1	18.5161	15.3976	18	40
1,2-Dichlorobenzene	1	18.6104	15.428	19	40
Isopropylbenzene	1	18.1537	15.3855	17	30
Cyclohexanone	1	29.5325	26.0254	13	30
Camphene	1	11.5136	10.0912	13	30
1,2,3-Trichloropropane	1	18.8226	15.3386	20	30
2-Chlorotoluene	1	19.0552	14.5142	27	30
p-Ethyltoluene	1	19.7833	15.144	27	30
4-Chlorotoluene	1	19.2732	15.7606	20	30
n-Propylbenzene	1	20.1933	15.398	27	40
Bromobenzene	1	18.2343	14.626	22	30
1,3,5-Trimethylbenzene	1	19.6388	15.5367	23	30
Butyl methacrylate	1	19.8716	14.9232	28	30
t-Butylbenzene	1	18.8497	15.3038	21	30
1,2,4-Trimethylbenzene	1	18.9578	15.1283	22	30
sec-Butylbenzene	1	19.4635	15.5757	22	40
4-Isopropyltoluene	1	18.2461	15.0682	19	30
n-Butylbenzene	1	18.1227	15.3429	17	30
p-Diethylbenzene	1	17.7	15.2411	15	30
1,2,4,5-Tetramethylbenzene	1	18.3566	14.6841	22	30
1,2-Dibromo-3-Chloropropane	1	17.347	14.8836	15	30
Camphor	1	177.4907	139.8584	24	30
Hexachlorobutadiene	1	19.2815	15.7472	20	30
1,2,4-Trichlorobenzene	1	18.9844	14.7935	25	30
1,2,3-Trichlorobenzene	1	18.6384	13.9463	29	30
Naphthalene	1	18.665	14.5408	25	30

* - Indicates outside of limits

NA - Both concentrations=0... no result can be calculated

Form3
Recovery Data Laboratory Limits
QC Batch: MBS67258

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M125783.D	AD02764-004(MS:AD02764-003	3/1/2018 8:37:00 PM
Non Spike(If applicable):	3M125781.D	AD02764-003	3/1/2018 8:04:00 PM
Inst Blank(If applicable):			

Method: 8260C | Matrix: Aqueous | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	12.3884	0	20	62	50	150
Dichlorodifluoromethane	1	10.8297	0	20	54	50	150
Chloromethane	1	12.2576	0	20	61	50	150
Bromomethane	1	13.4764	0	20	67	50	150
Vinyl Chloride	1	14.6823	0	20	73	50	150
Chloroethane	1	16.3664	0	20	82	50	150
Trichlorofluoromethane	1	16.8714	0	20	84	50	150
Ethyl ether	1	15.5539	0	20	78	50	150
Furan	1	13.752	0	20	69	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	20.3429	0	20	102	50	150
Methylene Chloride	1	15.7642	0	20	79	70	130
Acrolein	1	78.9078	0	100	79	50	150
Acrylonitrile	1	16.0787	0	20	80	50	150
Iodomethane	1	17.1406	0	20	86	50	150
Acetone	1	73.1532	0	100	73	50	150
Carbon Disulfide	1	16.6607	0	20	83	50	150
t-Butyl Alcohol	1	70.3078	0	100	70	50	150
n-Hexane	1	16.6065	0	20	83	70	130
Di-isopropyl-ether	1	15.4836	0	20	77	70	130
1,1-Dichloroethene	1	15.5571	0	20	78	70	130
Methyl Acetate	1	14.707	0	20	74	50	150
Methyl-t-butyl ether	1	15.7353	0	20	79	70	130
1,1-Dichloroethane	1	16.4166	0	20	82	70	130
trans-1,2-Dichloroethene	1	16.7686	0	20	84	70	130
Ethyl-t-butyl ether	1	15.7467	0	20	79	70	130
cis-1,2-Dichloroethene	1	17.2829	0	20	86	70	130
Bromochloromethane	1	16.8315	0	20	84	70	130
2,2-Dichloropropane	1	18.3996	0	20	92	70	130
Ethyl acetate	1	15.729	0	20	79	50	150
1,4-Dioxane	1	842.0993	0	1000	84	50	150
1,1-Dichloropropene	1	16.9968	0	20	85	70	130
Chloroform	1	16.4607	0	20	82	70	130
Cyclohexane	1	20.0555	0	20	100	70	130
1,2-Dichloroethane	1	15.9843	0	20	80	70	130
2-Butanone	1	14.7312	0	20	74	50	150
1,1,1-Trichloroethane	1	17.3948	0	20	87	70	130
Carbon Tetrachloride	1	18.0308	0	20	90	50	150
Vinyl Acetate	1	16.0707	0	20	80	50	150
Bromodichloromethane	1	16.3011	0	20	82	70	130
Methylcyclohexane	1	21.3578	0	20	107	70	130
Dibromomethane	1	16.9049	0	20	85	70	130
1,2-Dichloropropane	1	16.11	0	20	81	70	130
Trichloroethene	1	18.8163	0	20	94	70	130
Benzene	1	16.364	0	20	82	70	130
tert-Amyl methyl ether	1	16.5948	0	20	83	70	130
Iso-propylacetate	1	14.2914	0	20	71	70	130
Methyl methacrylate	1	13.6731	0	20	68*	70	130
Dibromochloromethane	1	15.1541	0	20	76	70	130
2-Chloroethylvinylether	1	0	0	20	0*	70	130
cis-1,3-Dichloropropene	1	14.2499	0	20	71	70	130
trans-1,3-Dichloropropene	1	14.576	0	20	73	70	130
Ethyl methacrylate	1	13.2263	0	20	66*	70	130
1,1,2-Trichloroethane	1	15.5704	0	20	78	70	130
1,2-Dibromoethane	1	14.5379	0	20	73	70	130
1,3-Dichloropropane	1	15.0014	0	20	75	70	130
4-Methyl-2-Pentanone	1	12.7529	0	20	64	50	150
2-Hexanone	1	12.9537	0	20	65	50	150
Tetrachloroethene	1	16.3301	0	20	82	50	150
Toluene	1	14.9984	0	20	75	70	130
1,1,1,2-Tetrachloroethane	1	16.1448	0	20	81	70	130
Chlorobenzene	1	15.9158	0	20	80	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS67258

n-Butyl acrylate	1	12.8491	0	20	64*	70	130
n-Amyl acetate	1	14.6063	0	20	73	70	130
Bromoform	1	14.5593	0	20	73	70	130
Ethylbenzene	1	17.1974	0	20	86	70	130
1,1,2,2-Tetrachloroethane	1	14.3371	0	20	72	70	130
Styrene	1	16.3368	0	20	82	70	130
m&p-Xylenes	1	31.0088	0	40	78	70	130
o-Xylene	1	15.9532	0	20	80	70	130
trans-1,4-Dichloro-2-butene	1	12.7776	0	20	64	50	150
1,3-Dichlorobenzene	1	16.5049	0	20	83	70	130
1,4-Dichlorobenzene	1	16.5225	0	20	83	70	130
1,2-Dichlorobenzene	1	16.3301	0	20	82	70	130
Isopropylbenzene	1	16.7904	0	20	84	70	130
Cyclohexanone	1	66.7646	0	100	67	50	150
Camphene	1	6.9276	0	20	35*	70	130
1,2,3-Trichloropropane	1	14.7441	0	20	74	70	130
2-Chlorotoluene	1	15.6873	0	20	78	70	130
p-Ethyltoluene	1	17.2303	0	20	86	70	130
4-Chlorotoluene	1	15.2907	0	20	76	70	130
n-Propylbenzene	1	16.6178	0	20	83	70	130
Bromobenzene	1	14.3626	0	20	72	70	130
1,3,5-Trimethylbenzene	1	18.3331	0	20	92	70	130
Butyl methacrylate	1	13.2884	0	20	66*	70	130
t-Butylbenzene	1	16.2773	0	20	81	70	130
1,2,4-Trimethylbenzene	1	16.369	0	20	82	70	130
sec-Butylbenzene	1	16.6708	0	20	83	70	130
4-Isopropyltoluene	1	16.9143	0	20	85	70	130
n-Butylbenzene	1	16.1839	0	20	81	70	130
p-Diethylbenzene	1	16.9025	0	20	85	70	130
1,2,4,5-Tetramethylbenzene	1	18.2099	0	20	91	70	130
1,2-Dibromo-3-Chloropropane	1	12.7733	0	20	64	50	150
Camphor	1	162.839	0	200	81	20	150
Hexachlorobutadiene	1	14.6582	0	20	73	50	150
1,2,4-Trichlorobenzene	1	15.7382	0	20	79	70	130
1,2,3-Trichlorobenzene	1	14.97	0	20	75	70	130
Naphthalene	1	15.2268	0	20	76	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS67258

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M125784.D	AD02764-005(MSD:AD02764-0	3/1/2018 8:55:00 PM
Non Spike(If applicable): 3M125781.D	AD02764-003	3/1/2018 8:04:00 PM
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	12.6235	0	20	63	50	150
Dichlorodifluoromethane	1	10.5459	0	20	53	50	150
Chloromethane	1	14.1723	0	20	71	50	150
Bromomethane	1	12.8649	0	20	64	50	150
Vinyl Chloride	1	14.0142	0	20	70	50	150
Chloroethane	1	18.8397	0	20	94	50	150
Trichlorofluoromethane	1	16.5824	0	20	83	50	150
Ethyl ether	1	15.2514	0	20	76	50	150
Furan	1	14.7406	0	20	74	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	22.1368	0	20	111	50	150
Methylene Chloride	1	16.0585	0	20	80	70	130
Acrolein	1	92.1443	0	100	92	50	150
Acrylonitrile	1	16.1733	0	20	81	50	150
Iodomethane	1	18.7495	0	20	94	50	150
Acetone	1	80.3671	0	100	80	50	150
Carbon Disulfide	1	16.6464	0	20	83	50	150
t-Butyl Alcohol	1	88.0764	0	100	88	50	150
n-Hexane	1	17.0824	0	20	85	70	130
Di-isopropyl-ether	1	16.6575	0	20	83	70	130
1,1-Dichloroethene	1	16.727	0	20	84	70	130
Methyl Acetate	1	15.3951	0	20	77	50	150
Methyl-t-butyl ether	1	16.408	0	20	82	70	130
1,1-Dichloroethane	1	16.8361	0	20	84	70	130
trans-1,2-Dichloroethene	1	18.6366	0	20	93	70	130
Ethyl-t-butyl ether	1	17.1627	0	20	86	70	130
cis-1,2-Dichloroethene	1	17.8688	0	20	89	70	130
Bromochloromethane	1	15.637	0	20	78	70	130
2,2-Dichloropropane	1	20.002	0	20	100	70	130
Ethyl acetate	1	16.4478	0	20	82	50	150
1,4-Dioxane	1	936.1828	0	1000	94	50	150
1,1-Dichloropropene	1	18.1574	0	20	91	70	130
Chloroform	1	17.0428	0	20	85	70	130
Cyclohexane	1	21.207	0	20	106	70	130
1,2-Dichloroethane	1	17.5147	0	20	88	70	130
2-Butanone	1	17.7143	0	20	89	50	150
1,1,1-Trichloroethane	1	17.7375	0	20	89	70	130
Carbon Tetrachloride	1	19.4161	0	20	97	50	150
Vinyl Acetate	1	16.95	0	20	85	50	150
Bromodichloromethane	1	18.2206	0	20	91	70	130
Methylcyclohexane	1	23.1285	0	20	116	70	130
Dibromomethane	1	18.8343	0	20	94	70	130
1,2-Dichloropropane	1	17.2724	0	20	86	70	130
Trichloroethene	1	19.2177	0	20	96	70	130
Benzene	1	17.5581	0	20	88	70	130
tert-Amyl methyl ether	1	17.396	0	20	87	70	130
Iso-propylacetate	1	15.4389	0	20	77	70	130
Methyl methacrylate	1	15.0515	0	20	75	70	130
Dibromochloromethane	1	16.5084	0	20	83	70	130
2-Chloroethylvinylether	1	0	0	20	0 *	70	130
cis-1,3-Dichloropropene	1	15.7924	0	20	79	70	130
trans-1,3-Dichloropropene	1	16.2219	0	20	81	70	130
Ethyl methacrylate	1	16.277	0	20	81	70	130
1,1,2-Trichloroethane	1	17.3858	0	20	87	70	130
1,2-Dibromoethane	1	15.5307	0	20	78	70	130
1,3-Dichloropropane	1	16.0211	0	20	80	70	130
4-Methyl-2-Pentanone	1	14.3603	0	20	72	50	150
2-Hexanone	1	14.5873	0	20	73	50	150
Tetrachloroethene	1	18.887	0	20	94	50	150
Toluene	1	15.4525	0	20	77	70	130
1,1,1,2-Tetrachloroethane	1	17.2083	0	20	86	70	130
Chlorobenzene	1	17.4187	0	20	87	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS67258

n-Butyl acrylate	1	13.0914	0	20	65*	70	130
n-Amyl acetate	1	15.1591	0	20	76	70	130
Bromoform	1	14.5944	0	20	73	70	130
Ethylbenzene	1	16.9361	0	20	85	70	130
1,1,2,2-Tetrachloroethane	1	14.0353	0	20	70	70	130
Styrene	1	16.3768	0	20	82	70	130
m&p-Xylenes	1	32.6916	0	40	82	70	130
o-Xylene	1	17.3314	0	20	87	70	130
trans-1,4-Dichloro-2-butene	1	12.2775	0	20	61	50	150
1,3-Dichlorobenzene	1	16.1762	0	20	81	70	130
1,4-Dichlorobenzene	1	16.344	0	20	82	70	130
1,2-Dichlorobenzene	1	16.2121	0	20	81	70	130
Isopropylbenzene	1	16.6381	0	20	83	70	130
Cyclohexanone	1	70.5519	0	100	71	50	150
Camphene	1	5.8134	0	20	29*	70	130
1,2,3-Trichloropropane	1	14.7281	0	20	74	70	130
2-Chlorotoluene	1	16.7374	0	20	84	70	130
p-Ethyltoluene	1	16.0274	0	20	80	70	130
4-Chlorotoluene	1	15.7884	0	20	79	70	130
n-Propylbenzene	1	16.2159	0	20	81	70	130
Bromobenzene	1	14.706	0	20	74	70	130
1,3,5-Trimethylbenzene	1	17.0623	0	20	85	70	130
Butyl methacrylate	1	13.743	0	20	69*	70	130
t-Butylbenzene	1	16.8962	0	20	84	70	130
1,2,4-Trimethylbenzene	1	16.7767	0	20	84	70	130
sec-Butylbenzene	1	16.9838	0	20	85	70	130
4-Isopropyltoluene	1	17.8658	0	20	89	70	130
n-Butylbenzene	1	16.8634	0	20	84	70	130
p-Diethylbenzene	1	16.6738	0	20	83	70	130
1,2,4,5-Tetramethylbenzene	1	17.513	0	20	88	70	130
1,2-Dibromo-3-Chloropropane	1	12.23	0	20	61	50	150
Camphor	1	168.2989	0	200	84	20	150
Hexachlorobutadiene	1	14.6305	0	20	73	50	150
1,2,4-Trichlorobenzene	1	15.3671	0	20	77	70	130
1,2,3-Trichlorobenzene	1	16.339	0	20	82	70	130
Naphthalene	1	16.1059	0	20	81	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: MBS67258

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M125784.D	AD02764-005(MSD:AD02764-0	3/1/2018 8:55:00 PM
Duplicate(If applicable):	3M125783.D	AD02764-004(MS:AD02764-003	3/1/2018 8:37:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	12.6235	12.3884	1.9	30
Dichlorodifluoromethane	1	10.5459	10.8297	2.7	30
Chloromethane	1	14.1723	12.2576	14	30
Bromomethane	1	12.8649	13.4764	4.6	30
Vinyl Chloride	1	14.0142	14.6823	4.7	40
Chloroethane	1	18.8397	16.3664	14	30
Trichlorofluoromethane	1	16.5824	16.8714	1.7	30
Ethyl ether	1	15.2514	15.5539	2	30
Furan	1	14.7406	13.752	6.9	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	22.1368	20.3429	8.4	30
Methylene Chloride	1	16.0585	15.7642	1.8	30
Acrolein	1	92.1443	78.9078	15	30
Acrylonitrile	1	16.1733	16.0787	0.59	30
Iodomethane	1	18.7495	17.1406	9	30
Acetone	1	80.3671	73.1532	9.4	30
Carbon Disulfide	1	16.6464	16.6607	0.09	30
t-Butyl Alcohol	1	88.0764	70.3078	22	30
n-Hexane	1	17.0824	16.6065	2.8	30
Di-isopropyl-ether	1	16.6575	15.4836	7.3	30
1,1-Dichloroethene	1	16.727	15.5571	7.2	40
Methyl Acetate	1	15.3951	14.707	4.6	30
Methyl-t-butyl ether	1	16.408	15.7353	4.2	30
1,1-Dichloroethane	1	16.8361	16.4166	2.5	40
trans-1,2-Dichloroethene	1	18.6366	16.7686	11	30
Ethyl-t-butyl ether	1	17.1627	15.7467	8.6	30
cis-1,2-Dichloroethene	1	17.8688	17.2829	3.3	30
Bromochloromethane	1	15.637	16.8315	7.4	30
2,2-Dichloropropane	1	20.002	18.3996	8.3	30
Ethyl acetate	1	16.4478	15.729	4.5	30
1,4-Dioxane	1	936.1828	842.0993	11	30
1,1-Dichloropropene	1	18.1574	16.9968	6.6	30
Chloroform	1	17.0428	16.4607	3.5	40
Cyclohexane	1	21.207	20.0555	5.6	30
1,2-Dichloroethane	1	17.5147	15.9843	9.1	40
2-Butanone	1	17.7143	14.7312	18	40
1,1,1-Trichloroethane	1	17.7375	17.3948	2	30
Carbon Tetrachloride	1	19.4161	18.0308	7.4	40
Vinyl Acetate	1	16.95	16.0707	5.3	30
Bromodichloromethane	1	18.2206	16.3011	11	30
Methylcyclohexane	1	23.1285	21.3578	8	30
Dibromomethane	1	18.8343	16.9049	11	30
1,2-Dichloropropane	1	17.2724	16.11	7	30
Trichloroethene	1	19.2177	18.8163	2.1	40
Benzene	1	17.5581	16.364	7	40
tert-Amyl methyl ether	1	17.396	16.5948	4.7	30
Iso-propylacetate	1	15.4389	14.2914	7.7	30
Methyl methacrylate	1	15.0515	13.6731	9.6	30
Dibromochloromethane	1	16.5084	15.1541	8.6	30
2-Chloroethylvinylether	1	0	0	NA	30
cis-1,3-Dichloropropene	1	15.7924	14.2499	10	30
trans-1,3-Dichloropropene	1	16.2219	14.576	11	30
Ethyl methacrylate	1	16.277	13.2263	21	30
1,1,2-Trichloroethane	1	17.3858	15.5704	11	30
1,2-Dibromoethane	1	15.5307	14.5379	6.6	30
1,3-Dichloropropane	1	16.0211	15.0014	6.6	30
4-Methyl-2-Pentanone	1	14.3603	12.7529	12	30
2-Hexanone	1	14.5873	12.9537	12	30
Tetrachloroethene	1	18.887	16.3301	15	40
Toluene	1	15.4525	14.9984	3	40
1,1,1,2-Tetrachloroethane	1	17.2083	16.1448	6.4	30
Chlorobenzene	1	17.4187	15.9158	9	40
n-Butyl acrylate	1	13.0914	12.8491	1.9	30
n-Amyl acetate	1	15.1591	14.6063	3.7	30

Form3
RPD Data Laboratory Limits
QC Batch: MBS67258

Bromoform	1	14.5944	14.5593	0.24	30
Ethylbenzene	1	16.9361	17.1974	1.5	30
1,1,2,2-Tetrachloroethane	1	14.0353	14.3371	2.1	30
Styrene	1	16.3768	16.3368	0.24	30
m&p-Xylenes	1	32.6916	31.0088	5.3	30
o-Xylene	1	17.3314	15.9532	8.3	30
trans-1,4-Dichloro-2-butene	1	12.2775	12.7776	4	30
1,3-Dichlorobenzene	1	16.1762	16.5049	2	30
1,4-Dichlorobenzene	1	16.344	16.5225	1.1	40
1,2-Dichlorobenzene	1	16.2121	16.3301	0.73	40
Isopropylbenzene	1	16.6381	16.7904	0.91	30
Cyclohexanone	1	70.5519	66.7646	5.5	30
Camphene	1	5.8134	6.9276	17	30
1,2,3-Trichloropropane	1	14.7281	14.7441	0.11	30
2-Chlorotoluene	1	16.7374	15.6873	6.5	30
p-Ethyltoluene	1	16.0274	17.2303	7.2	30
4-Chlorotoluene	1	15.7884	15.2907	3.2	30
n-Propylbenzene	1	16.2159	16.6178	2.4	40
Bromobenzene	1	14.706	14.3626	2.4	30
1,3,5-Trimethylbenzene	1	17.0623	18.3331	7.2	30
Butyl methacrylate	1	13.743	13.2884	3.4	30
t-Butylbenzene	1	16.8962	16.2773	3.7	30
1,2,4-Trimethylbenzene	1	16.7767	16.369	2.5	30
sec-Butylbenzene	1	16.9838	16.6708	1.9	40
4-Isopropyltoluene	1	17.8658	16.9143	5.5	30
n-Butylbenzene	1	16.8634	16.1839	4.1	30
p-Diethylbenzene	1	16.6738	16.9025	1.4	30
1,2,4,5-Tetramethylbenzene	1	17.513	18.2099	3.9	30
1,2-Dibromo-3-Chloropropane	1	12.23	12.7733	4.3	30
Camphor	1	168.2989	162.839	3.3	30
Hexachlorobutadiene	1	14.6305	14.6582	0.19	30
1,2,4-Trichlorobenzene	1	15.3671	15.7382	2.4	30
1,2,3-Trichlorobenzene	1	16.339	14.97	8.7	30
Naphthalene	1	16.1059	15.2268	5.6	30

* - Indicates outside of limits

NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 8M12790.D
Matrix: Aqueous

Blank Analysis Date: 02/28/18 21:29
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260C

Sample Number	Data File	Analysis Date
AD02764-001	8M12807.D	03/01/18 02:32
AD02764-002	8M12808.D	03/01/18 02:50
AD02764-006	8M12809.D	03/01/18 03:08
AD02764-007	8M12802.D	03/01/18 01:03
AD02764-008	8M12803.D	03/01/18 01:21
AD02720-011(MSD	8M12797.D	02/28/18 23:34
AD02720-011(MS)	8M12796.D	02/28/18 23:16
AD02720-011	8M12794.D	02/28/18 22:41
MBS67240	8M12791.D	02/28/18 21:47

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 3M125780.D
Matrix: Aqueous

Blank Analysis Date: 03/01/18 19:47
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260C

Sample Number	Data File	Analysis Date
AD02764-003	3M125781.D	03/01/18 20:04
AD02764-004(MS:	3M125783.D	03/01/18 20:37
AD02764-005(MSD	3M125784.D	03/01/18 20:55
MBS67258	3M125782.D	03/01/18 20:20

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 3
Data File: 3M125263.D
Analysis Date: 02/21/18 07:06
Method: EPA 8260C

Tune Scan/Time Range: Average of 4.936 to 4.975 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	19.9	3471	PASS
75	95	30	60	51.3	8945	PASS
95	95	100	100	100.0	17446	PASS
96	95	5	9	7.7	1340	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	74.1	12923	PASS
175	174	5	9	7.0	899	PASS
176	174	95	101	98.8	12769	PASS
177	176	5	9	6.2	791	PASS

Data File	Sample Number	Analysis Date:
3M125265.D	BLK	02/21/18 07:24
3M125267.D	CAL @ 500 PPB	02/21/18 07:58
3M125269.D	CAL @ 250 PPB	02/21/18 08:31
3M125271.D	CAL @ 100 PPB	02/21/18 09:05
3M125273.D	CAL @ 50 PPB	02/21/18 09:38
3M125275.D	CAL @ 20 PPB	02/21/18 10:12
3M125281.D	CAL @ 0.5 PPB	02/21/18 11:52
3M125282.D	CAL @ 1 PPB	02/21/18 12:09
3M125283.D	CAL @ 5 PPB	02/21/18 12:25
3M125284.D	CAL @ 10 PPB	02/21/18 12:42
3M125287.D	ICV	02/21/18 13:32
3M125289.D	DAILY BLANK	02/21/18 14:06
3M125290.D	DAILY BLANK	02/21/18 14:22
3M125291.D	AD02645-002	02/21/18 14:39
3M125292.D	AD02650-001	02/21/18 14:56
3M125293.D	MBS66857	02/21/18 15:12
3M125294.D	MBS66858	02/21/18 15:29
3M125295.D	AD02672-005(MS)	02/21/18 15:46
3M125296.D	AD02672-005(MSD	02/21/18 16:02

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 8
Data File: 8M12770.D
Analysis Date: 02/28/18 15:43
Method: EPA 8260C

Tune Scan/Time Range: Average of 7.385 to 7.392 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	15.1	3505	PASS
75	95	30	60	44.6	10375	PASS
95	95	100	100	100.0	23267	PASS
96	95	5	9	6.6	1528	PASS
173	174	0.00	2	0.2	50	PASS
174	95	50	100	87.5	20363	PASS
175	174	5	9	8.1	1644	PASS
176	174	95	101	95.5	19440	PASS
177	176	5	9	7.0	1360	PASS

Data File	Sample Number	Analysis Date:
8M12772.D	CAL @ 0.5 PPB	02/28/18 16:15
8M12773.D	CAL @ 1 PPB	02/28/18 16:33
8M12774.D	CAL @ 5 PPB	02/28/18 16:51
8M12775.D	CAL @ 10 PPB	02/28/18 17:09
8M12776.D	CAL @ 20 PPB	02/28/18 17:26
8M12777.D	CAL @ 500 PPB	02/28/18 17:44
8M12779.D	CAL @ 250 PPB	02/28/18 18:20
8M12781.D	CAL @ 100 PPB	02/28/18 18:56
8M12783.D	CAL @ 50 PPB	02/28/18 19:31
8M12785.D	STD	02/28/18 20:07
8M12787.D	ICV	02/28/18 20:36
8M12790.D	DAILY BLANK	02/28/18 21:29
8M12791.D	MBS67240	02/28/18 21:47
8M12792.D	AD02720-009	02/28/18 22:05
8M12793.D	AD02720-010	02/28/18 22:23
8M12794.D	AD02720-011	02/28/18 22:41
8M12795.D	AD02720-012	02/28/18 22:58
8M12796.D	AD02720-011(MS)	02/28/18 23:16
8M12797.D	AD02720-011(MSD	02/28/18 23:34
8M12798.D	AD02832-001	02/28/18 23:52
8M12799.D	AD02832-002	03/01/18 00:10
8M12800.D	AD02709-002	03/01/18 00:28
8M12801.D	AD02709-003	03/01/18 00:45
8M12802.D	AD02764-007	03/01/18 01:03
8M12803.D	AD02764-008	03/01/18 01:21
8M12804.D	AD02771-001	03/01/18 01:39
8M12805.D	AD02771-002	03/01/18 01:57
8M12806.D	AD02709-001	03/01/18 02:14
8M12807.D	AD02764-001	03/01/18 02:32
8M12808.D	AD02764-002	03/01/18 02:50
8M12809.D	AD02764-006	03/01/18 03:08
8M12810.D	AD02780-001	03/01/18 03:26
8M12811.D	AD02780-002	03/01/18 03:44
8M12812.D	AD02780-004	03/01/18 04:02
8M12813.D	AD02780-005	03/01/18 04:20
8M12814.D	STD	03/01/18 04:37
8M12815.D	BLK	03/01/18 04:55

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 3
Data File: 3M125775.D
Analysis Date: 03/01/18 18:28
Method: EPA 8260C

Tune Scan/Time Range: Average of 4.946 to 5.015 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	19.6	3917	PASS
75	95	30	60	49.7	9942	PASS
95	95	100	100	100.0	20009	PASS
96	95	5	9	7.1	1429	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	74.9	14992	PASS
175	174	5	9	7.2	1081	PASS
176	174	95	101	98.6	14788	PASS
177	176	5	9	5.8	861	PASS

Data File	Sample Number	Analysis Date:
3M125776.D	CAL @ 20 PPB	03/01/18 18:38
3M125778.D	BLK	03/01/18 19:14
3M125779.D	DAILY BLANK	03/01/18 19:30
3M125780.D	DAILY BLANK	03/01/18 19:47
3M125781.D	AD02764-003	03/01/18 20:04
3M125782.D	MBS67258	03/01/18 20:20
3M125783.D	AD02764-004(MS:	03/01/18 20:37
3M125784.D	AD02764-005(MSD	03/01/18 20:55
3M125785.D	BLK	03/01/18 21:11
3M125786.D	AD02792-002	03/01/18 21:28
3M125787.D	AD02792-003	03/01/18 21:45
3M125788.D	AD02780-009	03/01/18 22:01
3M125789.D	AD02775-002	03/01/18 22:18
3M125790.D	AD02792-001	03/01/18 22:31
3M125791.D	AD02813-001	03/01/18 22:49
3M125792.D	AD02799-002	03/01/18 23:05
3M125793.D	AD02775-003	03/01/18 23:24
3M125794.D	AD02780-003(20X)	03/01/18 23:41
3M125795.D	AD02780-006(5X)	03/01/18 23:58
3M125796.D	AD02780-007(20X)	03/02/18 00:15
3M125797.D	AD02780-008(10X)	03/02/18 00:31
3M125798.D	AD02813-002(10X)	03/02/18 00:48
3M125799.D	AD02813-004(10X)	03/02/18 01:05
3M125800.D	AD02813-003(10X)	03/02/18 01:21
3M125801.D	MBS67259	03/02/18 01:38
3M125802.D	MBS67260	03/02/18 01:55
3M125803.D	BLK	03/02/18 02:11
3M125804.D	AD02775-001	03/02/18 02:28
3M125805.D	AD02799-001	03/02/18 02:45
3M125806.D	AD02736-001	03/02/18 03:01
3M125807.D	AD02736-005	03/02/18 03:18
3M125808.D	AD02736-008	03/02/18 03:35
3M125809.D	AD02736-010	03/02/18 03:51
3M125810.D	AD02736-004(400u	03/02/18 04:08
3M125811.D	AD02736-007(400u	03/02/18 04:24
3M125812.D	AD02736-009(80uL	03/02/18 04:41
3M125813.D	AD02736-006(400u	03/02/18 04:58
3M125814.D	AD02736-011(MS)	03/02/18 05:14
3M125815.D	AD02736-011(MSD	03/02/18 05:31
3M125816.D	MBS67261	03/02/18 05:48
3M125817.D	AD02736-011	03/02/18 06:04

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FORM8

Internal Standard Areas

Evaluation Std Data File: 3M125275.D Method: EPA 8260C

Analysis Date/Time: 02/21/18 10:12

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	314974	4.94	241752	6.77	105038	8.21								
Eval File Area Limit:	157487-629948		120876-483504		52519-210076									
Eval File Rt Limit:	4.44-5.44		6.27-7.27		7.71-8.71									

Data File	Sample						
3M125265.D	BLK	277048	4.94	214430	6.77	90204	8.21
3M125267.D	CAL @ 500 PPB	285517	4.94	216249	6.77	83955	8.21
3M125269.D	CAL @ 250 PPB	290589	4.94	222125	6.77	92255	8.21
3M125271.D	CAL @ 100 PPB	311819	4.95	240979	6.78	97312	8.22
3M125273.D	CAL @ 50 PPB	297035	4.94	237279	6.77	95829	8.21
3M125275.D	CAL @ 20 PPB	314974	4.94	241752	6.77	105038	8.21
3M125281.D	CAL @ 0.5 PPB	304201	4.94	229725	6.77	96407	8.21
3M125282.D	CAL @ 1 PPB	314772	4.94	238770	6.77	107685	8.21
3M125283.D	CAL @ 5 PPB	317078	4.94	238991	6.77	107957	8.21
3M125284.D	CAL @ 10 PPB	279249	4.94	219722	6.77	95197	8.21
3M125287.D	ICV	303754	4.94	232663	6.77	102899	8.21
3M125289.D	DAILY BLANK	312401	4.94	241067	6.77	104987	8.21
3M125290.D	DAILY BLANK	311171	4.94	235924	6.77	104747	8.21
3M125291.D	AD02645-002	312540	4.93	238316	6.77	107467	8.21
3M125292.D	AD02650-001	309788	4.93	245160	6.77	111877	8.21
3M125293.D	MBS66857	294299	4.94	235419	6.77	99882	8.21
3M125294.D	MBS66858	320794	4.94	253337	6.77	109570	8.21
3M125295.D	AD02672-005(MS)	290391	4.94	233207	6.78	101103	8.21
3M125296.D	AD02672-005(MSD)	319004	4.94	258125	6.77	112273	8.21

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 8M12776.D Method: EPA 8260C

Analysis Date/Time: 02/28/18 17:26

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	421075	5.19	310238	6.78	154896	8.03								
Eval File Area Limit:	210538-842150		155119-620476		77448-309792									
Eval File Rt Limit:	4.69-5.69		6.28-7.28		7.53-8.53									

Data File	Sample						
8M12772.D	CAL @ 0.5 PPB	429901	5.19	328337	6.78	162785	8.03
8M12773.D	CAL @ 1 PPB	401455	5.19	301686	6.78	146135	8.03
8M12774.D	CAL @ 5 PPB	428440	5.19	303243	6.78	152765	8.03
8M12775.D	CAL @ 10 PPB	413310	5.19	307387	6.78	152938	8.03
8M12776.D	CAL @ 20 PPB	421075	5.19	310238	6.78	154896	8.03
8M12777.D	CAL @ 500 PPB	404425	5.19	310468	6.79	155502	8.04
8M12779.D	CAL @ 250 PPB	423129	5.19	305754	6.78	164085	8.03
8M12781.D	CAL @ 100 PPB	426871	5.19	300079	6.78	149644	8.03
8M12783.D	CAL @ 50 PPB	434609	5.19	300903	6.78	153138	8.03
8M12785.D	STD	454696	5.19	344092	6.78	175315	8.03
8M12787.D	ICV	404942	5.19	298956	6.78	153814	8.03
8M12790.D	DAILY BLANK	394377	5.19	298349	6.78	146149	8.03
8M12791.D	MBS67240	428004	5.19	302105	6.78	143472	8.03
8M12792.D	AD02720-009	404727	5.19	330089	6.78	158828	8.03
8M12793.D	AD02720-010	410130	5.19	314004	6.78	154112	8.03
8M12794.D	AD02720-011	411849	5.19	298694	6.78	141578	8.03
8M12795.D	AD02720-012	396230	5.19	298519	6.78	145802	8.03
8M12796.D	AD02720-011(MS)	413110	5.19	311682	6.78	161183	8.03
8M12797.D	AD02720-011(MSD)	422834	5.19	299507	6.78	160010	8.03
8M12798.D	AD02832-001	429687	5.19	325998	6.78	155328	8.03
8M12799.D	AD02832-002	429408	5.19	312752	6.78	150402	8.03
8M12800.D	AD02709-002	391971	5.19	310982	6.78	138401	8.03
8M12801.D	AD02709-003	427290	5.19	330691	6.78	162246	8.03
8M12802.D	AD02764-007	397377	5.19	312948	6.78	153604	8.03
8M12803.D	AD02764-008	433219	5.19	335371	6.78	164077	8.03
8M12804.D	AD02771-001	418591	5.19	322980	6.78	158631	8.03
8M12805.D	AD02771-002	423221	5.19	327224	6.78	159625	8.03
8M12806.D	AD02709-001	425256	5.19	327428	6.78	158187	8.03
8M12807.D	AD02764-001	433860	5.19	334318	6.78	162026	8.03
8M12808.D	AD02764-002	418067	5.19	323352	6.78	157117	8.03
8M12809.D	AD02764-006	398817	5.19	305740	6.78	149419	8.03
8M12810.D	AD02780-001	424945	5.19	325404	6.78	159425	8.03

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

8022222 0067

FORM8

Internal Standard Areas

Evaluation Std Data File: 8M12776.D Method: EPA 8260C

Analysis Date/Time: 02/28/18 17:26

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	421075	5.19	310238	6.78	154896	8.03								
Eval File Area Limit:	210538-842150		155119-620476		77448-309792									
Eval File Rt Limit:	4.69-5.69		6.28-7.28		7.53-8.53									

Data File	Sample						
8M12811.D	AD02780-002	433876	5.19	327201	6.78	162986	8.03
8M12812.D	AD02780-004	407734	5.19	302679	6.78	147963	8.03
8M12813.D	AD02780-005	420524	5.19	324713	6.78	162838	8.03
8M12814.D	STD	412105	5.19	308356	6.78	153919	8.03
8M12815.D	BLK	419050	5.19	320903	6.78	158501	8.03

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

8022222 0068

FORM8

Internal Standard Areas

Evaluation Std Data File: 3M125776.D Method: EPA 8260C

Analysis Date/Time: 03/01/18 18:38

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	470541	4.96	389693	6.79	166353	8.24								
Eval File Area Limit:	235270-941082		194846-779386		83176-332706									
Eval File Rt Limit:	4.46-5.46		6.29-7.29		7.74-8.74									

Data File	Sample						
3M125778.D	BLK	437958	4.96	374223	6.80	159575	8.24
3M125779.D	DAILY BLANK	458331	4.96	390093	6.80	164761	8.24
3M125780.D	DAILY BLANK	459412	4.96	392088	6.80	172608	8.24
3M125781.D	AD02764-003	420705	4.96	362731	6.80	155903	8.24
3M125782.D	MBS67258	460129	4.96	382855	6.80	171243	8.24
3M125783.D	AD02764-004(MS:AD	458402	4.97	391198	6.80	165950	8.24
3M125784.D	AD02764-005(MSD:A	418572	4.96	352042	6.80	158844	8.24
3M125785.D	BLK	455227	4.97	383095	6.80	166703	8.24
3M125786.D	AD02792-002	474220	4.96	400275	6.80	167092	8.24
3M125787.D	AD02792-003	416898	4.96	354831	6.80	151586	8.24
3M125788.D	AD02780-009	434192	4.96	361315	6.80	152076	8.24
3M125789.D	AD02775-002	460553	4.96	378927	6.80	164476	8.24
3M125790.D	AD02792-001	438854	4.96	364241	6.80	153289	8.24
3M125791.D	AD02813-001	427151	4.97	361254	6.80	152004	8.24
3M125792.D	AD02799-002	251410	5.05	263592	6.83	139042	8.26
3M125793.D	AD02775-003	416705	4.99	340564	6.83	152775	8.29
3M125794.D	AD02780-003(20X)	399734	5.01	338702	6.84	151754	8.29
3M125795.D	AD02780-006(5X)	379460	5.00	322664	6.84	135911	8.28
3M125796.D	AD02780-007(20X)	377465	4.99	324445	6.83	141636	8.27
3M125797.D	AD02780-008(10X)	389951	4.98	339013	6.82	151516	8.26
3M125798.D	AD02813-002(10X)	381248	4.98	329988	6.81	138722	8.26
3M125799.D	AD02813-004(10X)	403583	4.98	335181	6.81	144683	8.26
3M125800.D	AD02813-003(10X)	410540	4.98	335004	6.81	140583	8.26
3M125801.D	MBS67259	370525	4.98	321131	6.81	138310	8.26
3M125802.D	MBS67260	394343	4.98	344652	6.81	151393	8.26
3M125803.D	BLK	391534	4.98	330278	6.81	140287	8.26
3M125804.D	AD02775-001	410312	4.98	354296	6.81	142131	8.26
3M125805.D	AD02799-001	435748	4.98	369893	6.81	155306	8.26
3M125806.D	AD02736-001	422206	4.97	365060	6.81	167196	8.26
3M125807.D	AD02736-005	428289	4.98	370859	6.82	165475	8.26
3M125808.D	AD02736-008	454200	4.98	382413	6.81	168856	8.26
3M125809.D	AD02736-010	410606	4.98	356906	6.82	159434	8.27

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 3M125776.D Method: EPA 8260C

Analysis Date/Time: 03/01/18 18:38

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	470541	4.96	389693	6.79	166353	8.24								
Eval File Area Limit:	235270-941082		194846-779386		83176-332706									
Eval File Rt Limit:	4.46-5.46		6.29-7.29		7.74-8.74									

Data File	Sample						
3M125810.D	AD02736-004(400uL)	459258	4.98	388632	6.81	160426	8.26
3M125811.D	AD02736-007(400uL)	451314	4.98	399602	6.81	168908	8.26
3M125812.D	AD02736-009(80uL)	503251	4.98	413448	6.81	179220	8.26
3M125813.D	AD02736-006(400uL)	482926	4.98	386151	6.81	177082	8.26
3M125814.D	AD02736-011(MS)	454278	4.98	390925	6.81	173417	8.26
3M125815.D	AD02736-011(MSD)	446166	4.98	395603	6.81	175451	8.26
3M125816.D	MBS67261	487388	4.98	413512	6.81	177051	8.26
3M125817.D	AD02736-011	452804	4.98	392014	6.81	170195	8.26

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

GC/MS Volatile Data
Sample Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD02764-001
Client Id: RMW-1_02212018
Data File: 8M12807.D
Analysis Date: 03/01/18 02:32
Date Rec/Extracted: 02/22/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	**67-66-3**	**Chloroform**	**1.0**	**1.4**
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	**127-18-4**	**Tetrachloroethene**	**1.0**	**6.1**
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 457092 *Total Target Concentration* 7.5 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

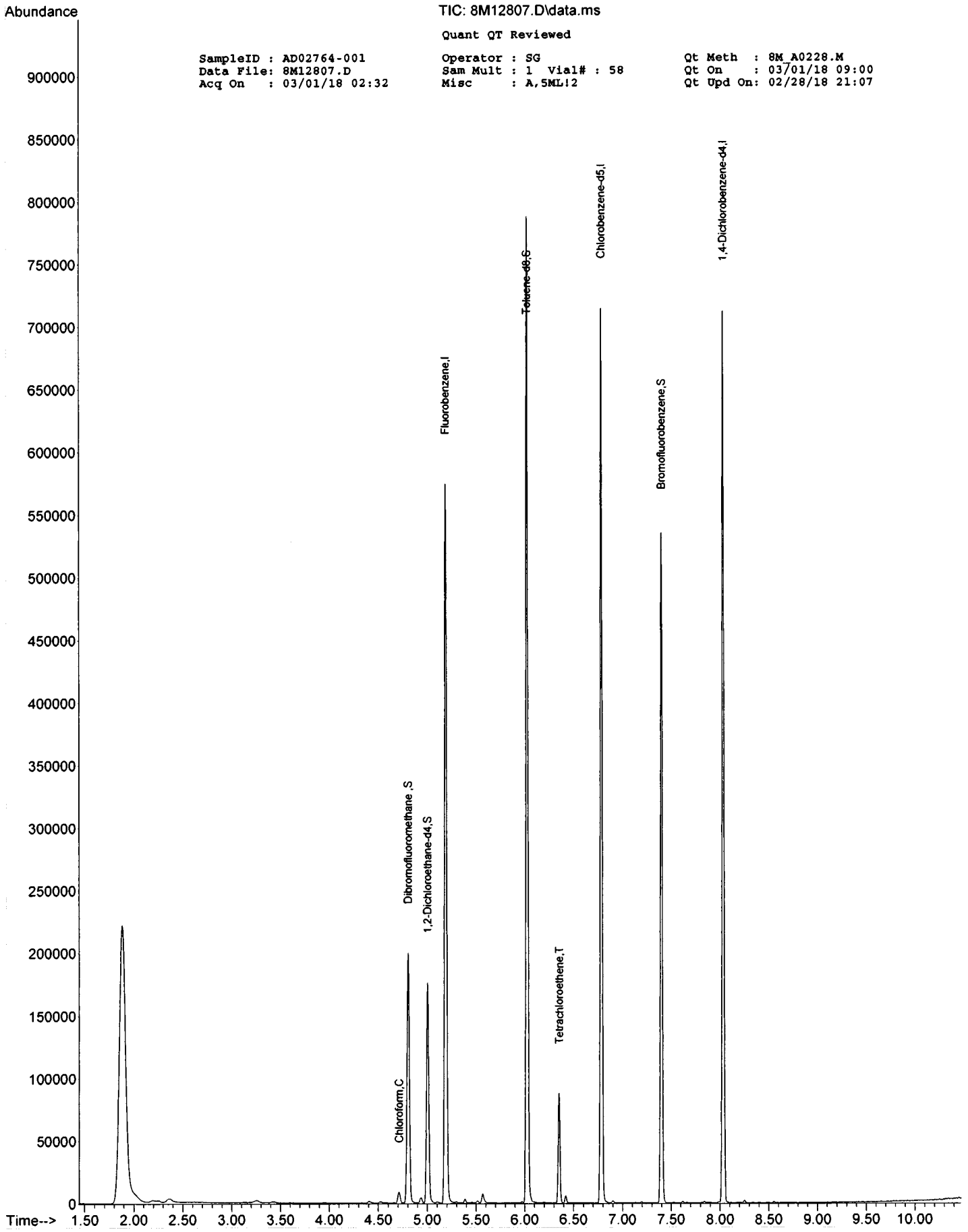
8022222 0072

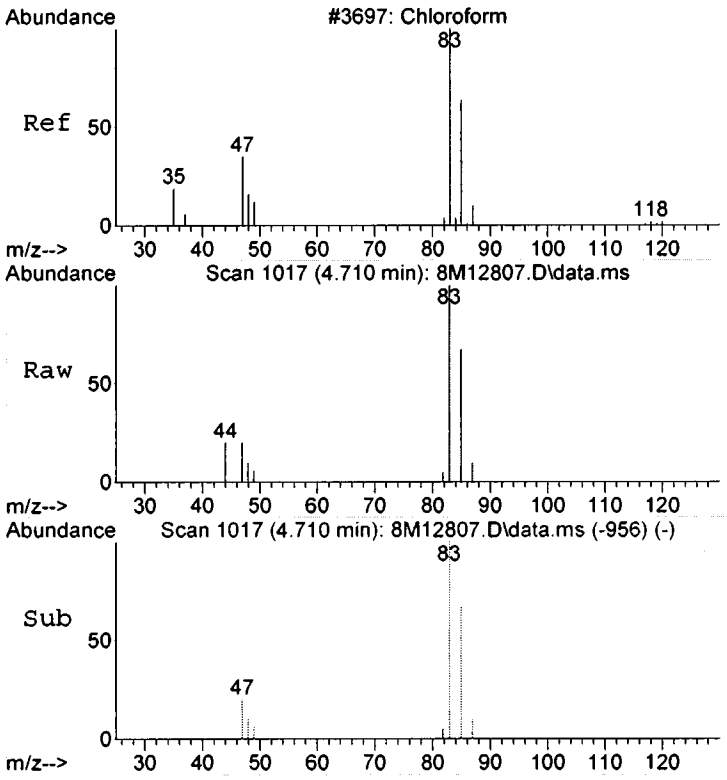
SampleID : AD02764-001 Operator : SG Qt Meth : 8M_A0228.M
Data File: 8M12807.D Sam Mult : 1 Vial# : 58 Qt On : 03/01/18 09:00
Acq On : 03/01/18 02:32 Misc : A,5ML!2 Qt Upd On: 02/28/18 21:07

Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.186	96	433860	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.784	117	334318	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.032	152	162026	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.804	111	106042	31.20	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.00%			
39) 1,2-Dichloroethane-d4	5.003	67	53811	31.35	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.50%			
66) Toluene-d8	6.022	98	416711	28.34	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.47%			
76) Bromofluorobenzene	7.398	174	131531	29.89	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.63%			
Target Compounds						Qvalue
36) Chloroform	4.710	83	6689	1.4135	ug/l	89
65) Tetrachloroethene	6.353	164	16887	6.0939	ug/l	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

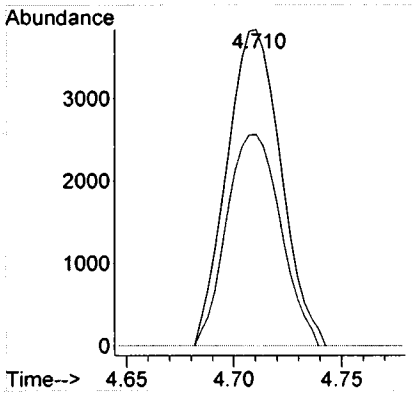

Abundance
TIC: 8M12807.D\data.ms
Quant QT Reviewed
SampleID : AD02764-001
Data File: 8M12807.D
Acq On : 03/01/18 02:32
Operator : SG
Sam Mult : 1 Vial# : 58
Misc : A,5ML!2
Qt Meth : 8M_A0228.M
Qt On : 03/01/18 09:00
Qt Upd On: 02/28/18 21:07
Chloroform,C
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Tetrachloroethene,T
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

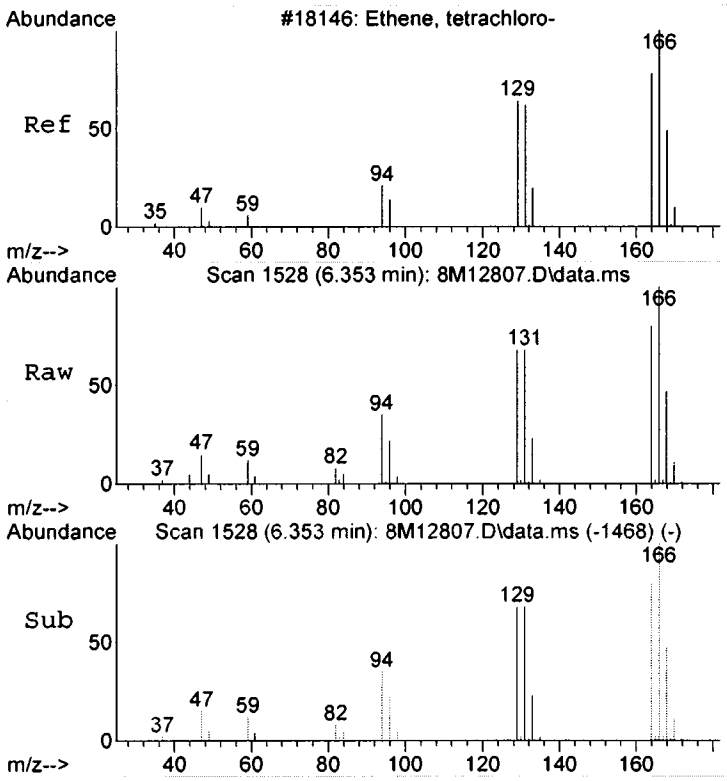


#36
Chloroform
Concen: 1.41 ug/l
RT: 4.710 min Scan# 1017
Delta R.T. -0.003 min
Lab File: 8M12807.D
Acq: 01 Mar 2018 02:32

Tgt Ion: 83 Resp: 6689

Ion	Ratio	Lower	Upper
83	100		
85	66.9	36.0	116.0

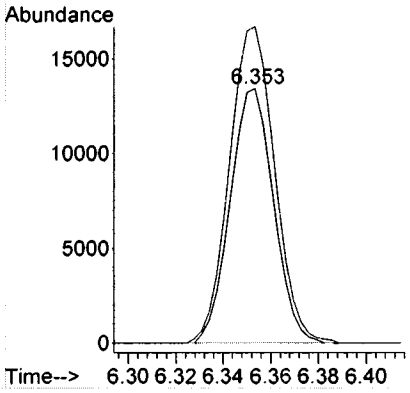




#65
Tetrachloroethene
Concen: 6.09 ug/l
RT: 6.353 min Scan# 1528
Delta R.T. -0.006 min
Lab File: 8M12807.D
Acq: 01 Mar 2018 02:32

Tgt Ion:164 Resp: 16887

Ion	Ratio	Lower	Upper
164	100		
166	124.2	61.8	201.8



Form1

ORGANICS VOLATILE REPORT

Sample Number: AD02764-002
Client Id: RMW-5_02212018
Data File: 8M12808.D
Analysis Date: 03/01/18 02:50
Date Rec/Extracted: 02/22/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 457092

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

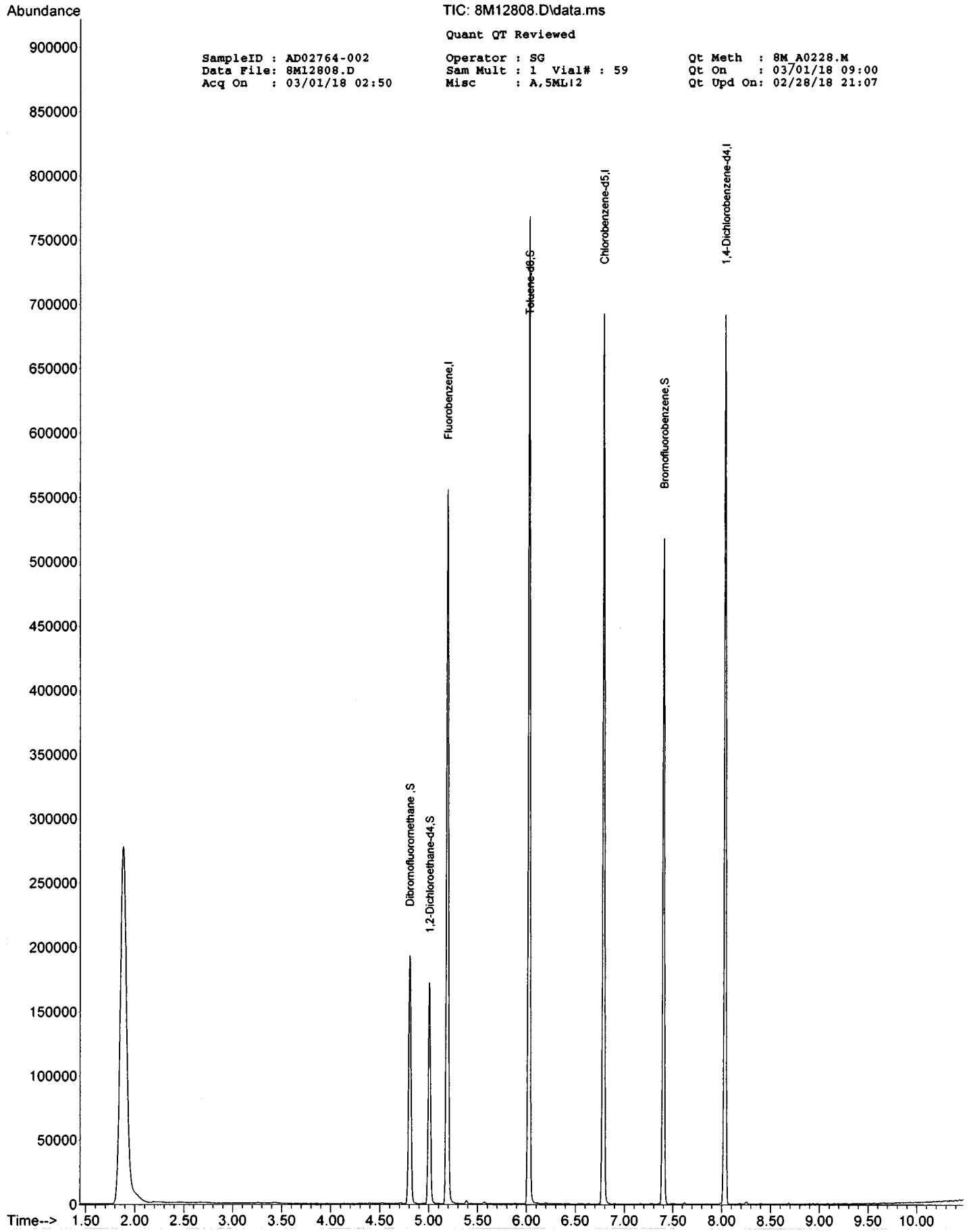
8022222 0076

SampleID : AD02764-002 Operator : SG Qt Meth : 8M_A0228.M
Data File: 8M12808.D Sam Mult : 1 Vial# : 59 Qt On : 03/01/18 09:00
Acq On : 03/01/18 02:50 Misc : A,5ML!2 Qt Upd On: 02/28/18 21:07

Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.189	96	418067	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.784	117	323352	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.032	152	157117	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.803	111	103513	31.61	ug/l	0.00
Spiked Amount 30.000			Recovery = 105.37%			
39) 1,2-Dichloroethane-d4	5.006	67	53204	32.17	ug/l	0.00
Spiked Amount 30.000			Recovery = 107.23%			
66) Toluene-d8	6.025	98	405565	28.52	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.07%			
76) Bromofluorobenzene	7.398	174	126434	29.63	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.77%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 8M12808.D\data.ms
Quant QT Reviewed
SampleID : AD02764-002
Data File: 8M12808.D
Acq On : 03/01/18 02:50
Operator : SG
Sam Mult : 1 Vial# : 59
Misc : A,5ML;2
Qt Meth : 8M_A0228.M
Qt On : 03/01/18 09:00
Qt Upd On: 02/28/18 21:07
900000
850000
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time--> 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD02764-003
Client Id: RMW-4_02212018
Data File: 3M125781.D
Analysis Date: 03/01/18 20:04
Date Rec/Extracted: 02/22/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 457092

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

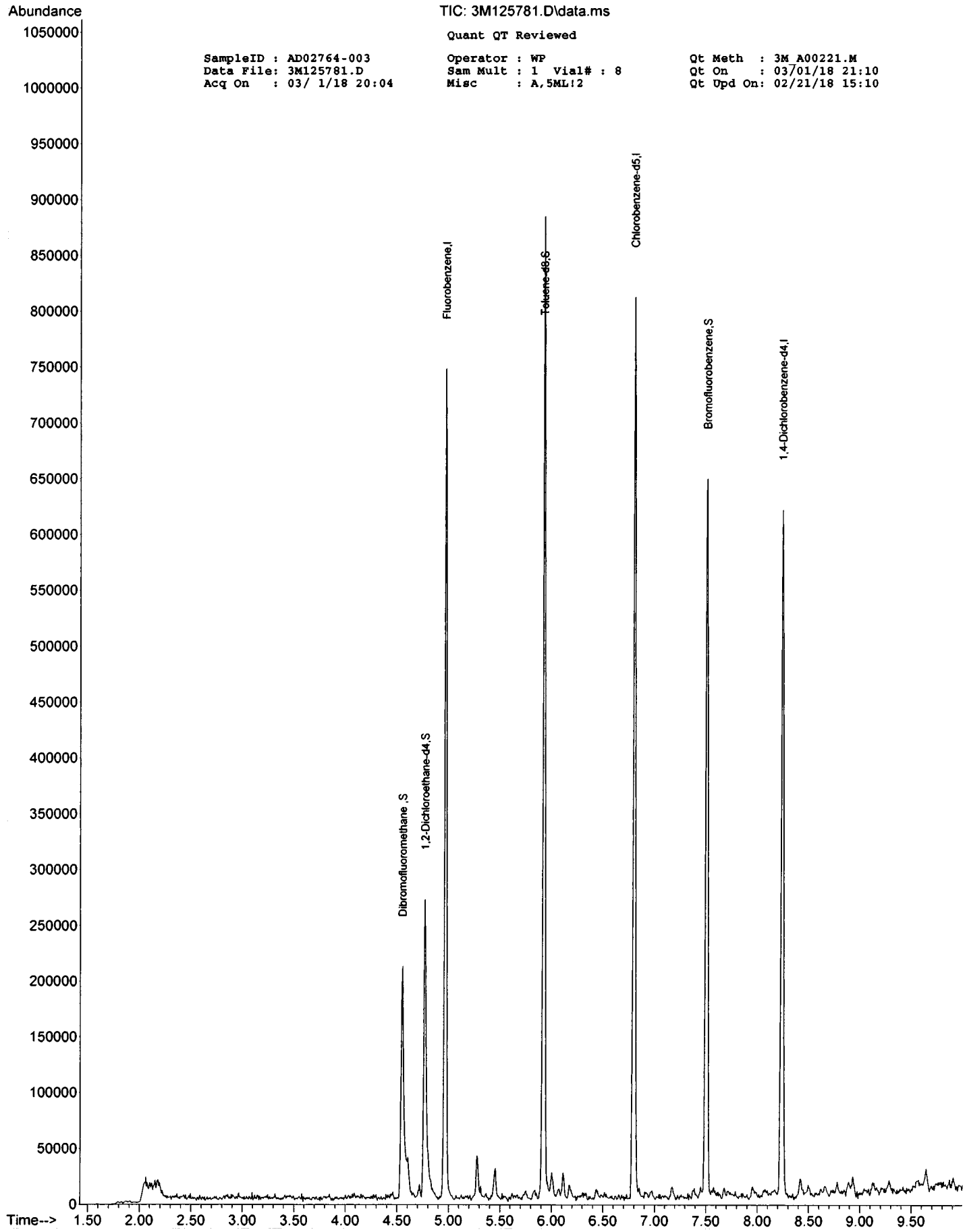
8022222 0079

SampleID : AD02764-003 Operator : WP Qt Meth : 3M_A00221.M
Data File: 3M125781.D Sam Mult : 1 Vial# : 8 Qt On : 03/01/18 21:10
Acq On : 03/ 1/18 20:04 Misc : A,5ML!2 Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-0118\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.963	96	420705	30.00	ug/l	0.02
52) Chlorobenzene-d5	6.796	117	362731	30.00	ug/l	0.02
70) 1,4-Dichlorobenzene-d4	8.237	152	155903	30.00	ug/l	0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.549	111	117547	28.64	ug/l	0.03
Spiked Amount 30.000			Recovery = 95.47%			
39) 1,2-Dichloroethane-d4	4.765	67	83556	29.06	ug/l	0.02
Spiked Amount 30.000			Recovery = 96.87%			
66) Toluene-d8	5.919	98	439403	28.33	ug/l	0.02
Spiked Amount 30.000			Recovery = 94.43%			
76) Bromofluorobenzene	7.504	174	164377	28.68	ug/l	0.03
Spiked Amount 30.000			Recovery = 95.60%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125781.D\data.ms
Quant QT Reviewed
SampleID : AD02764-003
Data File: 3M125781.D
Acq On : 03/ 1/18 20:04
Operator : WP
Sam Mult : 1 Vial# : 8
Misc : A,5ML!2
Qt Meth : 3M_A00221.M
Qt On : 03/01/18 21:10
Qt Upd On: 02/21/18 15:10
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD02764-004(MS:AD02
Client Id: RMW-4_02212018 MS
Data File: 3M125783.D
Analysis Date: 03/01/18 20:37
Date Rec/Extracted: 02/22/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	17	56-23-5	Carbon Tetrachloride	1.0	18
79-34-5	1,1,2,2-Tetrachloroethane	1.0	14	108-90-7	Chlorobenzene	1.0	16
76-13-1	1,1,2-Trichloro-1,2,2-triflu	1.0	20	75-00-3	Chloroethane	1.0	16
79-00-5	1,1,2-Trichloroethane	1.0	16	67-66-3	Chloroform	1.0	16
75-34-3	1,1-Dichloroethane	1.0	16	74-87-3	Chloromethane	1.0	12
75-35-4	1,1-Dichloroethene	1.0	16	156-59-2	cis-1,2-Dichloroethene	1.0	17
87-61-6	1,2,3-Trichlorobenzene	1.0	15	10061-01-5	cis-1,3-Dichloropropene	1.0	14
120-82-1	1,2,4-Trichlorobenzene	1.0	16	110-82-7	Cyclohexane	1.0	20
96-12-8	1,2-Dibromo-3-Chloroprop	1.0	13	124-48-1	Dibromochloromethane	1.0	15
106-93-4	1,2-Dibromoethane	1.0	15	75-71-8	Dichlorodifluoromethane	1.0	11
95-50-1	1,2-Dichlorobenzene	1.0	16	100-41-4	Ethylbenzene	1.0	17
107-06-2	1,2-Dichloroethane	0.50	16	98-82-8	Isopropylbenzene	1.0	17
78-87-5	1,2-Dichloropropane	1.0	16	79601-23-1	m&p-Xylenes	1.0	31
541-73-1	1,3-Dichlorobenzene	1.0	17	79-20-9	Methyl Acetate	1.0	15
106-46-7	1,4-Dichlorobenzene	1.0	17	108-87-2	Methylcyclohexane	1.0	21
123-91-1	1,4-Dioxane	50	840	75-09-2	Methylene Chloride	1.0	16
78-93-3	2-Butanone	1.0	15	1634-04-4	Methyl-t-butyl ether	0.50	16
591-78-6	2-Hexanone	1.0	13	95-47-6	o-Xylene	1.0	16
108-10-1	4-Methyl-2-Pentanone	1.0	13	100-42-5	Styrene	1.0	16
67-64-1	Acetone	5.0	73	127-18-4	Tetrachloroethene	1.0	16
71-43-2	Benzene	0.50	16	108-88-3	Toluene	1.0	15
74-97-5	Bromochloromethane	1.0	17	156-60-5	trans-1,2-Dichloroethene	1.0	17
75-27-4	Bromodichloromethane	1.0	16	10061-02-6	trans-1,3-Dichloropropene	1.0	15
75-25-2	Bromoform	1.0	15	79-01-6	Trichloroethene	1.0	19
74-83-9	Bromomethane	1.0	13	75-69-4	Trichlorofluoromethane	1.0	17
75-15-0	Carbon Disulfide	1.0	17	75-01-4	Vinyl Chloride	1.0	15
1330-20-7	Xylenes (Total)	1.0	47				

Worksheet #: 457092 *Total Target Concentration* 1700 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

8022222 0082

SampleID : AD02764-004(MS:AD02 Operator : WP Qt Meth : 3M_A00221.M
Data File: 3M125783.D Sam Mult : 1 Vial# : 10 Qt On : 03/01/18 21:11
Acq On : 03/ 1/18 20:37 Misc : A,5ML!2 Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-0118\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.969	96	458402	30.00	ug/l	0.03
52) Chlorobenzene-d5	6.801	117	391198	30.00	ug/l	0.03
70) 1,4-Dichlorobenzene-d4	8.243	152	165950	30.00	ug/l	0.03
System Monitoring Compounds						
37) Dibromofluoromethane	4.549	111	133782	29.92	ug/l	0.03
Spiked Amount 30.000			Recovery = 99.73%			
39) 1,2-Dichloroethane-d4	4.771	67	93538	29.85	ug/l	0.03
Spiked Amount 30.000			Recovery = 99.50%			
66) Toluene-d8	5.924	98	482622	28.85	ug/l	0.03
Spiked Amount 30.000			Recovery = 96.17%			
76) Bromofluorobenzene	7.510	174	187453	30.72	ug/l	0.04
Spiked Amount 30.000			Recovery = 102.40%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.626	51	80812	12.3884	ug/l	38
6) Dichlorodifluoromethane	1.609	85	10504	10.8297	ug/l	78
7) Chloromethane	1.759	50	26548	12.2576	ug/l	90
8) Bromomethane	2.140	94	24272	13.4764	ug/l	98
9) Vinyl Chloride	1.842	62	34537	14.6823	ug/l	96
10) Chloroethane	2.218	64	28396	16.3664	ug/l	97
11) Trichlorofluoromethane	2.428	101	79634	16.8714	ug/l	90
12) Ethyl ether	2.656	59	50606	15.5539	ug/l	77
13) Furan	2.698	39	108254	13.7520	ug/l	96
14) 1,1,2-Trichloro-1,2,2-...	2.849	101	37694	20.3429	ug/l	97
15) Methylene Chloride	3.251	84	60922	15.7642	ug/l	88
16) Acrolein	2.783	56	47539	78.9078	ug/l	87
17) Acrylonitrile	3.467	53	21406	16.0787	ug/l	100
18) Iodomethane	2.999	142	67949	17.1406	ug/l	98
19) Acetone	2.897	43	100422	73.1532	ug/l	91
20) Carbon Disulfide	3.059	76	130716	16.6607	ug/l	100
21) t-Butyl Alcohol	3.317	59	30109	70.3078	ug/l	91
22) n-Hexane	3.690	57	25627	16.6065	ug/l	76
23) Di-isopropyl-ether	3.846	45	191156	15.4836	ug/l	97
24) 1,1-Dichloroethene	2.861	61	81717	15.5571	ug/l	95
25) Methyl Acetate	3.161	43	78286	14.7070	ug/l	100
26) Methyl-t-butyl ether	3.467	73	176377	15.7353	ug/l	63
27) 1,1-Dichloroethane	3.828	63	105753	16.4166	ug/l	88
28) trans-1,2-Dichloroethene	3.479	96	55566	16.7686	ug/l	88
29) Ethyl-t-butyl ether	4.110	59	207872	15.7467	ug/l	96
30) cis-1,2-Dichloroethene	4.242	61	116118	17.2829	ug/l	91
31) Bromochloromethane	4.404	49	62277	16.8315	ug/l	98
32) 2,2-Dichloropropane	4.242	77	89177	18.3996	ug/l	95
33) Ethyl acetate	4.266	43	75466m	15.7290	ug/l	
34) 1,4-Dioxane	5.414	88	37611	842.0993	ug/l	85
35) 1,1-Dichloropropene	4.669	75	81302	16.9968	ug/l	93
36) Chloroform	4.446	83	118943	16.4607	ug/l	79
38) Cyclohexane	4.609	56	52900	20.0555	ug/l	98
40) 1,2-Dichloroethane	4.819	62	113582	15.9843	ug/l	96
41) 2-Butanone	4.248	43	27342m	14.7312	ug/l	
42) 1,1,1-Trichloroethane	4.573	97	105459	17.3948	ug/l	96
43) Carbon Tetrachloride	4.675	117	78060	18.0308	ug/l	97
44) Vinyl Acetate	3.846	43	133887	16.0707	ug/l	100
45) Bromodichloromethane	5.498	83	86171	16.3011	ug/l	91
46) Methylcyclohexane	5.317	83	44251	21.3578	ug/l	96
47) Dibromomethane	5.426	174	53898	16.9049	ug/l	96
48) 1,2-Dichloropropane	5.341	63	55190	16.1100	ug/l	94
49) Trichloroethene	5.197	130	72301	18.8163	ug/l	77
50) Benzene	4.807	78	213513	16.3640	ug/l	100
51) tert-Amyl methyl ether	4.843	73	194798	16.5948	ug/l	73
53) Iso-propylacetate	4.801	43	152456	14.2914	ug/l	98
54) Methyl methacrylate	5.366	41	81312m	13.6731	ug/l	
55) Dibromochloromethane	6.453	129	67070	15.1541	ug/l	96
57) cis-1,3-Dichloropropene	5.762	75	91080	14.2499	ug/l	97
58) trans-1,3-Dichloropropene	6.080	75	93427	14.5760	ug/l	96
59) Ethyl methacrylate	6.092	41	77711	13.2263	ug/l	66
60) 1,1,2-Trichloroethane	6.200	97	59997	15.5704	ug/l	93
61) 1,2-Dibromoethane	6.543	107	60893	14.5379	ug/l	88
62) 1,3-Dichloropropane	6.309	76	101266	15.0014	ug/l	91
63) 4-Methyl-2-Pentanone	5.834	43	66371	12.7529	ug/l	95
64) 2-Hexanone	6.321	43	45689	12.9537	ug/l	91
65) Tetrachloroethene	6.297	164	42195	16.3301	ug/l	95
67) Toluene	5.966	92	134780	14.9984	ug/l	95
68) 1,1,1,2-Tetrachloroethane	6.855	133	59765	16.1448	ug/l	71

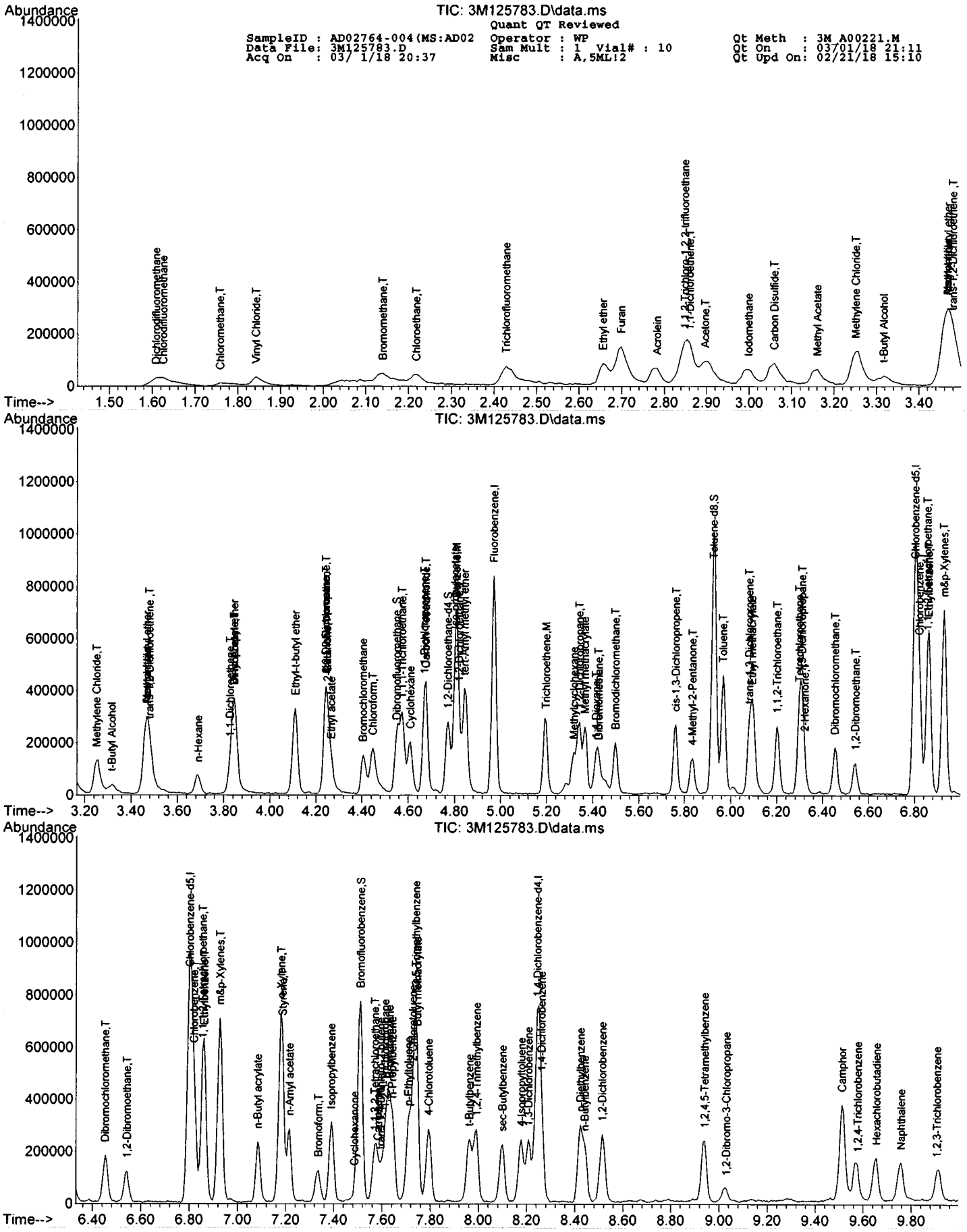
Quantitation Report (QT Reviewed)

SampleID : AD02764-004(MS:AD02 Operator : WP Qt Meth : 3M_A00221.M
Data File: 3M125783.D Sam Mult : 1 Vial# : 10 Qt On : 03/01/18 21:11
Acq On : 03/ 1/18 20:37 Misc : A,5ML!2 Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-0118\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69)	Chlorobenzene	6.819	112	154160	15.9158	ug/l	99
71)	n-Butyl acrylate	7.084	55	118085	12.8491	ug/l	93
72)	n-Amyl acetate	7.216	43	116938	14.6063	ug/l	82
73)	Bromoform	7.336	173	45938	14.5593	ug/l	88
74)	Ethylbenzene	6.861	106	49648	17.1974	ug/l	71
75)	1,1,2,2-Tetrachloroethane	7.570	83	67350	14.3371	ug/l	96
77)	Styrene	7.186	104	153857	16.3368	ug/l	95
78)	m&p-Xylenes	6.927	106	150263	31.0088	ug/l	93
79)	o-Xylene	7.180	106	78130	15.9532	ug/l	82
80)	trans-1,4-Dichloro-2-b...	7.594	53	25336	12.7776	ug/l	53
81)	1,3-Dichlorobenzene	8.207	146	90850	16.5049	ug/l	90
82)	1,4-Dichlorobenzene	8.261	146	94660	16.5225	ug/l	93
83)	1,2-Dichlorobenzene	8.513	146	94261	16.3301	ug/l	90
84)	Isopropylbenzene	7.390	105	165070	16.7904	ug/l	95
85)	Cyclohexanone	7.486	55	12459	66.7646	ug/l	95
86)	Camphene	7.582	93	21197	6.9276	ug/l	95
87)	1,2,3-Trichloropropane	7.612	75	89217	14.7441	ug/l	97
88)	2-Chlorotoluene	7.726	91	93214	15.6873	ug/l	98
89)	p-Ethyltoluene	7.708	105	172826	17.2303	ug/l	73
90)	4-Chlorotoluene	7.792	91	96040	15.2907	ug/l	88
91)	n-Propylbenzene	7.642	91	162973	16.6178	ug/l	95
92)	Bromobenzene	7.630	77	139174	14.3626	ug/l	97
93)	1,3,5-Trimethylbenzene	7.738	105	116179	18.3331	ug/l	81
94)	Butyl methacrylate	7.744	41	89705	13.2884	ug/l	95
95)	t-Butylbenzene	7.961	119	111070	16.2773	ug/l	86
96)	1,2,4-Trimethylbenzene	7.991	105	140040	16.3690	ug/l	91
97)	sec-Butylbenzene	8.099	105	126156	16.6708	ug/l	93
98)	4-Isopropyltoluene	8.177	119	113920	16.9143	ug/l	92
99)	n-Butylbenzene	8.441	91	118626	16.1839	ug/l	91
100)	p-Diethylbenzene	8.423	119	76116	16.9025	ug/l	88
101)	1,2,4,5-Tetramethylben...	8.940	119	123105	18.2099	ug/l	90
102)	1,2-Dibromo-3-Chloropr...	9.030	157	14838	12.7733	ug/l	68
103)	Camphor	9.510	95	83706	162.8390	ug/l	93
104)	Hexachlorobutadiene	9.655	225	38364	14.6582	ug/l	97
105)	1,2,4-Trichlorobenzene	9.576	180	49641	15.7382	ug/l	96
106)	1,2,3-Trichlorobenzene	9.907	180	40929	14.9700	ug/l	97
107)	Naphthalene	9.757	128	115744	15.2268	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 3M125783.D\data.ms
Quant QT Reviewed
SampleID : AD02764-004(MS:AD02
Data File: 3M125783.D
Acq On : 03/ 1/18 20:37
Operator : WP
Sam Mult : 1 Vial# : 10
Misc : A,5ML!2
Qt Meth : 3M_A00221.M
Qt On : 03701/18 21:11
Qt Upd On: 02/21/18 15:10
Abundance
Time-->
Dichlorodifluoromethane
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
TIC: 3M125783.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,T
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
TIC: 3M125783.D\data.ms
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
Chlorobenzene-d5,I
m&p-Xylenes,T
Styrene,T
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,4-Dichlorobenzene
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD02764-005(MSD:AD
Client Id: RMW-4_02212018 MSD
Data File: 3M125784.D
Analysis Date: 03/01/18 20:55
Date Rec/Extracted: 02/22/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	18	56-23-5	Carbon Tetrachloride	1.0	19
79-34-5	1,1,2,2-Tetrachloroethane	1.0	14	108-90-7	Chlorobenzene	1.0	17
76-13-1	1,1,2-Trichloro-1,2,2-triflu	1.0	22	75-00-3	Chloroethane	1.0	19
79-00-5	1,1,2-Trichloroethane	1.0	17	67-66-3	Chloroform	1.0	17
75-34-3	1,1-Dichloroethane	1.0	17	74-87-3	Chloromethane	1.0	14
75-35-4	1,1-Dichloroethene	1.0	17	156-59-2	cis-1,2-Dichloroethene	1.0	18
87-61-6	1,2,3-Trichlorobenzene	1.0	16	10061-01-5	cis-1,3-Dichloropropene	1.0	16
120-82-1	1,2,4-Trichlorobenzene	1.0	15	110-82-7	Cyclohexane	1.0	21
96-12-8	1,2-Dibromo-3-Chloroprop	1.0	12	124-48-1	Dibromochloromethane	1.0	17
106-93-4	1,2-Dibromoethane	1.0	16	75-71-8	Dichlorodifluoromethane	1.0	11
95-50-1	1,2-Dichlorobenzene	1.0	16	100-41-4	Ethylbenzene	1.0	17
107-06-2	1,2-Dichloroethane	0.50	18	98-82-8	Isopropylbenzene	1.0	17
78-87-5	1,2-Dichloropropane	1.0	17	79601-23-1	m&p-Xylenes	1.0	33
541-73-1	1,3-Dichlorobenzene	1.0	16	79-20-9	Methyl Acetate	1.0	15
106-46-7	1,4-Dichlorobenzene	1.0	16	108-87-2	Methylcyclohexane	1.0	23
123-91-1	1,4-Dioxane	50	940	75-09-2	Methylene Chloride	1.0	16
78-93-3	2-Butanone	1.0	18	1634-04-4	Methyl-t-butyl ether	0.50	16
591-78-6	2-Hexanone	1.0	15	95-47-6	o-Xylene	1.0	17
108-10-1	4-Methyl-2-Pentanone	1.0	14	100-42-5	Styrene	1.0	16
67-64-1	Acetone	5.0	80	127-18-4	Tetrachloroethene	1.0	19
71-43-2	Benzene	0.50	18	108-88-3	Toluene	1.0	15
74-97-5	Bromochloromethane	1.0	16	156-60-5	trans-1,2-Dichloroethene	1.0	19
75-27-4	Bromodichloromethane	1.0	18	10061-02-6	trans-1,3-Dichloropropene	1.0	16
75-25-2	Bromoform	1.0	15	79-01-6	Trichloroethene	1.0	19
74-83-9	Bromomethane	1.0	13	75-69-4	Trichlorofluoromethane	1.0	17
75-15-0	Carbon Disulfide	1.0	17	75-01-4	Vinyl Chloride	1.0	14
1330-20-7	Xylenes (Total)	1.0	50				

Worksheet #: 457092 *Total Target Concentration* 1900 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

SampleID : AD02764-005(MSD:AD0 Operator : WP Qt Meth : 3M_A00221.M
Data File: 3M125784.D Sam Mult : 1 Vial# : 11 Qt On : 03/01/18 21:11
Acq On : 03/ 1/18 20:55 Misc : A,5ML!2 Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-0118\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.964	96	418572	30.00	ug/l	0.02
52) Chlorobenzene-d5	6.797	117	352042	30.00	ug/l	0.02
70) 1,4-Dichlorobenzene-d4	8.238	152	158844	30.00	ug/l	0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.544	111	124869	30.58	ug/l	0.02
Spiked Amount 30.000			Recovery = 101.93%			
39) 1,2-Dichloroethane-d4	4.766	67	80249	28.05	ug/l	0.02
Spiked Amount 30.000			Recovery = 93.50%			
66) Toluene-d8	5.920	98	422994	28.10	ug/l	0.02
Spiked Amount 30.000			Recovery = 93.67%			
76) Bromofluorobenzene	7.499	174	169936	29.10	ug/l	0.02
Spiked Amount 30.000			Recovery = 97.00%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.609	51	75191	12.6235	ug/l	37
6) Dichlorodifluoromethane	1.592	85	9340	10.5459	ug/l	99
7) Chloromethane	1.759	50	28028	14.1723	ug/l	99
8) Bromomethane	2.135	94	21194	12.8649	ug/l	97
9) Vinyl Chloride	1.842	62	30101	14.0142	ug/l	84
10) Chloroethane	2.213	64	29847	18.8397	ug/l	94
11) Trichlorofluoromethane	2.429	101	71469	16.5824	ug/l	91
12) Ethyl ether	2.652	59	45310	15.2514	ug/l	72
13) Furan	2.694	39	105954	14.7406	ug/l	95
14) 1,1,2-Trichloro-1,2,2-...	2.838	101	37454	22.1368	ug/l	95
15) Methylene Chloride	3.246	84	56667	16.0585	ug/l	93
16) Acrolein	2.772	56	50690	92.1443	ug/l	89
17) Acrylonitrile	3.457	53	19661	16.1733	ug/l	99
18) Iodomethane	2.988	142	67869	18.7495	ug/l	96
19) Acetone	2.898	43	100739	80.3671	ug/l	99
20) Carbon Disulfide	3.048	76	119256	16.6464	ug/l	100
21) t-Butyl Alcohol	3.312	59	34441	88.0764	ug/l	70
22) n-Hexane	3.679	57	24071m	17.0824	ug/l	
23) Di-isopropyl-ether	3.841	45	187780	16.6575	ug/l	95
24) 1,1-Dichloroethene	2.850	61	80228	16.7270	ug/l	94
25) Methyl Acetate	3.150	43	74828	15.3951	ug/l	100
26) Methyl-t-butyl ether	3.457	73	167937	16.4080	ug/l	65
27) 1,1-Dichloroethane	3.823	63	99032	16.8361	ug/l	97
28) trans-1,2-Dichloroethene	3.475	96	56390	18.6366	ug/l	91
29) Ethyl-t-butyl ether	4.105	59	206878	17.1627	ug/l	95
30) cis-1,2-Dichloroethene	4.238	61	109623	17.8688	ug/l	78
31) Bromochloromethane	4.400	49	52830	15.6370	ug/l	92
32) 2,2-Dichloropropane	4.238	77	88520	20.0020	ug/l	97
33) Ethyl acetate	4.256	43	72058m	16.4478	ug/l	
34) 1,4-Dioxane	5.409	88	38180	936.1828	ug/l	75
35) 1,1-Dichloropropene	4.664	75	79307	18.1574	ug/l	94
36) Chloroform	4.442	83	112449	17.0428	ug/l	86
38) Cyclohexane	4.598	56	51077	21.2070	ug/l	96
40) 1,2-Dichloroethane	4.814	62	113643	17.5147	ug/l	91
41) 2-Butanone	4.244	43	30022m	17.7143	ug/l	
42) 1,1,1-Trichloroethane	4.568	97	98193	17.7375	ug/l	98
43) Carbon Tetrachloride	4.670	117	76754	19.4161	ug/l	99
44) Vinyl Acetate	3.841	43	128942	16.9500	ug/l	100
45) Bromodichloromethane	5.493	83	87949	18.2206	ug/l	99
46) Methylcyclohexane	5.313	83	43756	23.1285	ug/l	94
47) Dibromomethane	5.415	174	54832	18.8343	ug/l	88
48) 1,2-Dichloropropane	5.337	63	54031	17.2724	ug/l	92
49) Trichloroethene	5.187	130	67427	19.2177	ug/l	81
50) Benzene	4.802	78	209188	17.5581	ug/l	100
51) tert-Amyl methyl ether	4.838	73	186459	17.3960	ug/l	74
53) Iso-propylacetate	4.796	43	148212	15.4389	ug/l	98
54) Methyl methacrylate	5.361	41	80550m	15.0515	ug/l	
55) Dibromochloromethane	6.448	129	65751	16.5084	ug/l	94
57) cis-1,3-Dichloropropene	5.751	75	90836	15.7924	ug/l	95
58) trans-1,3-Dichloropropene	6.076	75	93569	16.2219	ug/l	97
59) Ethyl methacrylate	6.088	41	86063	16.2770	ug/l	78
60) 1,1,2-Trichloroethane	6.196	97	60287	17.3858	ug/l	92
61) 1,2-Dibromoethane	6.532	107	58540	15.5307	ug/l	97
62) 1,3-Dichloropropane	6.298	76	97324	16.0211	ug/l	96
63) 4-Methyl-2-Pentanone	5.829	43	67256	14.3603	ug/l	96
64) 2-Hexanone	6.310	43	46301	14.5873	ug/l	90
65) Tetrachloroethene	6.292	164	43917	18.8870	ug/l	94
67) Toluene	5.962	92	124962	15.4525	ug/l	88
68) 1,1,1,2-Tetrachloroethane	6.851	133	57326	17.2083	ug/l	81

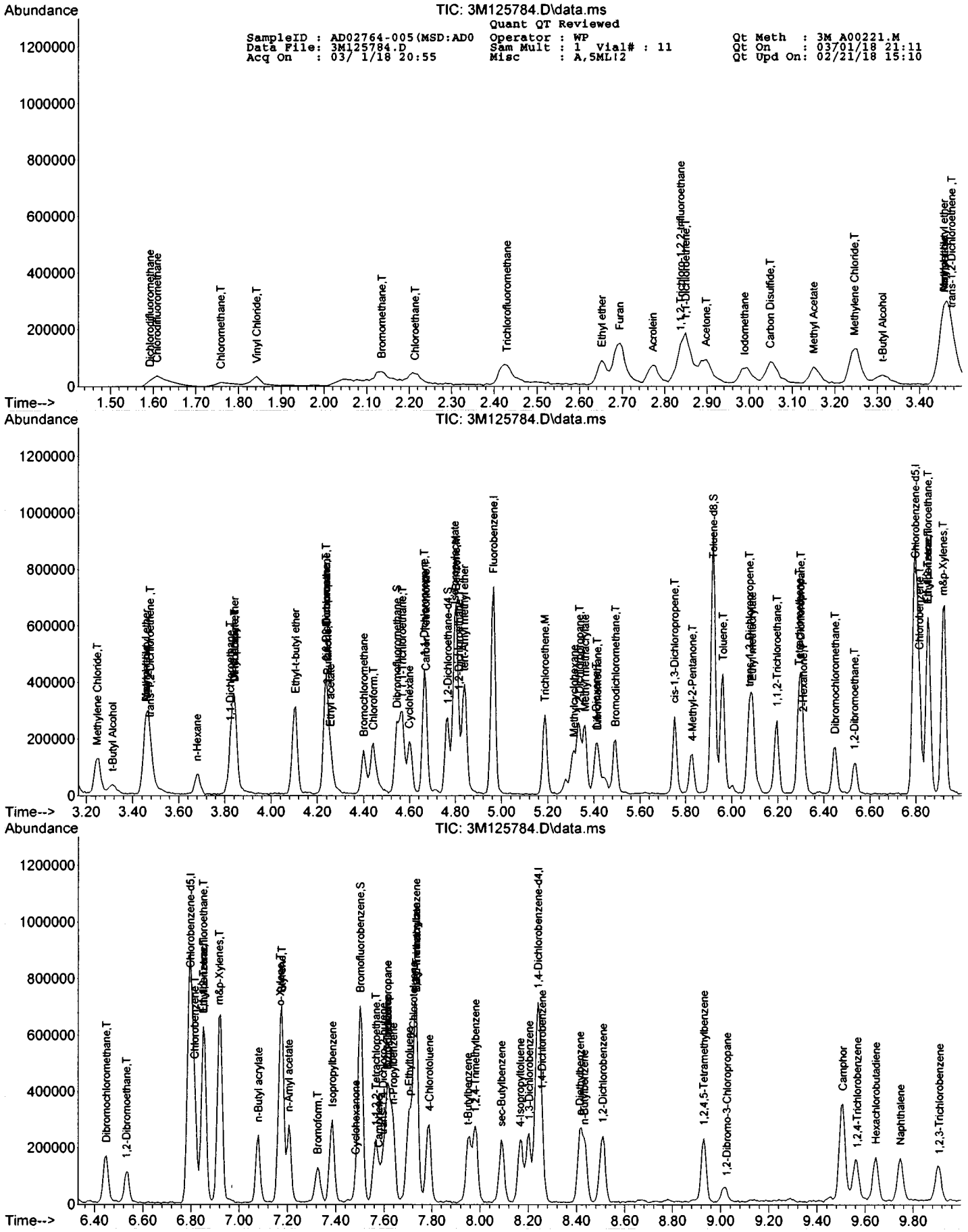
Quantitation Report (QT Reviewed)

SampleID : AD02764-005(MSD:AD0 Operator : WP Qt Meth : 3M_A00221.M
Data File: 3M125784.D Sam Mult : 1 Vial# : 11 Qt On : 03/01/18 21:11
Acq On : 03/ 1/18 20:55 Misc : A,5ML!2 Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-0118\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69)	Chlorobenzene	6.815	112	151830	17.4187	ug/l	98
71)	n-Butyl acrylate	7.079	55	115160	13.0914	ug/l	97
72)	n-Amyl acetate	7.205	43	116167	15.1591	ug/l	86
73)	Bromoform	7.325	173	44077	14.5944	ug/l	79
74)	Ethylbenzene	6.851	106	46800	16.9361	ug/l	65
75)	1,1,2,2-Tetrachloroethane	7.565	83	63109	14.0353	ug/l	97
77)	Styrene	7.175	104	147629	16.3768	ug/l	98
78)	m&p-Xylenes	6.917	106	151634	32.6916	ug/l	84
79)	o-Xylene	7.169	106	81245	17.3314	ug/l	62
80)	trans-1,4-Dichloro-2-b...	7.595	53	23302	12.2775	ug/l	55
81)	1,3-Dichlorobenzene	8.202	146	85228	16.1762	ug/l	91
82)	1,4-Dichlorobenzene	8.256	146	89628	16.3440	ug/l	96
83)	1,2-Dichlorobenzene	8.509	146	89573	16.2121	ug/l	90
84)	Isopropylbenzene	7.385	105	156569	16.6381	ug/l	94
85)	Cyclohexanone	7.481	55	12602	70.5519	ug/l	88
86)	Camphene	7.577	93	17026	5.8134	ug/l	99
87)	1,2,3-Trichloropropane	7.613	75	85304	14.7281	ug/l	96
88)	2-Chlorotoluene	7.722	91	95195	16.7374	ug/l	94
89)	p-Ethyltoluene	7.704	105	153877	16.0274	ug/l	77
90)	4-Chlorotoluene	7.788	91	94920	15.7884	ug/l	93
91)	n-Propylbenzene	7.638	91	152222	16.2159	ug/l	94
92)	Bromobenzene	7.613	77	136400	14.7060	ug/l	97
93)	1,3,5-Trimethylbenzene	7.734	105	103496	17.0623	ug/l	81
94)	Butyl methacrylate	7.734	41	88801	13.7430	ug/l	91
95)	t-Butylbenzene	7.950	119	110356	16.8962	ug/l	86
96)	1,2,4-Trimethylbenzene	7.980	105	137382	16.7767	ug/l	91
97)	sec-Butylbenzene	8.088	105	123021	16.9838	ug/l	92
98)	4-Isopropyltoluene	8.166	119	115176	17.8658	ug/l	94
99)	n-Butylbenzene	8.430	91	118314	16.8634	ug/l	87
100)	p-Diethylbenzene	8.412	119	71871	16.6738	ug/l	94
101)	1,2,4,5-Tetramethylben...	8.929	119	113324	17.5130	ug/l	93
102)	1,2-Dibromo-3-Chloropr...	9.025	157	13599	12.2300	ug/l	77
103)	Camphor	9.506	95	82796	168.2989	ug/l	94
104)	Hexachlorobutadiene	9.644	225	36652	14.6305	ug/l	95
105)	1,2,4-Trichlorobenzene	9.566	180	46403	15.3671	ug/l	97
106)	1,2,3-Trichlorobenzene	9.908	180	42759	16.3390	ug/l	94
107)	Naphthalene	9.746	128	117184	16.1059	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125784.D\data.ms
Quant QT Reviewed
SampleID : AD02764-005(MSD:AD0
Data File: 3M125784.D
Acq On : 03/ 1/18 20:55
Operator : WP
Sam Mult : 1 Vial# : 11
Misc : A,5ML;2
Qt Meth : 3M_A00221.M
Qt On : 03701/18 21:11
Qt Upd On: 02/21/18 15:10
Time-->
Abundance
TIC: 3M125784.D\data.ms
Time-->
Abundance
TIC: 3M125784.D\data.ms
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD02764-006
Client Id: DUP
Data File: 8M12809.D
Analysis Date: 03/01/18 03:08
Date Rec/Extracted: 02/22/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 457092

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

8022222 0090

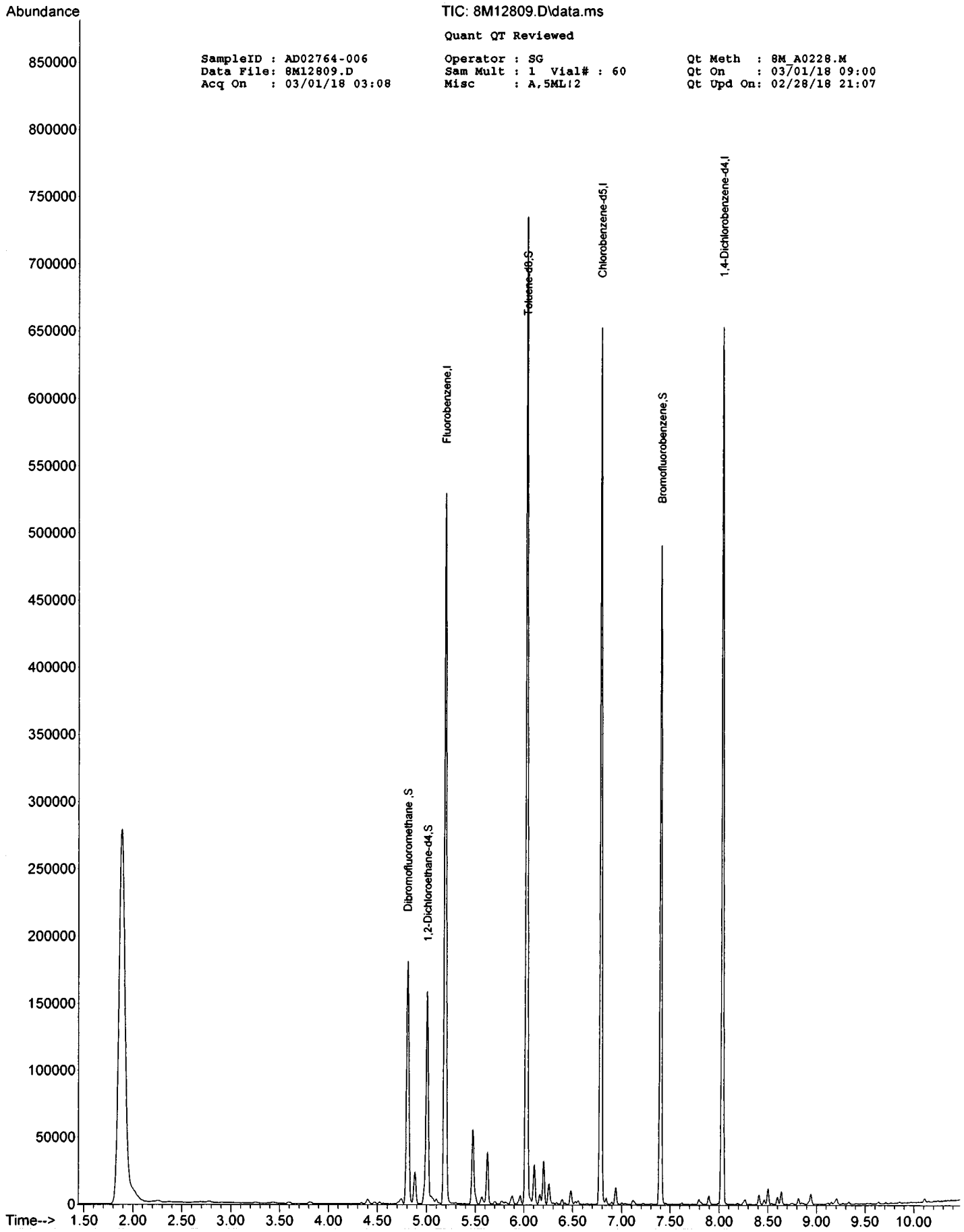
SampleID : AD02764-006 Operator : SG Qt Meth : 8M_A0226.M
Data File: 8M12809.D Sam Mult : 1 Vial# : 60 Qt On : 03/01/18 09:00
Acq On : 03/01/18 03:08 Misc : A,5ML!2 Qt Upd On: 02/28/18 21:07

Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.189	96	398817	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.784	117	305740	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.032	152	149419	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.804	111	96879	31.01	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.37%			
39) 1,2-Dichloroethane-d4	5.006	67	49035	31.08	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.60%			
66) Toluene-d8	6.025	98	386581	28.75	ug/l	0.00
Spiked Amount 30.000			Recovery = 95.83%			
76) Bromofluorobenzene	7.398	174	119293	29.39	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.97%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed




Abundance
TIC: 8M12809.D\data.ms
Quant QT Reviewed
SampleID : AD02764-006
Data File: 8M12809.D
Acq On : 03/01/18 03:08
Operator : SG
Sam Mult : 1 Vial# : 60
Misc : A,5ML!2
Qt Meth : 8M_A0228.M
Qt On : 03/01/18 09:00
Qt Upd On: 02/28/18 21:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD02764-007
Client Id: FB_02212018
Data File: 8M12802.D
Analysis Date: 03/01/18 01:03
Date Rec/Extracted: 02/22/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 457092

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

8022222 0093

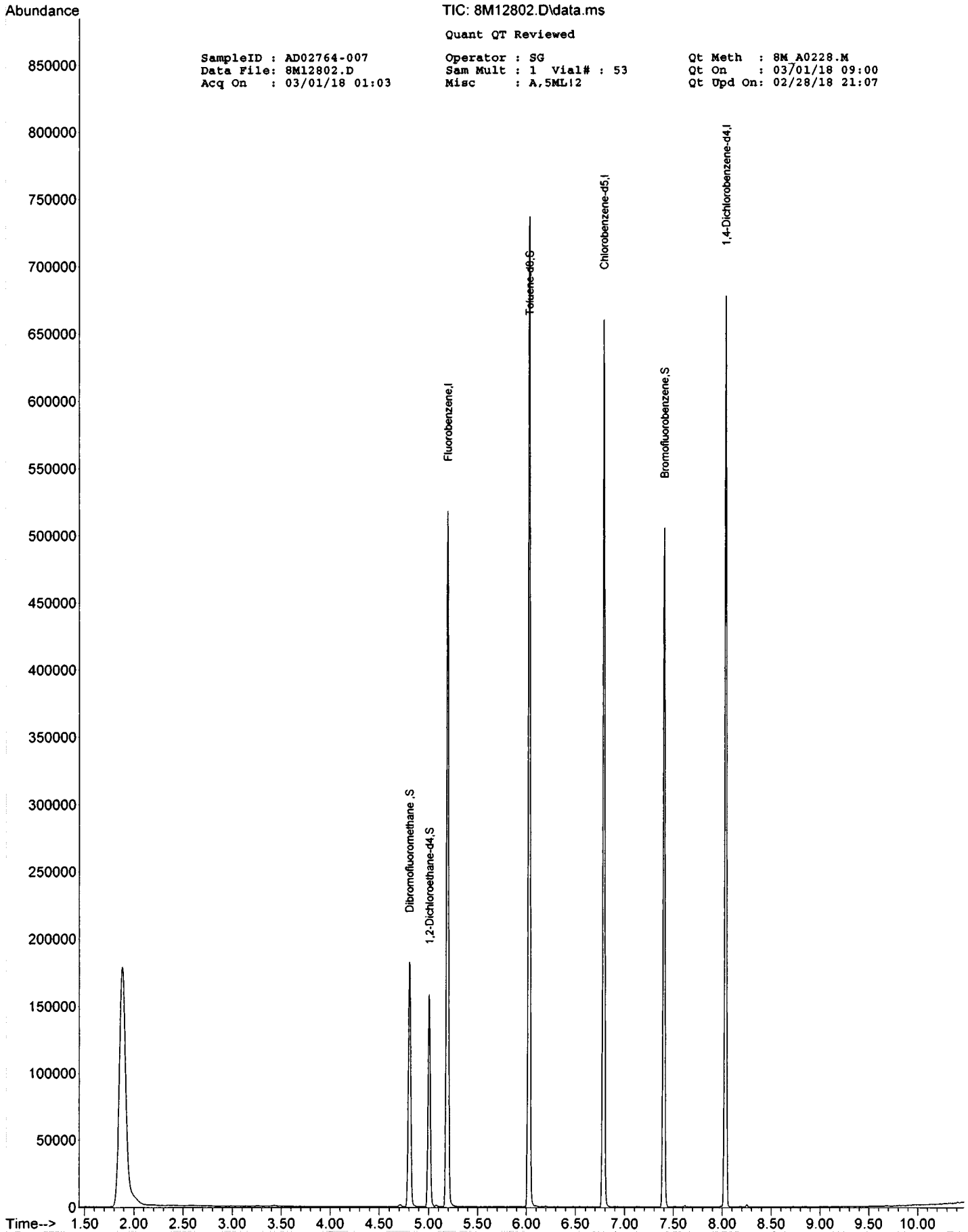
SampleID : AD02764-007 Operator : SG Qt Meth : 8M_A0228.M
Data File: 8M12802.D Sam Mult : 1 Vial# : 53 Qt On : 03/01/18 09:00
Acq On : 03/01/18 01:03 Misc : A,5ML!2 Qt Upd On: 02/28/18 21:07

Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.189	96	397377	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.784	117	312948	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.032	152	153604	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.804	111	97200	31.22	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.07%			
39) 1,2-Dichloroethane-d4	5.006	67	49024	31.18	ug/l	0.00
Spiked Amount 30.000			Recovery = 103.93%			
66) Toluene-d8	6.025	98	392020	28.48	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.93%			
76) Bromofluorobenzene	7.398	174	124207	29.77	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.23%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed




Abundance
TIC: 8M12802.D\data.ms
Quant QT Reviewed
SampleID : AD02764-007
Data File: 8M12802.D
Acq On : 03/01/18 01:03
Operator : SG
Sam Mult : 1 Vial# : 53
Misc : A,5ML;2
Qt Meth : 8M_A0228.M
Qt On : 03/01/18 09:00
Qt Upd On: 02/28/18 21:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD02764-008
Client Id: TB
Data File: 8M12803.D
Analysis Date: 03/01/18 01:21
Date Rec/Extracted: 02/22/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 457092

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

8022222 0096

SampleID : AD02764-008 Operator : SG Qt Meth : 8M_A0228.M
Data File: 8M12803.D Sam Mult : 1 Vial# : 54 Qt On : 03/01/18 09:00
Acq On : 03/01/18 01:21 Misc : A,5ML!2 Qt Upd On: 02/28/18 21:07

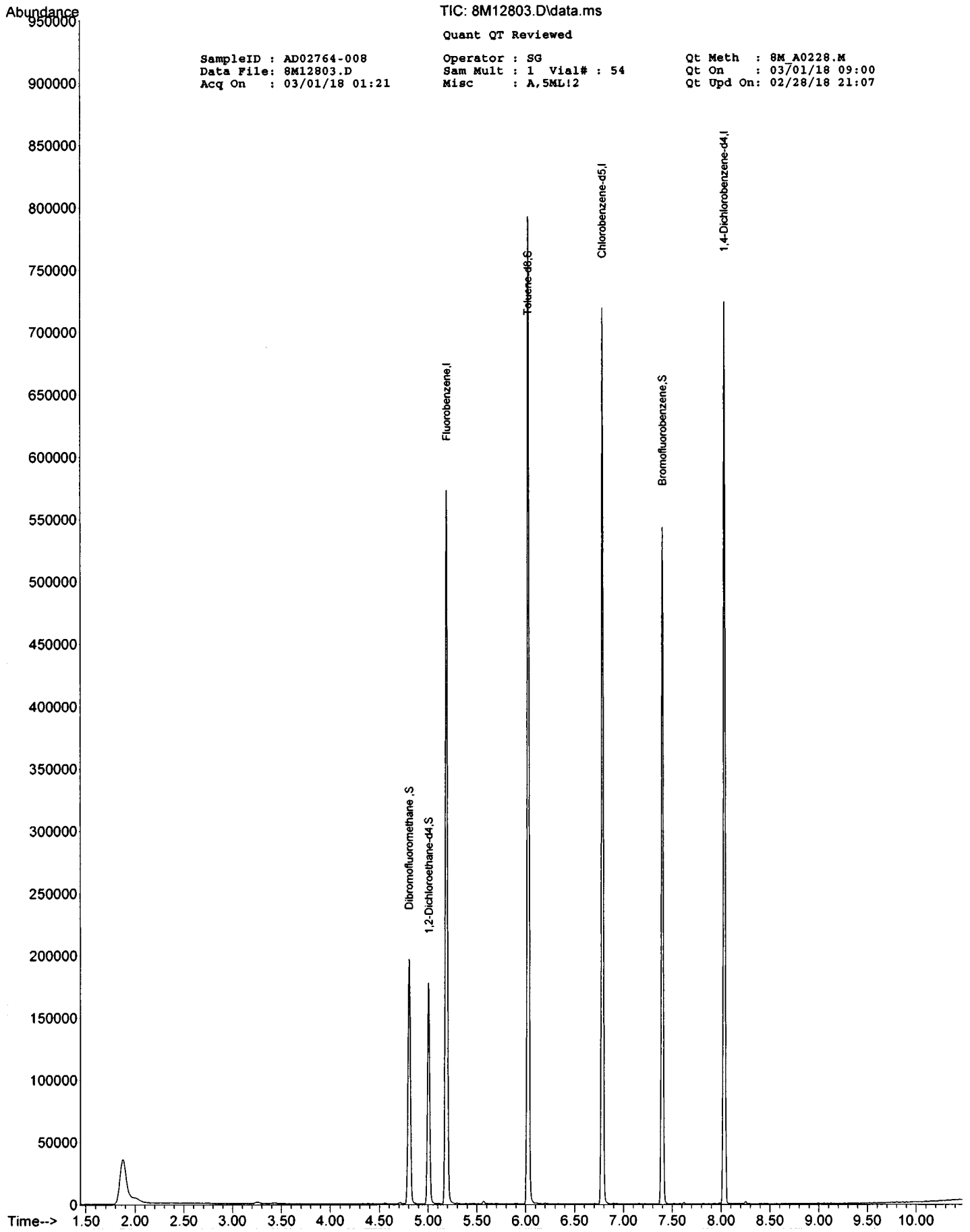
Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.189	96	433219	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.784	117	335371	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.032	152	164077	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.803	111	103945	30.63	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.10%			
39) 1,2-Dichloroethane-d4	5.006	67	54609	31.86	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.20%			
66) Toluene-d8	6.022	98	419434	28.44	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.80%			
76) Bromofluorobenzene	7.398	174	132235	29.67	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.90%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed




Abundance
TIC: 8M12803.D\data.ms
Quant QT Reviewed
SampleID : AD02764-008
Data File: 8M12803.D
Acq On : 03/01/18 01:21
Operator : SG
Sam Mult : 1 Vial# : 54
Misc : A,5ML!2
Qt Meth : 8M_A0228.M
Qt On : 03/01/18 09:00
Qt Upd On: 02/28/18 21:07
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

GC/MS Volatile Data
Standards Data

8022222 0099

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3M125275.D	CAL @ 20 PPB	02/21/18 10:12	2	3M125283.D	CAL @ 5 PPB	02/21/18 12:25
3	3M125284.D	CAL @ 10 PPB	02/21/18 12:42	4	3M125273.D	CAL @ 50 PPB	02/21/18 09:38
5	3M125271.D	CAL @ 100 PPB	02/21/18 09:05	6	3M125269.D	CAL @ 250 PPB	02/21/18 08:31
7	3M125267.D	CAL @ 500 PPB	02/21/18 07:58	8	3M125282.D	CAL @ 1 PPB	02/21/18 12:09
9	3M125281.D	CAL @ 0.5 PPB	02/21/18 11:52				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.4285	0.3869	0.4420	0.4316	-----	-----	-----	0.4453	-----	0.427	1.59	1.00	1.00	5.5	0.10	20.00	5.00	10.00	50.00				1.00	
Dichlorodifluorometha	1	0	Avg	0.0612	0.0669	0.0706	0.0655	0.0647	0.0706	0.0722	0.0358	-----	0.0635	1.58	1.00	1.00	19	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloromethane	1	0	Avg	0.1338	0.1482	0.1503	0.1436	0.1490	0.1558	0.1513	0.1016	-----	0.142	1.74	1.00	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromomethane	1	0	Qua	0.1021	0.0896	0.1137	0.1100	0.0885	-----	-----	0.1557	-----	0.110	2.11	0.986	0.998	22	0.10 a	20.00	5.00	10.00	50.00	100.0			1.00	
Vinyl Chloride	1	0	Avg	0.1391	0.1505	0.1797	0.1528	0.1587	0.1674	0.1704	0.1125	-----	0.154	1.83	1.00	1.00	14	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroethane	1	0	Avg	0.1164	0.1237	0.1427	0.1257	0.1142	0.1020	0.0728	0.1107	-----	0.114	2.19	0.964	1.00	18	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichlorofluoromethan	1	0	Avg	0.2740	0.2512	0.3455	0.3147	0.3276	0.3456	0.3167	0.2956	-----	0.309	2.40	0.998	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl ether	1	0	Avg	0.2146	0.2037	0.2273	0.2219	0.2219	0.2209	0.2075	0.1852	-----	0.213	2.63	0.999	1.00	6.4	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Furan	1	0	Avg	0.4666	0.4441	0.5309	0.5116	0.5301	0.5041	0.4720	0.6616	-----	0.515	2.67	0.999	1.00	13	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.1204	0.1107	0.1302	0.1218	0.1349	0.1402	0.1257	0.0858	-----	0.121	2.81	0.997	0.999	14	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methylene Chloride	1	0	Avg	0.2305	0.2030	0.2712	0.2513	0.2366	0.2454	0.2252	0.3596	-----	0.253	3.22	0.998	1.00	19	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acrolein	1	0	Avg	0.0408	0.0280	0.0371	0.0434	0.0438	0.0469	0.0425	0.0325	-----	0.0394	2.75	0.998	0.999	16		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Acrylonitrile	1	0	Avg	0.0855	0.0833	0.0984	0.0997	0.0901	0.0949	0.0856	0.0590	-----	0.0871	3.43	0.997	1.00	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iodomethane	1	0	Avg	0.2487	0.2123	0.2695	0.2719	0.2643	0.2816	0.2735	0.2534	-----	0.259	2.96	1.00	1.00	8.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acetone	1	0	Avg	0.0847	0.0802	0.1000	0.0852	0.0878	0.0926	0.0846	0.1032	-----	0.0898	2.87	0.998	1.00	9.0	0.10 a	100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Carbon Disulfide	1	0	Avg	0.4904	0.4403	0.4941	0.5404	0.5747	0.5969	0.5603	0.4103	-----	0.513	3.02	0.999	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butyl Alcohol	1	0	Avg	0.0256	0.0286	0.0270	0.0291	0.0285	0.0309	0.0295	0.0247	-----	0.0280	3.28	0.999	1.00	7.4		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
n-Hexane	1	0	Avg	0.0931	0.0782	0.1008	0.1055	0.1035	0.1041	0.0993	0.1232	-----	0.101	3.65	0.999	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Di-isopropyl-ether	1	0	Avg	0.7727	0.7347	0.8453	0.8288	0.8124	0.7967	0.6954	0.9774	-----	0.808	3.81	0.995	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethene	1	0	Avg	0.3282	0.3026	0.3474	0.3407	0.3532	0.3483	0.3234	0.4060	-----	0.344	2.83	0.999	1.00	8.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl Acetate	1	0	Avg	0.3126	0.3580	0.3884	0.3433	0.3404	0.3468	0.3262	0.3707	-----	0.348	3.13	0.999	1.00	6.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl-t-butyl ether	1	0	Avg	0.6819	0.6773	0.7811	0.7363	0.7115	0.6854	0.5889	0.8949	0.8445	0.734	3.43	0.994	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
1,1-Dichloroethane	1	0	Avg	0.3919	0.3925	0.4368	0.4245	0.4244	0.4227	0.3819	0.4976	-----	0.422	3.80	0.997	1.00	8.7	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,2-Dichloroethe	1	0	Avg	0.2083	0.2125	0.2250	0.2271	0.2245	0.2208	0.1953	0.2210	-----	0.217	3.44	0.996	1.00	5.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl-t-butyl ether	1	0	Avg	0.8205	0.8234	0.9343	0.8870	0.8626	0.8431	0.7212	1.0191	-----	0.864	4.08	0.994	1.00	10	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,2-Dichloroethene	1	0	Avg	0.4193	0.4028	0.4614	0.4591	0.4530	0.4484	0.3942	0.4790	-----	0.440	4.21	0.996	1.00	6.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromochloromethane	1	0	Avg	0.2036	0.2596	0.2420	0.2766	0.2124	0.2773	0.2606	0.2047	-----	0.242	4.37	0.997	0.997	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2,2-Dichloropropane	1	0	Avg	0.3270	0.2594	0.3019	0.3616	0.3508	0.3459	0.3042	0.2864	-----	0.317	4.21	0.996	1.00	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl acetate	1	0	Avg	0.2831	0.2929	0.2889	0.3177	0.3293	0.3096	0.2942	0.3960	-----	0.314	4.23	0.999	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dioxane	1	0	Avg	0.0024	0.0030	0.0029	0.0031	0.0028	0.0028	0.0025	0.0035	-----	0.00292	5.38	0.996	1.00	12		1000.	250.0	500.0	2500.	5000.	1250	2500	50.00	
1,1-Dichloropropene	1	0	Avg	0.2906	0.3027	0.3259	0.3152	0.3135	0.2952	0.2538	0.4071	-----	0.313	4.64	0.994	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroform	1	0	Avg	0.4548	0.4280	0.5155	0.4871	0.4853	0.4850	0.4343	0.4928	-----	0.473	4.42	0.997	1.00	6.5	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromofluoromethan	1	0	Avg	0.3060	0.2788	0.3021	0.3034	0.2975	0.2942	0.2882	0.2876	0.2755	0.293	4.52	-1	-1	3.7		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.1605	0.1637	0.1827	0.1691	0.1815	0.1791	0.1629	0.1811	-----	0.173	4.58	0.998	1.00	5.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloroethane-d4	1	0	Avg	0.2119	0.2127	0.2059	0.2023	0.1939	0.2048	0.1929	0.2107	0.2101	0.205	4.74	-1	-1	3.6		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.4473	0.4942	0.5541	0.4818	0.4496	0.4156	0.3375	0.5536	0.4512	0.465	4.79	0.988	1.00	14	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
2-Butanone	1	0	Avg	0.1088	0.1292	0.1508	0.1144	0.1372	0.1284	0.1048	0.0978	-----	0.121	4.22	0.988	0.999	15	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1-Trichloroethane	1	0	Avg	0.3779	0.3648	0.4299	0.4033	0.4046	0.4083	0.3715	0.4135	-----	0.397	4.55	0.998	1.00	5.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Carbon Tetrachloride	1	0	Avg	0.2776	0.2466	0.2944	0.3012	0.2990	0.2977	0.2599	0.2899	-----	0.283	4.65	0.995	1.00	7.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Acetate	1	0	Avg	0.4908	0.4953	0.5645	0.5826	0.5641	0.5566	0.4882	0.6194	-----	0.545	3.81	0.995	1.00	8.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromodichloromethan	1	0	Avg	0.3302	0.2839	0.3688	0.3734	0.3783	0.3866	0.3516	0.2946	-----	0.346	5.47	0.998	1.00	11	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Avg Rsd: 11.4

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note:

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

8022222 0100

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_3

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	3M125275.D	CAL @ 20 PPB	02/21/18 10:12	2	3M125283.D	CAL @ 5 PPB	02/21/18 12:25
3	3M125284.D	CAL @ 10 PPB	02/21/18 12:42	4	3M125273.D	CAL @ 50 PPB	02/21/18 09:38
5	3M125271.D	CAL @ 100 PPB	02/21/18 09:05	6	3M125269.D	CAL @ 250 PPB	02/21/18 08:31
7	3M125267.D	CAL @ 500 PPB	02/21/18 07:58	8	3M125282.D	CAL @ 1 PPB	02/21/18 12:09
9	3M125281.D	CAL @ 0.5 PPB	02/21/18 11:52				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.1219	0.1161	0.1394	0.1280	0.1369	0.1365	0.1247	0.1809	-----	0.136	5.29	0.998	1.00	15	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromomethane	1	0	Avg	0.1987	0.2032	0.2250	0.2157	0.2050	0.1969	0.1737	0.2506	-----	0.209	5.39	0.996	1.00	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloropropane	1	0	Avg	0.2137	0.2090	0.2299	0.2298	0.2273	0.2261	0.2021	0.2554	-----	0.224	5.31	0.997	1.00	7.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichloroethene	1	0	Avg	0.2361	0.2502	0.2680	0.2590	0.2623	0.2475	0.2160	0.2722	-----	0.251	5.16	0.995	1.00	7.4	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Benzene	1	0	Avg	0.7975	0.8399	0.8893	0.8532	0.8277	0.7415	0.6016	1.0269	1.1071	0.854	4.78	0.987	1.00	17	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
tert-Amyl methyl ether	1	0	Avg	0.7509	0.7133	0.8113	0.7886	0.7624	0.7098	0.5886	1.0205	-----	0.768	4.81	0.990	1.00	16		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iso-propylacetate	1	0	Avg	0.7821	0.7925	0.8362	0.8206	0.8212	0.8037	0.6598	1.0282	-----	0.818	4.78	0.990	1.00	12	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl methacrylate	1	0	Avg	0.4455	0.4095	0.4507	0.4753	0.4709	0.4761	0.4383	0.4817	-----	0.456	5.34	0.998	1.00	5.4	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromochloromethan	1	0	Avg	0.3337	0.2937	0.3526	0.3860	0.3904	0.3913	0.3434	0.2239	-----	0.339	6.42	0.996	1.00	17	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chloroethylvinylethe	1	0	Avg	0.1884	0.2010	0.2318	0.2100	0.2239	0.2262	0.2105	0.2636	-----	0.219	5.62	0.999	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,3-Dichloropropen	1	0	Avg	0.4674	0.4235	0.4654	0.5317	0.5566	0.5553	0.4916	0.4293	-----	0.490	5.73	0.996	1.00	11	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,3-Dichloroprop	1	0	Avg	0.4926	0.4300	0.4968	0.5332	0.5424	0.5415	0.4579	0.4376	-----	0.492	6.05	0.993	1.00	9.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl methacrylate	1	0	Avg	0.4099	0.4313	0.4658	0.4482	0.4585	0.4573	0.4049	0.5283	-----	0.451	6.06	0.996	1.00	8.6	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloroethane	1	0	Avg	0.2779	0.3101	0.2839	0.2872	0.2937	0.2895	0.2557	0.3656	-----	0.296	6.17	0.996	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromoethane	1	0	Avg	0.2890	0.3357	0.2989	0.3065	0.3232	0.3289	0.2920	0.3951	-----	0.321	6.51	0.996	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.4980	0.5364	0.5107	0.5176	0.5095	0.4861	0.4068	0.6760	-----	0.518	6.27	0.991	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Methyl-2-Pentanone	1	0	Avg	0.3758	0.3496	0.3861	0.3779	0.3848	0.4039	0.3704	0.5440	-----	0.399	5.80	0.998	1.00	15	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Hexanone	1	0	Avg	0.2433	0.2673	0.2780	0.2640	0.2631	0.2762	0.2463	0.3254	-----	0.270	6.29	0.997	0.999	9.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Tetrachloroethene	1	0	Avg	0.1954	0.1716	0.2306	0.2001	0.1998	0.1849	0.1521	0.2504	-----	0.198	6.27	0.989	1.00	16	0.20 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Toluene-d8	1	0	Avg	1.2821	1.3065	1.2346	1.2353	1.2787	1.3282	1.3248	1.2644	1.2900	1.28	5.89	-1	-1	2.7		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.6475	0.6455	0.7335	0.6578	0.6691	0.6428	0.5584	0.9580	-----	0.689	5.94	0.995	1.00	17	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.3022	0.2830	0.3026	0.2972	0.2970	0.2763	0.2201	0.2922	-----	0.284	6.83	0.985	1.00	9.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chlorobenzene	1	0	Avg	0.7074	0.7065	0.7956	0.7367	0.7483	0.7120	0.6196	0.9159	-----	0.743	6.79	0.995	1.00	12	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butyl acrylate	1	0	Avg	1.5473	1.3748	1.6260	1.8417	1.8502	1.8586	1.7375	1.4545	-----	1.66	7.05	0.999	1.00	11	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Amyl acetate	1	0	Avg	1.3804	1.1417	1.3646	1.5947	1.6267	1.6033	1.4925	1.3742	-----	1.45	7.19	0.999	1.00	11	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromoform	1	0	Avg	0.5267	0.4268	0.5386	0.6584	0.6775	0.6918	0.6409	0.4022	-----	0.570	7.30	0.998	1.00	20	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethylbenzene	1	0	Avg	0.5249	0.5391	0.5516	0.5488	0.5540	0.4739	0.3795	0.6031	-----	0.522	6.83	0.983	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.7618	0.7882	0.8237	0.8742	0.8662	0.8413	0.7886	1.0494	-----	0.849	7.54	0.999	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromofluorobenzene	1	0	Avg	1.0830	1.0544	1.0941	1.1065	1.1083	1.1375	1.1794	1.0606	-----	1.10	7.47	-1	-1	3.7		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	
Styrene	1	0	Avg	1.6615	1.5717	1.7238	1.8580	1.8509	1.6419	1.3858	1.9261	-----	1.70	7.15	0.990	1.00	10	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
m&p-Xylenes	1	0	Avg	0.8041	0.7808	0.9190	0.8909	0.8892	0.7934	0.6828	1.0104	1.1130	0.876	6.90	0.993	1.00	15	0.10	40.00	10.00	20.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.8153	0.8466	0.9455	0.9295	0.9268	0.8461	0.7315	1.0410	-----	0.885	7.14	0.993	1.00	11	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.3821	0.2977	0.3337	0.4075	0.4210	0.4077	0.3713	0.2462	-----	0.358	7.57	0.998	1.00	17		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichlorobenzene	1	0	Avg	0.9293	0.8574	1.0289	1.0732	1.0574	0.9939	0.9006	1.1196	-----	0.995	8.17	0.997	1.00	9.2	0.60	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dichlorobenzene	1	0	Avg	0.9828	0.9496	0.9802	1.0963	1.0908	1.0118	0.9166	1.2572	-----	1.04	8.23	0.997	1.00	11	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichlorobenzene	1	0	Avg	0.9318	1.0161	1.0498	1.0703	1.0887	1.0143	0.9256	1.2508	-----	1.04	8.48	0.997	1.00	9.8	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Isopropylbenzene	1	0	Avg	1.7010	1.6031	1.8317	1.9163	1.9635	1.8101	1.6296	1.7626	-----	1.78	7.36	0.996	1.00	7.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.0362	0.0356	0.0362	0.0355	0.0319	0.0324	0.0336	0.0281	-----	0.0337	7.46	1.00	1.00	8.3		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Camphene	1	0	Avg	0.5406	0.4038	0.5305	0.6416	0.6709	0.5486	0.4793	0.6095	-----	0.553	7.55	0.991	0.999	16		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichloropropane	1	0	Avg	1.0150	1.0410	1.1279	1.1650	1.1416	1.1060	0.9736	1.1806	-----	1.09	7.58	0.996	1.00	6.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chlorotoluene	1	0	Avg	1.0563	1.0328	1.0981	1.1512	1.1615	0.9652	0.7830	1.3450	-----	1.07	7.70	0.984	1.00	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 11.4

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

8022222 0101

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3M125275.D	CAL @ 20 PPB	02/21/18 10:12	2	3M125283.D	CAL @ 5 PPB	02/21/18 12:25
3	3M125284.D	CAL @ 10 PPB	02/21/18 12:42	4	3M125273.D	CAL @ 50 PPB	02/21/18 09:38
5	3M125271.D	CAL @ 100 PPB	02/21/18 09:05	6	3M125269.D	CAL @ 250 PPB	02/21/18 08:31
7	3M125267.D	CAL @ 500 PPB	02/21/18 07:58	8	3M125282.D	CAL @ 1 PPB	02/21/18 12:09
9	3M125281.D	CAL @ 0.5 PPB	02/21/18 11:52				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	1.6859	1.6536	2.0199	2.1078	1.9814	1.9329	1.6640	1.4603	-----	1.81	7.68	0.994	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Chlorotoluene	1	0	Avg	1.0637	1.1355	1.1846	1.1993	1.1749	1.0633	0.9622	1.2999	-----	1.14	7.76	0.996	1.00	9.1		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Propylbenzene	1	0	Avg	1.7007	1.5948	1.8261	1.9605	1.9974	1.7425	1.5760	1.7849	-----	1.77	7.61	0.996	1.00	8.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.5640	1.6726	1.8769	1.8623	1.9015	1.7152	1.4855	1.9356	-----	1.75	7.59	0.993	1.00	9.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3,5-Trimethylbenzen	1	0	Avg	1.2895	1.0952	1.3360	1.3050	1.2043	0.9844	0.7976	1.1525	-----	1.15	7.71	0.983	0.999	16		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	1.2055	0.9733	1.2213	1.3734	1.3477	1.2112	1.0645	1.3656	-----	1.22	7.71	0.994	1.00	12	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	1.1903	1.0799	1.2215	1.3211	1.3984	1.2581	1.1467	1.2522	-----	1.23	7.93	0.997	1.00	8.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.4331	1.3989	1.5688	1.7148	1.6937	1.5212	1.3833	1.6584	-----	1.55	7.96	0.996	1.00	8.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	1.2586	1.1445	1.3437	1.4308	1.5498	1.4035	1.2821	1.5308	-----	1.37	8.06	0.997	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	1.1650	1.0304	1.1790	1.3854	1.4303	1.2485	1.1419	1.1597	-----	1.22	8.14	0.996	1.00	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	1.3085	1.1014	1.1931	1.4611	1.4570	1.3017	1.1588	1.6186	-----	1.33	8.41	0.995	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	0.7291	0.7296	0.7318	0.8500	0.8699	0.7706	0.7136	1.1177	-----	0.814	8.39	0.997	1.00	17		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4,5-Tetramethylbe	1	0	Avg	1.1773	0.9955	1.1157	1.3445	1.3347	1.1782	1.0814	1.5492	-----	1.22	8.90	0.997	1.00	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromo-3-Chloro	1	0	Qua	0.1518	0.1282	0.1680	0.1894	0.1908	0.2141	0.2035	0.0986	-----	0.168	8.99	0.999	0.999	24	0.05	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Camphor	1	0	Qua	0.0814	0.0885	0.0947	0.0878	0.0877	0.0883	0.0807	0.0440	0.0450	0.0776	9.47	0.998	1.00	25		200.0	50.00	100.0	500.0	1000.	2500.	5000.	10.00	5.00
Hexachlorobutadiene	1	0	Avg	0.5689	0.5324	0.4419	0.5061	0.5014	0.3818	0.3254	0.5268	-----	0.473	9.62	0.986	0.998	18		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trichlorobenzen	1	0	Qua	0.5289	0.4696	0.4850	0.6058	0.5583	0.5037	0.4437	0.8427	-----	0.555	9.53	0.994	1.00	23	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichlorobenzen	1	0	Avg	0.5176	0.4760	0.4665	0.5365	0.5019	0.4474	0.3790	0.6287	-----	0.494	9.87	0.991	1.00	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Naphthalene	1	0	Avg	1.3719	1.2084	1.3504	1.5067	1.3938	1.3569	1.1633	1.6414	-----	1.37	9.72	0.994	1.00	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags	*Note:* Avg Rsd: 11.4
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

8022222 0102

SampleID : 20 PPB
Data File: 3M125275.D
Acq On : 02/21/18 10:12

Operator : SG
Sam Mult : 1 Vial# : 13
Misc : A,5ML

Qt Meth : 3M_A00221.M
Qt On : 02/21/18 13:55
Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.940	96	314974	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.772	117	241752	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	8.213	152	105038	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.519	111	96406	30.58	ug/l	-0.02
Spiked Amount 30.000			Recovery = 101.93%			
39) 1,2-Dichloroethane-d4	4.741	67	66756	31.47	ug/l	-0.01
Spiked Amount 30.000			Recovery = 104.90%			
66) Toluene-d8	5.895	98	309956	32.87	ug/l	-0.02
Spiked Amount 30.000			Recovery = 109.57%			
76) Bromofluorobenzene	7.474	174	113756	32.32	ug/l	-0.02
Spiked Amount 30.000			Recovery = 107.73%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.594	51	89986	18.9882	ug/l	40
6) Dichlorodifluoromethane	1.577	85	12853	4.7161	ug/l	92
7) Chloromethane	1.744	50	28106	8.3650	ug/l	83
8) Bromomethane	2.110	94	21448	14.5962	ug/l	74
9) Vinyl Chloride	1.827	62	29221	10.5448	ug/l	90
10) Chloroethane	2.194	64	24448	13.0690	ug/l	95
11) Trichlorofluoromethane	2.405	101	57535	13.3056	ug/l	84
12) Ethyl ether	2.627	59	45076	17.2513	ug/l	82
13) Furan	2.669	39	97977	15.1385	ug/l	91
14) 1,1,2-Trichloro-1,2,2-...	2.807	101	25289	14.2929	ug/l	95
15) Methylene Chloride	3.222	84	48416	16.7914	ug/l	95
16) Acrolein	2.747	56	42914	78.9571	ug/l	98
17) Acrylonitrile	3.426	53	17966	15.5618	ug/l	97
18) Iodomethane	2.963	142	52226	17.7669	ug/l	89
19) Acetone	2.867	43	89017	77.6514	ug/l	99
20) Carbon Disulfide	3.023	76	102983	15.9211	ug/l	100
21) t-Butyl Alcohol	3.282	59	26960	79.5776	ug/l	67
22) n-Hexane	3.654	57	19560	16.0096	ug/l	81
23) Di-isopropyl-ether	3.810	45	162259	17.1838	ug/l	99
24) 1,1-Dichloroethene	2.825	61	68921	17.1795	ug/l	90
25) Methyl Acetate	3.131	43	65644	15.1694	ug/l	100
26) Methyl-t-butyl ether	3.426	73	143199	16.6852	ug/l	64
27) 1,1-Dichloroethane	3.798	63	82293	17.2140	ug/l	87
28) trans-1,2-Dichloroethene	3.444	96	43757	17.2852	ug/l	85
29) Ethyl-t-butyl ether	4.081	59	172299	18.0068	ug/l	95
30) cis-1,2-Dichloroethene	4.213	61	88051	16.1731	ug/l	84
31) Bromochloromethane	4.375	49	42764	13.8002	ug/l	95
32) 2,2-Dichloropropane	4.213	77	68680	18.7626	ug/l	94
33) Ethyl acetate	4.231	43	59447m	15.9769	ug/l	
34) 1,4-Dioxane	5.384	88	25923	741.2410	ug/l	86
35) 1,1-Dichloropropene	4.639	75	61035	16.6548	ug/l	96
36) Chloroform	4.417	83	95504	16.6696	ug/l	96
38) Cyclohexane	4.579	56	33721	16.0522	ug/l	96
40) 1,2-Dichloroethane	4.789	62	93929	16.7008	ug/l	99
41) 2-Butanone	4.219	43	22858m	13.3216	ug/l	
42) 1,1,1-Trichloroethane	4.549	97	79358	17.3910	ug/l	88
43) Carbon Tetrachloride	4.645	117	58291	15.6131	ug/l	88
44) Vinyl Acetate	3.810	43	103064	15.5735	ug/l	100
45) Bromodichloromethane	5.468	83	69355	15.6514	ug/l	99
46) Methylcyclohexane	5.288	83	25602	16.3222	ug/l	87
47) Dibromomethane	5.390	174	41729	18.4247	ug/l	90
48) 1,2-Dichloropropane	5.306	63	44879	16.8503	ug/l	99
49) Trichloroethene	5.162	130	49590	16.7340	ug/l	95
50) Benzene	4.777	78	167481	16.8468	ug/l	100
51) tert-Amyl methyl ether	4.813	73	157694	18.0212	ug/l	73
53) Iso-propylacetate	4.777	43	126051	19.6488	ug/l	95
54) Methyl methacrylate	5.336	41	71801m	19.3736	ug/l	
55) Dibromochloromethane	6.423	129	53789	18.8918	ug/l	91
56) 2-Chloroethylvinylether	5.618	63	30367	18.3709	ug/l	96
57) cis-1,3-Dichloropropene	5.732	75	75343	20.3009	ug/l	91
58) trans-1,3-Dichloropropene	6.051	75	79399	21.4739	ug/l	99
59) Ethyl methacrylate	6.063	41	66071	18.6635	ug/l	76
60) 1,1,2-Trichloroethane	6.171	97	44790	19.3686	ug/l	83
61) 1,2-Dibromoethane	6.507	107	46588	18.1303	ug/l	97
62) 1,3-Dichloropropane	6.273	76	80265	20.1793	ug/l	90
63) 4-Methyl-2-Pentanone	5.805	43	60572	19.9152	ug/l	96
64) 2-Hexanone	6.285	43	39218	17.5070	ug/l	88
65) Tetrachloroethene	6.267	164	31494	20.9789	ug/l	80
67) Toluene	5.937	92	104370	20.4144	ug/l	100

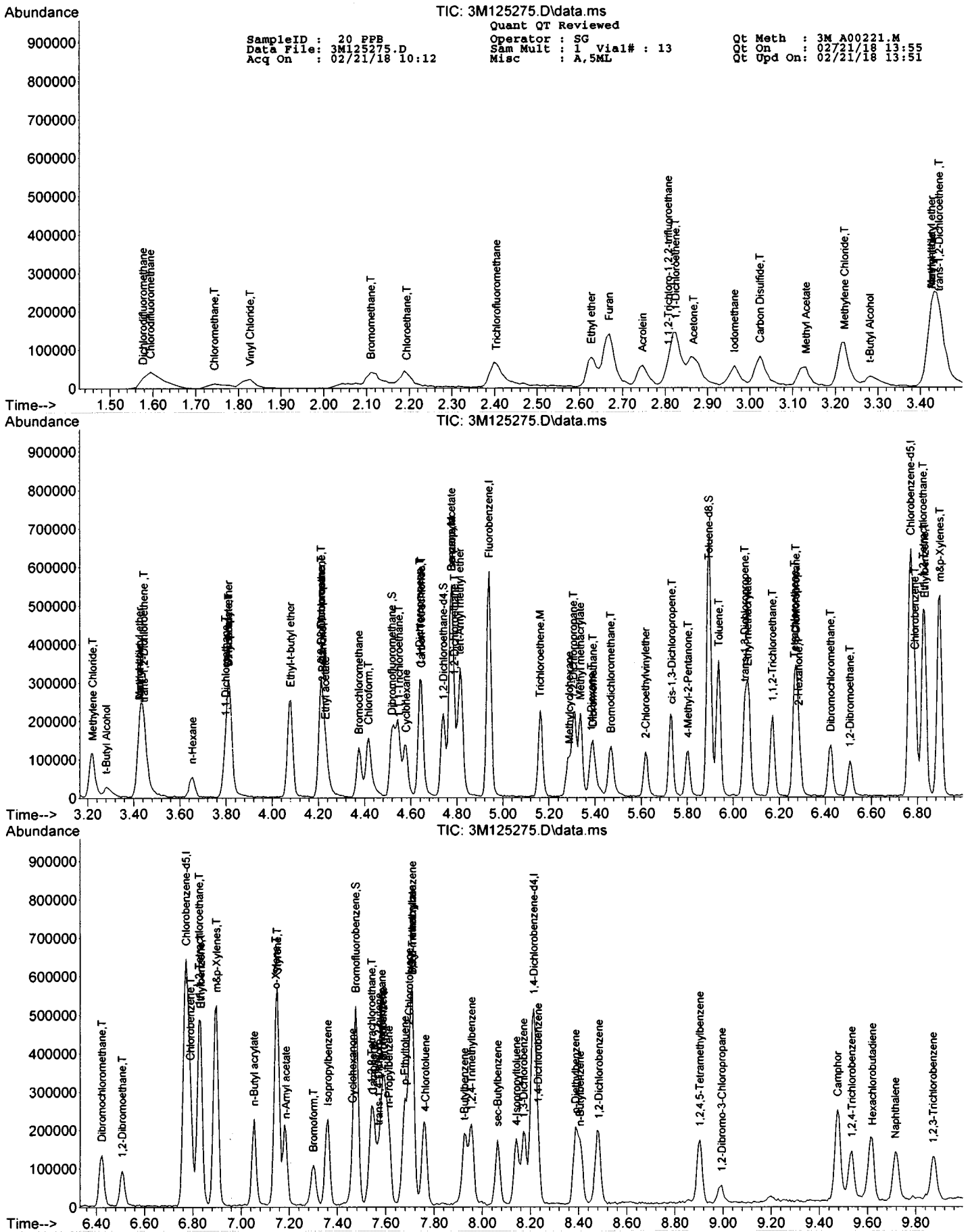
Quantitation Report (QT Reviewed)

SampleID : 20 PPB
Data File: 3M125275.D
Acq On : 02/21/18 10:12
Operator : SG
Sam Mult : 1 Vial# : 13
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 02/21/18 13:55
Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.826	133	48709	22.0692	ug/l	70
69)	Chlorobenzene	6.790	112	114014	19.5759	ug/l	91
71)	n-Butyl acrylate	7.054	55	108356	21.1236	ug/l	92
72)	n-Amyl acetate	7.186	43	96665	20.4967	ug/l	88
73)	Bromoform	7.300	173	36885	20.2602	ug/l	85
74)	Ethylbenzene	6.832	106	36760	22.5684	ug/l	85
75)	1,1,2,2-Tetrachloroethane	7.541	83	53346	19.8024	ug/l	94
77)	Styrene	7.150	104	116351	22.7163	ug/l	93
78)	m&p-Xylenes	6.898	106	112621	43.0046	ug/l	91
79)	o-Xylene	7.144	106	57092	20.4241	ug/l	80
80)	trans-1,4-Dichloro-2-b...	7.571	53	26758	22.6044	ug/l	70
81)	1,3-Dichlorobenzene	8.171	146	65077	21.7572	ug/l	92
82)	1,4-Dichlorobenzene	8.231	146	68826	21.3497	ug/l	96
83)	1,2-Dichlorobenzene	8.484	146	65251	21.1923	ug/l	93
84)	Isopropylbenzene	7.360	105	119113	22.0464	ug/l	97
85)	Cyclohexanone	7.462	55	12699	97.7100	ug/l	96
86)	Camphene	7.547	93	37860	23.1093	ug/l	98
87)	1,2,3-Trichloropropane	7.583	75	71076	20.3343	ug/l	99
88)	2-Chlorotoluene	7.697	91	73973	22.0515	ug/l	96
89)	p-Ethyltoluene	7.679	105	118056	21.0984	ug/l	81
90)	4-Chlorotoluene	7.763	91	74489	21.2542	ug/l	97
91)	n-Propylbenzene	7.613	91	119092	21.7487	ug/l	96
92)	Bromobenzene	7.589	77	109524	19.7714	ug/l	97
93)	1,3,5-Trimethylbenzene	7.709	105	90298	23.0644	ug/l	88
94)	Butyl methacrylate	7.709	41	84417	21.9411	ug/l	86
95)	t-Butylbenzene	7.925	119	83351	22.8884	ug/l	86
96)	1,2,4-Trimethylbenzene	7.955	105	100357	21.6381	ug/l	93
97)	sec-Butylbenzene	8.063	105	88135	22.7412	ug/l	98
98)	4-Isopropyltoluene	8.141	119	81581	23.6899	ug/l	96
99)	n-Butylbenzene	8.406	91	91630	24.4544	ug/l	90
100)	p-Diethylbenzene	8.388	119	51062	24.1461	ug/l	95
101)	1,2,4,5-Tetramethylben...	8.904	119	82446	27.0152	ug/l	95
102)	1,2-Dibromo-3-Chloropr...	8.994	157	10631	19.4163	ug/l	86
103)	Camphor	9.475	95	57019	214.0274	ug/l	87
104)	Hexachlorobutadiene	9.619	225	39838	26.4402	ug/l	97
105)	1,2,4-Trichlorobenzene	9.535	180	37043	24.6127	ug/l	96
106)	1,2,3-Trichlorobenzene	9.871	180	36250	26.5653	ug/l	95
107)	Naphthalene	9.715	128	96068	24.9351	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 3M125275.D\data.ms
Quant QT Reviewed
SampleID : 20 PPB
Data File: 3M125275.D
Acq On : 02/21/18 10:12
Operator : SG
Sam Mult : 1 Vial# : 13
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 02/21/18 13:55
Qt Upd On: 02/21/18 13:51
Abundance
Time-->

8022222 0105

SampleID : CAL @ 5 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125283.D Sam Mult : 1 Vial# : 18 Qt On : 02/21/18 14:34
Acq On : 02/21/18 12:25 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.939	96	317078	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.771	117	238991	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	8.213	152	107957	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.525	111	88411	27.86	ug/l	-0.01
Spiked Amount 30.000			Recovery = 92.87%			
39) 1,2-Dichloroethane-d4	4.741	67	67458	31.59	ug/l	-0.01
Spiked Amount 30.000			Recovery = 105.30%			
66) Toluene-d8	5.894	98	312244	33.49	ug/l	-0.02
Spiked Amount 30.000			Recovery = 111.63%			
76) Bromofluorobenzene	7.480	174	113830	31.47	ug/l	-0.01
Spiked Amount 30.000			Recovery = 104.90%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.592	51	20447	4.2860	ug/l	44
6) Dichlorodifluoromethane	1.576	85	3540	1.2903	ug/l	95
7) Chloromethane	1.742	50	7835	2.3164	ug/l	97
8) Bromomethane	2.110	94	4738	3.2030	ug/l	98
9) Vinyl Chloride	1.826	62	7957	2.8523	ug/l	86
10) Chloroethane	2.194	64	6539	3.4723	ug/l	88
11) Trichlorofluoromethane	2.398	101	13279	3.0505	ug/l	80
12) Ethyl ether	2.632	59	10768	4.0937	ug/l	80
13) Furan	2.668	39	23472	3.6026	ug/l	99
14) 1,1,2-Trichloro-1,2,2-...	2.813	101	5855	3.2872	ug/l	81
15) Methylene Chloride	3.227	84	10732	3.6973	ug/l	98
16) Acrolein	2.747	56	7409	13.5413	ug/l	67
17) Acrylonitrile	3.431	53	4403	3.7885	ug/l	88
18) Iodomethane	2.957	142	11222	3.7923	ug/l	87
19) Acetone	2.873	43	21208	18.3774	ug/l	99
20) Carbon Disulfide	3.023	76	23273	3.5741	ug/l	100
21) t-Butyl Alcohol	3.287	59	7573	22.2048	ug/l	97
22) n-Hexane	3.648	57	4134m	3.3612	ug/l	
23) Di-isopropyl-ether	3.816	45	38827	4.0846	ug/l	68
24) 1,1-Dichloroethene	2.825	61	15992	3.9598	ug/l	95
25) Methyl Acetate	3.131	43	18923	4.3438	ug/l	100
26) Methyl-t-butyl ether	3.431	73	35795	4.1431	ug/l	66
27) 1,1-Dichloroethane	3.804	63	20743	4.3102	ug/l	84
28) trans-1,2-Dichloroethene	3.455	96	11231	4.4071	ug/l	62
29) Ethyl-t-butyl ether	4.080	59	43517	4.5177	ug/l	94
30) cis-1,2-Dichloroethene	4.212	61	21291	3.8848	ug/l	79
31) Bromochloromethane	4.380	49	13719m	4.3978	ug/l	
32) 2,2-Dichloropropane	4.212	77	13709	3.7203	ug/l	79
33) Ethyl acetate	4.236	43	15482m	4.1333	ug/l	
34) 1,4-Dioxane	5.384	88	8052	228.7107	ug/l	50
35) 1,1-Dichloropropene	4.639	75	15998	4.3364	ug/l	99
36) Chloroform	4.417	83	22623	3.9225	ug/l	91
38) Cyclohexane	4.579	56	8652	4.0913	ug/l	91
40) 1,2-Dichloroethane	4.789	62	26120	4.6134	ug/l	88
41) 2-Butanone	4.218	43	6831m	3.9547	ug/l	
42) 1,1,1-Trichloroethane	4.549	97	19283	4.1977	ug/l	100
43) Carbon Tetrachloride	4.645	117	13032	3.4674	ug/l	72
44) Vinyl Acetate	3.816	43	26175	3.9289	ug/l	100
45) Bromodichloromethane	5.468	83	15003	3.3633	ug/l	93
46) Methylcyclohexane	5.294	83	6138	3.8872	ug/l	89
47) Dibromomethane	5.390	174	10743	4.7119	ug/l	91
48) 1,2-Dichloropropane	5.312	63	11049	4.1209	ug/l	95
49) Trichloroethene	5.161	130	13227	4.4338	ug/l	81
50) Benzene	4.777	78	44388	4.4353	ug/l	100
51) tert-Amyl methyl ether	4.819	73	37698	4.2795	ug/l	76
53) Iso-propylacetate	4.777	43	31568	4.9777	ug/l	96
54) Methyl methacrylate	5.342	41	16314m	4.4528	ug/l	
55) Dibromochloromethane	6.423	129	11702	4.1575	ug/l	87
56) 2-Chloroethylvinylether	5.624	63	8007	4.8999	ug/l	88
57) cis-1,3-Dichloropropene	5.732	75	16871	4.5984	ug/l	89
58) trans-1,3-Dichloropropene	6.050	75	17130	4.6864	ug/l	100
59) Ethyl methacrylate	6.062	41	17182	4.9096	ug/l	77
60) 1,1,2-Trichloroethane	6.171	97	12355	5.4044	ug/l	86
61) 1,2-Dibromoethane	6.513	107	13372	5.2640	ug/l	82
62) 1,3-Dichloropropane	6.273	76	21367	5.4339	ug/l	87
63) 4-Methyl-2-Pentanone	5.804	43	13928	4.6322	ug/l	72
64) 2-Hexanone	6.291	43	10647	4.8077	ug/l	96
65) Tetrachloroethene	6.267	164	6837	4.6069	ug/l	92
67) Toluene	5.936	92	25714	5.0877	ug/l	78

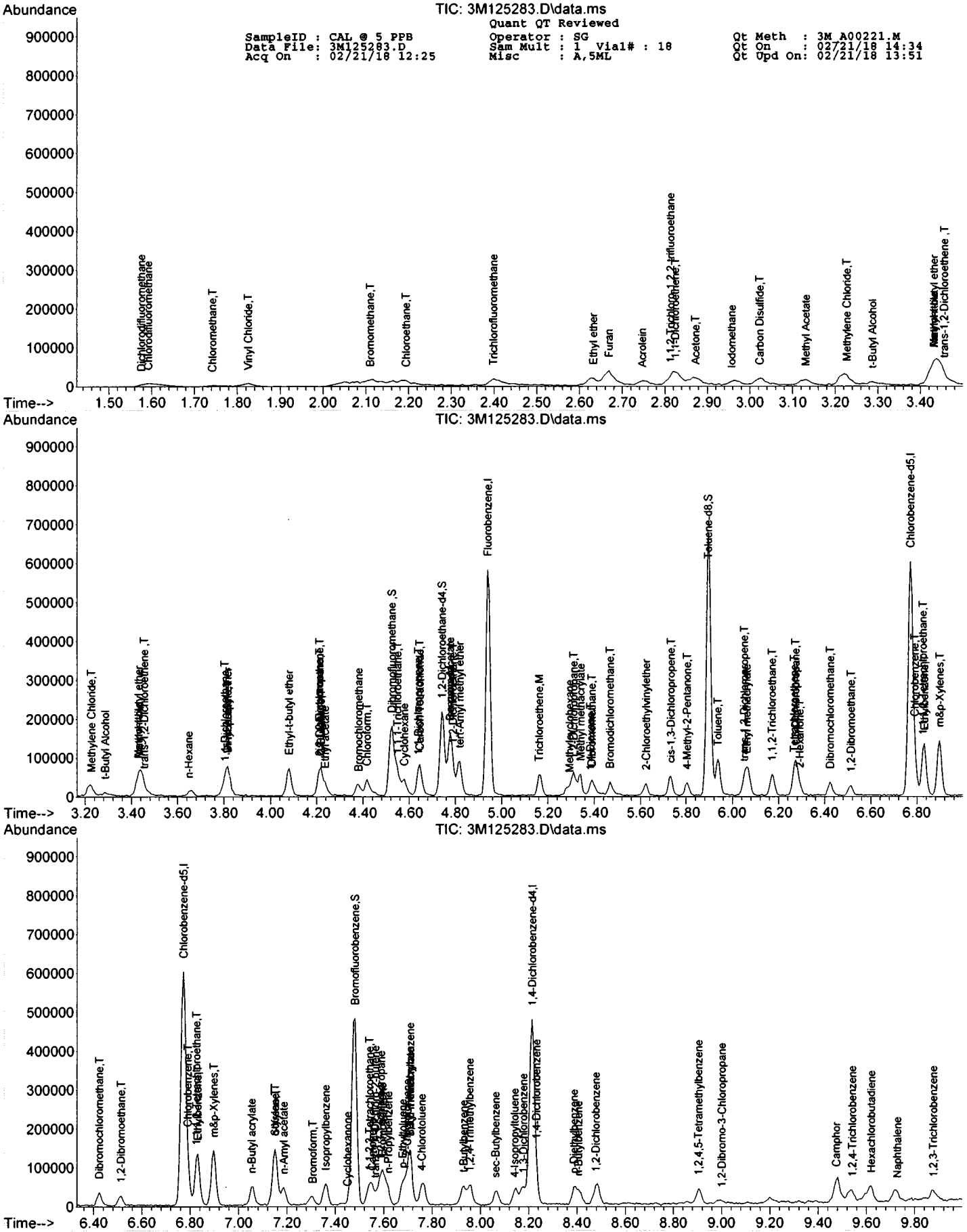
Quantitation Report (QT Reviewed)

SampleID : CAL @ 5 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125283.D Sam Mult : 1 Vial# : 18 Qt On : 02/21/18 14:34
Acq On : 02/21/18 12:25 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.825	133	11274	5.1671	ug/l		80
69)	Chlorobenzene	6.789	112	28144	4.8881	ug/l		92
71)	n-Butyl acrylate	7.054	55	24737	4.6920	ug/l		97
72)	n-Amyl acetate	7.186	43	20543	4.2381	ug/l		79
73)	Bromoform	7.306	173	7680	4.1044	ug/l		84
74)	Ethylbenzene	6.831	106	9700	5.7942	ug/l		83
75)	1,1,2,2-Tetrachloroethane	7.540	83	14183	5.1225	ug/l		94
77)	Styrene	7.150	104	28280	5.3721	ug/l		97
78)	m&p-Xylenes	6.897	106	28100	10.4399	ug/l		83
79)	o-Xylene	7.150	106	15234	5.3025	ug/l		60
80)	trans-1,4-Dichloro-2-b...	7.564	53	5358	4.4039	ug/l		85
81)	1,3-Dichlorobenzene	8.177	146	15428	5.0186	ug/l		91
82)	1,4-Dichlorobenzene	8.231	146	17086	5.1567	ug/l		98
83)	1,2-Dichlorobenzene	8.477	146	18284	5.7777	ug/l		95
84)	Isopropylbenzene	7.360	105	28845	5.1945	ug/l		98
85)	Cyclohexanone	7.450	55	3205	23.9935	ug/l		82
86)	Camphene	7.552	93	7266	4.3152	ug/l		92
87)	1,2,3-Trichloropropane	7.588	75	18732	5.2142	ug/l		98
88)	2-Chlorotoluene	7.696	91	18584	5.3901	ug/l		96
89)	p-Ethyltoluene	7.678	105	29754	5.1737	ug/l		71
90)	4-Chlorotoluene	7.756	91	20432	5.6723	ug/l		96
91)	n-Propylbenzene	7.618	91	28696	5.0988	ug/l		95
92)	Bromobenzene	7.594	77	30096	5.2861	ug/l		87
93)	1,3,5-Trimethylbenzene	7.708	105	19706	4.8973	ug/l		77
94)	Butyl methacrylate	7.708	41	17513	4.4288	ug/l		89
95)	t-Butylbenzene	7.931	119	19432	5.1918	ug/l		82
96)	1,2,4-Trimethylbenzene	7.955	105	25171	5.2804	ug/l		98
97)	sec-Butylbenzene	8.063	105	20594	5.1701	ug/l		96
98)	4-Isopropyltoluene	8.141	119	18541	5.2385	ug/l		97
99)	n-Butylbenzene	8.405	91	19819	5.1463	ug/l		93
100)	p-Diethylbenzene	8.387	119	13128	6.0401	ug/l	#	2
101)	1,2,4,5-Tetramethylben...	8.904	119	17913	5.7109	ug/l		90
102)	1,2-Dibromo-3-Chloropr...	9.000	157	2307	4.0996	ug/l		94
103)	Camphor	9.474	95	15924	58.1564	ug/l		91
104)	Hexachlorobutadiene	9.619	225	9581	6.1869	ug/l		99
105)	1,2,4-Trichlorobenzene	9.540	180	8451	5.4633	ug/l		98
106)	1,2,3-Trichlorobenzene	9.877	180	8565	6.1070	ug/l		88
107)	Naphthalene	9.727	128	21743	5.4910	ug/l		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125283.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 5 PPB
Data File: 3M125283.D
Acq On : 02/21/18 12:25
Operator : SG
Sam Mult : 1 Vial# : 18
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 02/21/18 14:34
Qt Upd On: 02/21/18 13:51
Time-->

8022222 0108

Sample ID : CAL @ 10 PPB
Data File: 3M125284.D
Acq On : 02/21/18 12:42
Operator : SG
Sam Mult : 1 Vial# : 19
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 02/21/18 14:36
Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.939	96	279249	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.771	117	219722	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	8.213	152	95197	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.525	111	84379	30.19	ug/l	-0.01
Spiked Amount 30.000			Recovery = 100.63%			
39) 1,2-Dichloroethane-d4	4.741	67	57506	30.58	ug/l	-0.01
Spiked Amount 30.000			Recovery = 101.93%			
66) Toluene-d8	5.894	98	271270	31.65	ug/l	-0.02
Spiked Amount 30.000			Recovery = 105.50%			
76) Bromofluorobenzene	7.480	174	104158	32.65	ug/l	-0.01
Spiked Amount 30.000			Recovery = 108.83%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.593	51	41151	9.7943	ug/l	42
6) Dichlorodifluoromethane	1.576	85	6573	2.7204	ug/l	80
7) Chloromethane	1.760	50	13996	4.6984	ug/l	64
8) Bromomethane	2.110	94	10585	8.1250	ug/l	68
9) Vinyl Chloride	1.826	62	16730	6.8096	ug/l	95
10) Chloroethane	2.194	64	13283	8.0090	ug/l	98
11) Trichlorofluoromethane	2.398	101	32160	8.3888	ug/l	81
12) Ethyl ether	2.633	59	21161	9.1347	ug/l	79
13) Furan	2.663	39	49426	8.6138	ug/l	94
14) 1,1,2-Trichloro-1,2,2-...	2.813	101	12128	7.7315	ug/l	97
15) Methylene Chloride	3.221	84	25251	9.8778	ug/l	72
16) Acrolein	2.747	56	17280	35.8607	ug/l	70
17) Acrylonitrile	3.426	53	9167	8.9561	ug/l	71
18) Iodomethane	2.963	142	25086	9.6259	ug/l	98
19) Acetone	2.873	43	46543	45.7945	ug/l	98
20) Carbon Disulfide	3.029	76	45996	8.0207	ug/l	100
21) t-Butyl Alcohol	3.287	59	12572	41.8561	ug/l	77
22) n-Hexane	3.648	57	9385	8.6642	ug/l	84
23) Di-isopropyl-ether	3.816	45	78687	9.3993	ug/l	92
24) 1,1-Dichloroethene	2.825	61	32337	9.0916	ug/l	92
25) Methyl Acetate	3.125	43	36161	9.4253	ug/l	100
26) Methyl-t-butyl ether	3.432	73	72707	9.5554	ug/l	64
27) 1,1-Dichloroethane	3.798	63	40667	9.5950	ug/l	87
28) trans-1,2-Dichloroethene	3.444	96	20946	9.3328	ug/l	86
29) Ethyl-t-butyl ether	4.080	59	86967	10.2516	ug/l	95
30) cis-1,2-Dichloroethene	4.212	61	42950	8.8983	ug/l	79
31) Bromochloromethane	4.375	49	22533	8.2018	ug/l	78
32) 2,2-Dichloropropane	4.212	77	28108	8.6612	ug/l	85
33) Ethyl acetate	4.237	43	26893m	8.1524	ug/l	
34) 1,4-Dioxane	5.384	88	13706	442.0465	ug/l	80
35) 1,1-Dichloropropene	4.639	75	30342	9.3387	ug/l	95
36) Chloroform	4.417	83	47985	9.4470	ug/l	89
38) Cyclohexane	4.579	56	17010	9.1332	ug/l	96
40) 1,2-Dichloroethane	4.789	62	51581	10.3445	ug/l	95
41) 2-Butanone	4.224	43	14038m	9.2280	ug/l	
42) 1,1,1-Trichloroethane	4.549	97	40021	9.8924	ug/l	99
43) Carbon Tetrachloride	4.651	117	27411	8.2812	ug/l	97
44) Vinyl Acetate	3.816	43	52554	8.9571	ug/l	100
45) Bromodichloromethane	5.468	83	34330	8.7384	ug/l	83
46) Methylcyclohexane	5.282	83	12980	9.3339	ug/l	88
47) Dibromomethane	5.396	174	20944	10.4305	ug/l	97
48) 1,2-Dichloropropane	5.312	63	21408	9.0662	ug/l	100
49) Trichloroethene	5.162	130	24952	9.4972	ug/l	78
50) Benzene	4.777	78	82784	9.3925	ug/l	100
51) tert-Amyl methyl ether	4.819	73	75521	9.7346	ug/l	76
53) Iso-propylacetate	4.777	43	61247	10.5044	ug/l	96
54) Methyl methacrylate	5.336	41	33014m	9.8011	ug/l	
55) Dibromochloromethane	6.423	129	25825	9.9797	ug/l	80
56) 2-Chloroethylvinylether	5.624	63	16984	11.3049	ug/l	87
57) cis-1,3-Dichloropropene	5.732	75	34091	10.1067	ug/l	95
58) trans-1,3-Dichloropropene	6.051	75	36388	10.8281	ug/l	94
59) Ethyl methacrylate	6.069	41	34119	10.6041	ug/l	86
60) 1,1,2-Trichloroethane	6.171	97	20794	9.8935	ug/l	90
61) 1,2-Dibromoethane	6.513	107	21898	9.3763	ug/l	88
62) 1,3-Dichloropropane	6.273	76	37408	10.3476	ug/l	99
63) 4-Methyl-2-Pentanone	5.804	43	28279	10.2299	ug/l	90
64) 2-Hexanone	6.291	43	20365	10.0024	ug/l	97
65) Tetrachloroethene	6.267	164	16890	12.3789	ug/l	92
67) Toluene	5.936	92	53727	11.5624	ug/l	99

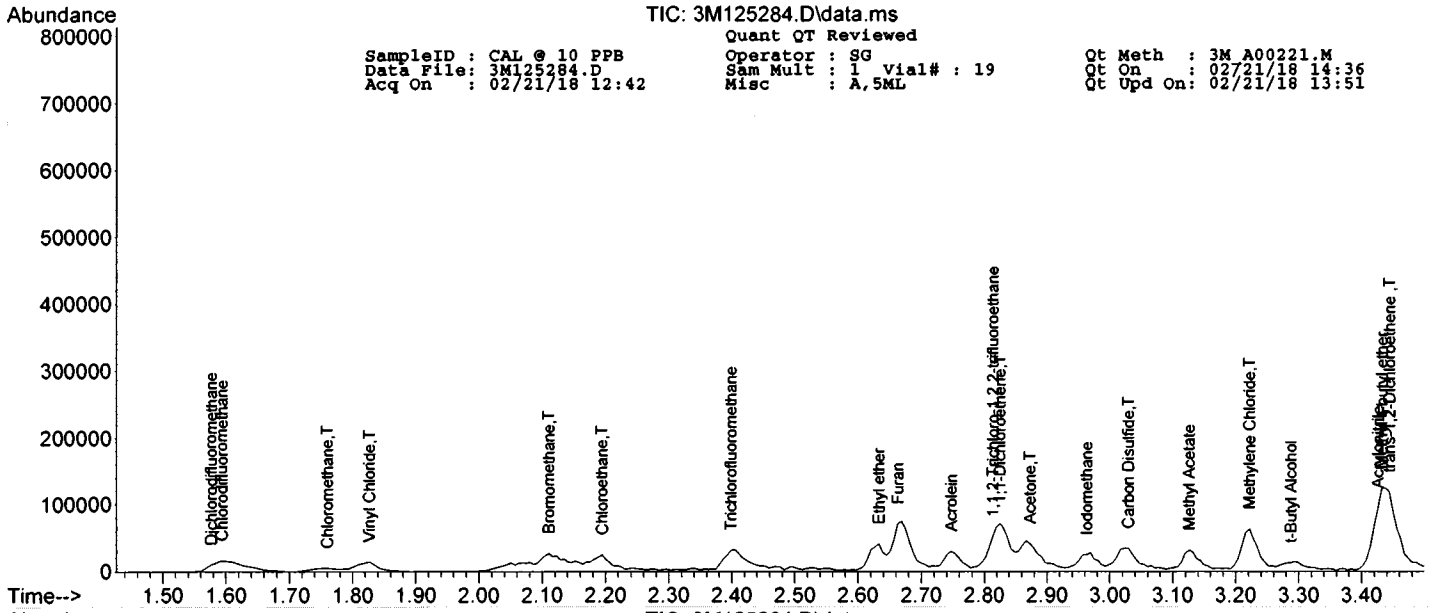
Quantitation Report (QT Reviewed)

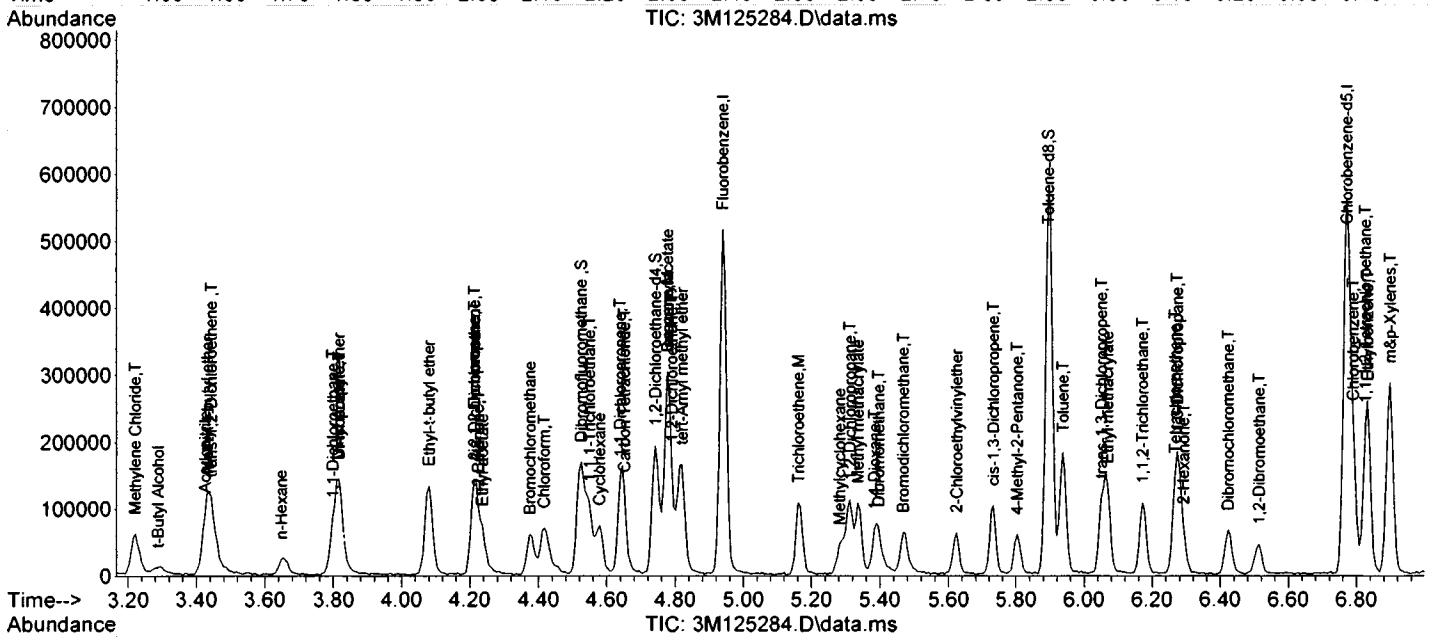
SampleID : CAL @ 10 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125284.D Sam Mult : 1 Vial# : 19 Qt On : 02/21/18 14:36
Acq On : 02/21/18 12:42 Misc : A,5ML Qt Upd On: 02/21/18 13:51

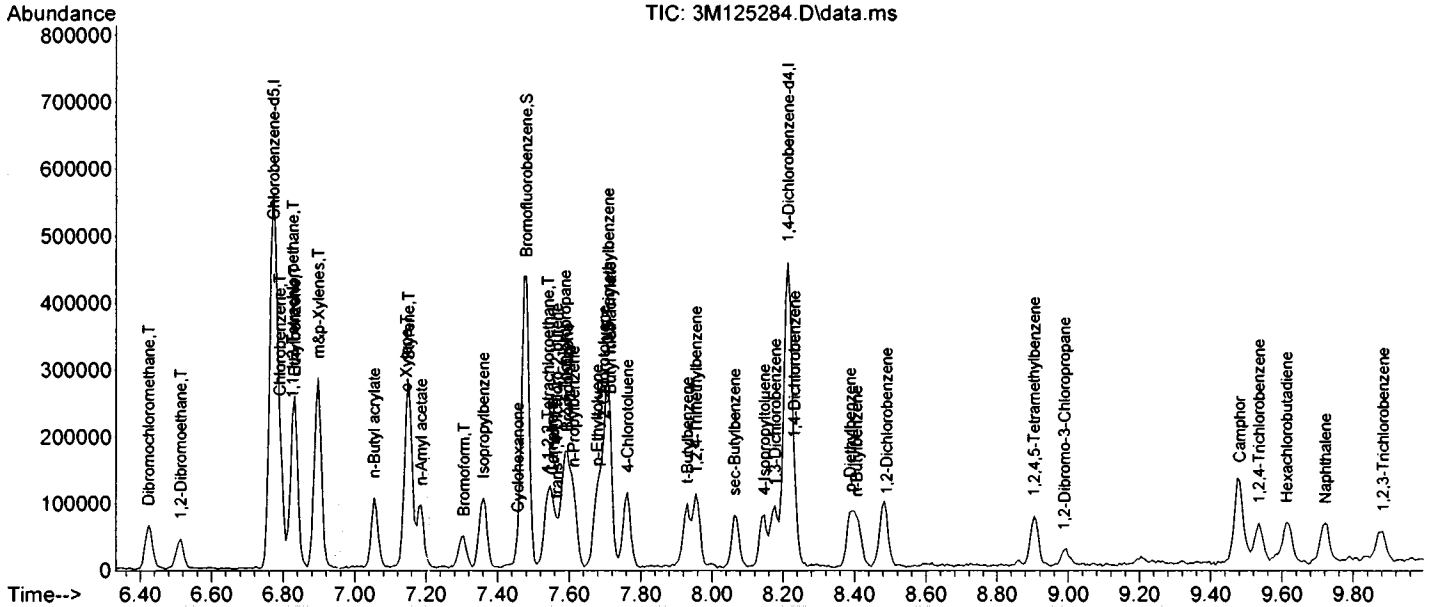
Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.825	133	22167	11.0505	ug/l		81
69)	Chlorobenzene	6.789	112	58275	11.0089	ug/l		98
71)	n-Butyl acrylate	7.054	55	51598	11.0987	ug/l		93
72)	n-Amyl acetate	7.186	43	43302	10.1309	ug/l		84
73)	Bromoform	7.306	173	17091	10.3582	ug/l		75
74)	Ethylbenzene	6.832	106	17504	11.8573	ug/l		99
75)	1,1,2,2-Tetrachloroethane	7.540	83	26139	10.7060	ug/l		96
77)	Styrene	7.150	104	54703	11.7843	ug/l		96
78)	m&p-Xylenes	6.898	106	58328	24.5752	ug/l		83
79)	o-Xylene	7.144	106	30005	11.8436	ug/l		68
80)	trans-1,4-Dichloro-2-b...	7.564	53	10590	9.8709	ug/l		77
81)	1,3-Dichlorobenzene	8.177	146	32651	12.0447	ug/l		90
82)	1,4-Dichlorobenzene	8.231	146	31106	10.6465	ug/l		91
83)	1,2-Dichlorobenzene	8.489	146	33314	11.9383	ug/l		94
84)	Isopropylbenzene	7.360	105	58125	11.8704	ug/l		96
85)	Cyclohexanone	7.456	55	5757	48.8753	ug/l		87
86)	Camphene	7.552	93	16836	11.3388	ug/l		100
87)	1,2,3-Trichloropropane	7.588	75	35792	11.2984	ug/l		99
88)	2-Chlorotoluene	7.697	91	34848	11.4621	ug/l		96
89)	p-Ethyltoluene	7.678	105	64097	12.6393	ug/l		70
90)	4-Chlorotoluene	7.763	91	37590	11.8345	ug/l		94
91)	n-Propylbenzene	7.612	91	57949	11.6767	ug/l		94
92)	Bromobenzene	7.594	77	59561	11.8635	ug/l		92
93)	1,3,5-Trimethylbenzene	7.709	105	42397	11.9487	ug/l		88
94)	Butyl methacrylate	7.715	41	38757	11.1148	ug/l		90
95)	t-Butylbenzene	7.931	119	38761	11.7442	ug/l		92
96)	1,2,4-Trimethylbenzene	7.955	105	49784	11.8436	ug/l		89
97)	sec-Butylbenzene	8.063	105	42641	12.1399	ug/l		100
98)	4-Isopropyltoluene	8.147	119	37413	11.9873	ug/l		94
99)	n-Butylbenzene	8.405	91	37862	11.1493	ug/l		93
100)	p-Diethylbenzene	8.387	119	23223	12.1169	ug/l	#	2
101)	1,2,4,5-Tetramethylben...	8.904	119	35406	12.8008	ug/l		96
102)	1,2-Dibromo-3-Chloropr...	8.988	157	5331	10.7430	ug/l		72
103)	Camphor	9.481	95	30072	124.5476	ug/l		91
104)	Hexachlorobutadiene	9.613	225	14024	10.2698	ug/l		92
105)	1,2,4-Trichlorobenzene	9.535	180	15392	11.2842	ug/l		93
106)	1,2,3-Trichlorobenzene	9.883	180	14804	11.9704	ug/l		92
107)	Naphthalene	9.721	128	42853	12.2726	ug/l		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125284.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 10 PPB
Data File: 3M125284.D
Acq On : 02/21/18 12:42
Operator : SG
Sam Mult : 1 Vial# : 19
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 02/21/18 14:36
Qt Upd On: 02/21/18 13:51
Dichlorodifluoromethane
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Time-->


Abundance
TIC: 3M125284.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,T
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene,T
Toluene-d8,S
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
Time-->


Abundance
TIC: 3M125284.D\data.ms
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,T
m&p-Xylenes,T
n-Butyl acrylate
o-Xylene,T
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
1,4-Dichlorobenzene-d4,I
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

SampleID : CAL @ 50 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125273.D Sam Mult : 1 Vial# : 11 Qt On : 02/21/18 14:10
Acq On : 02/21/18 09:38 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.940	96	297035	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.772	117	237279	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	8.213	152	95829	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.525	111	90136	30.32	ug/l	-0.01
Spiked Amount 30.000			Recovery = 101.07%			
39) 1,2-Dichloroethane-d4	4.741	67	60106	30.05	ug/l	-0.01
Spiked Amount 30.000			Recovery = 100.17%			
66) Toluene-d8	5.895	98	293130	31.67	ug/l	-0.02
Spiked Amount 30.000			Recovery = 105.57%			
76) Bromofluorobenzene	7.481	174	106038	33.02	ug/l	-0.01
Spiked Amount 30.000			Recovery = 110.07%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.591	51	213686	47.8137	ug/l	41
6) Dichlorodifluoromethane	1.574	85	32425	12.6162	ug/l	83
7) Chloromethane	1.758	50	71135	22.4499	ug/l	82
8) Bromomethane	2.104	94	54501	39.3300	ug/l	99
9) Vinyl Chloride	1.824	62	75689	28.9629	ug/l	92
10) Chloroethane	2.194	64	62236	35.2784	ug/l	96
11) Trichlorofluoromethane	2.399	101	155831	38.2141	ug/l	87
12) Ethyl ether	2.627	59	109863	44.5857	ug/l	80
13) Furan	2.663	39	253308	41.5025	ug/l	95
14) 1,1,2-Trichloro-1,2,2-...	2.807	101	60342	36.1640	ug/l	97
15) Methylene Chloride	3.222	84	124455	45.7697	ug/l	85
16) Acrolein	2.747	56	107605	209.9384	ug/l	94
17) Acrylonitrile	3.426	53	49393	45.3671	ug/l	98
18) Iodomethane	2.957	142	134650	48.5734	ug/l	96
19) Acetone	2.867	43	211110	195.2775	ug/l	89
20) Carbon Disulfide	3.023	76	267566	43.8638	ug/l	100
21) t-Butyl Alcohol	3.288	59	72087	225.6291	ug/l	79
22) n-Hexane	3.654	57	52230	45.3315	ug/l	90
23) Di-isopropyl-ether	3.816	45	410312	46.0778	ug/l	99
24) 1,1-Dichloroethene	2.825	61	168713	44.5937	ug/l	90
25) Methyl Acetate	3.126	43	169992	41.6551	ug/l	100
26) Methyl-t-butyl ether	3.432	73	364522	45.0382	ug/l	63
27) 1,1-Dichloroethane	3.798	63	210195	46.6238	ug/l	96
28) trans-1,2-Dichloroethene	3.444	96	112445	47.1015	ug/l	95
29) Ethyl-t-butyl ether	4.081	59	439145	48.6664	ug/l	95
30) cis-1,2-Dichloroethene	4.213	61	227289	44.2696	ug/l	80
31) Bromochloromethane	4.375	49	136975m	46.8721	ug/l	
32) 2,2-Dichloropropane	4.213	77	179035	51.8642	ug/l	95
33) Ethyl acetate	4.231	43	157291m	44.8264	ug/l	
34) 1,4-Dioxane	5.384	88	78064	2366.9662	ug/l	94
35) 1,1-Dichloropropene	4.639	75	156072	45.1598	ug/l	97
36) Chloroform	4.417	83	241151	44.6334	ug/l	86
38) Cyclohexane	4.579	56	83752	42.2763	ug/l	95
40) 1,2-Dichloroethane	4.789	62	238545	44.9754	ug/l	99
41) 2-Butanone	4.219	43	56665m	35.0186	ug/l	
42) 1,1,1-Trichloroethane	4.549	97	199702	46.4069	ug/l	97
43) Carbon Tetrachloride	4.651	117	149156	42.3638	ug/l	97
44) Vinyl Acetate	3.810	43	288433	46.2159	ug/l	100
45) Bromodichloromethane	5.468	83	184866	44.2385	ug/l	97
46) Methylcyclohexane	5.288	83	63387	42.8520	ug/l	95
47) Dibromomethane	5.390	174	106812	50.0092	ug/l	95
48) 1,2-Dichloropropane	5.312	63	113770	45.2961	ug/l	91
49) Trichloroethene	5.162	130	128225	45.8823	ug/l	86
50) Benzene	4.777	78	422402	45.0551	ug/l	100
51) tert-Amyl methyl ether	4.813	73	390411	47.3104	ug/l	73
53) Iso-propylacetate	4.777	43	324517	51.5391	ug/l	96
54) Methyl methacrylate	5.336	41	187967m	51.6740	ug/l	
55) Dibromochloromethane	6.423	129	152681	54.6355	ug/l	97
56) 2-Chloroethylvinylether	5.624	63	83074	51.2042	ug/l	88
57) cis-1,3-Dichloropropene	5.733	75	210293	57.7309	ug/l	88
58) trans-1,3-Dichloropropene	6.051	75	210880	58.1088	ug/l	97
59) Ethyl methacrylate	6.069	41	177279	51.0211	ug/l	78
60) 1,1,2-Trichloroethane	6.171	97	113606	50.0528	ug/l	93
61) 1,2-Dibromoethane	6.507	107	121212	48.0603	ug/l	91
62) 1,3-Dichloropropane	6.273	76	204704	52.4345	ug/l	97
63) 4-Methyl-2-Pentanone	5.805	43	149471	50.0703	ug/l	87
64) 2-Hexanone	6.291	43	104409	47.4869	ug/l	96
65) Tetrachloroethene	6.267	164	79168	53.7299	ug/l	98
67) Toluene	5.937	92	260166	51.8467	ug/l	94

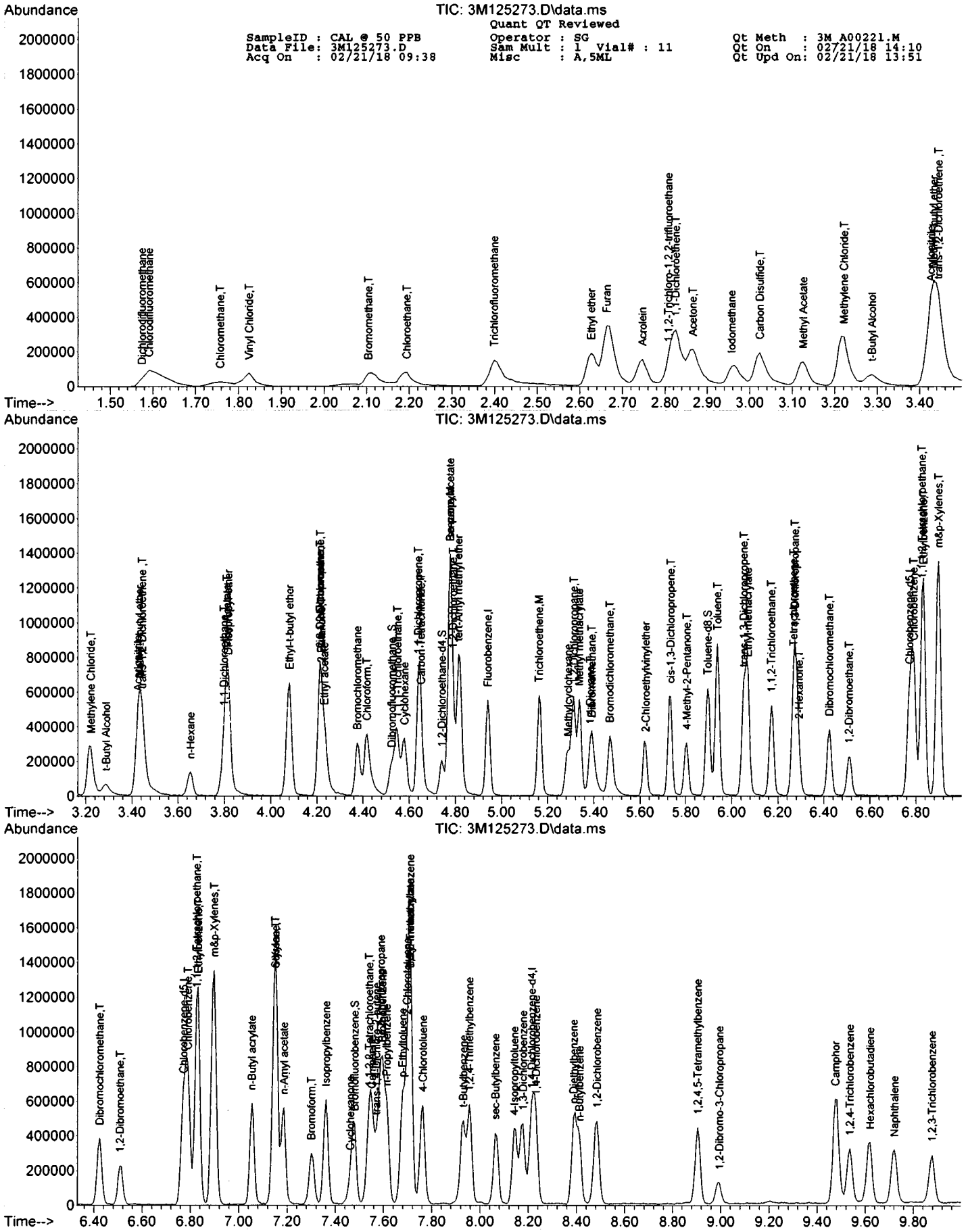
Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125273.D Sam Mult : 1 Vial# : 11 Qt On : 02/21/18 14:10
Acq On : 02/21/18 09:38 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.826	133	117567	54.2717	ug/l	82
69)	Chlorobenzene	6.790	112	291341	50.9654	ug/l	97
71)	n-Butyl acrylate	7.054	55	294160	62.8561	ug/l	93
72)	n-Amyl acetate	7.186	43	254698	59.1957	ug/l	88
73)	Bromoform	7.300	173	105157	63.3112	ug/l	99
74)	Ethylbenzene	6.832	106	87656	58.9870	ug/l	88
75)	1,1,2,2-Tetrachloroethane	7.541	83	139638	56.8159	ug/l	96
77)	Styrene	7.150	104	296761	63.5074	ug/l	95
78)	m&p-Xylenes	6.898	106	284594	119.1163	ug/l	91
79)	o-Xylene	7.150	106	148455	58.2120	ug/l	83
80)	trans-1,4-Dichloro-2-b...	7.571	53	65090	60.2703	ug/l	64
81)	1,3-Dichlorobenzene	8.177	146	171418	62.8177	ug/l	90
82)	1,4-Dichlorobenzene	8.231	146	175104	59.5367	ug/l	96
83)	1,2-Dichlorobenzene	8.484	146	170947	60.8559	ug/l	94
84)	Isopropylbenzene	7.360	105	306070	62.0938	ug/l	96
85)	Cyclohexanone	7.463	55	28359	239.1719	ug/l	97
86)	Camphene	7.553	93	102474	68.5599	ug/l	97
87)	1,2,3-Trichloropropane	7.589	75	186083	58.3529	ug/l	97
88)	2-Chlorotoluene	7.697	91	183870	60.0793	ug/l	98
89)	p-Ethyltoluene	7.679	105	336651	65.9465	ug/l	76
90)	4-Chlorotoluene	7.763	91	191552	59.9086	ug/l	95
91)	n-Propylbenzene	7.613	91	313125	62.6785	ug/l	97
92)	Bromobenzene	7.595	77	297437	58.8536	ug/l	91
93)	1,3,5-Trimethylbenzene	7.709	105	208436	58.3560	ug/l	82
94)	Butyl methacrylate	7.709	41	219358	62.4931	ug/l	86
95)	t-Butylbenzene	7.931	119	210999	63.5089	ug/l	89
96)	1,2,4-Trimethylbenzene	7.955	105	273893	64.7295	ug/l	90
97)	sec-Butylbenzene	8.063	105	228532	64.6341	ug/l	98
98)	4-Isopropyltoluene	8.141	119	221272	70.4289	ug/l	95
99)	n-Butylbenzene	8.412	91	233361	68.2649	ug/l	91
100)	p-Diethylbenzene	8.388	119	135771	70.3729	ug/l	94
101)	1,2,4,5-Tetramethylben...	8.904	119	214740	77.1260	ug/l	97
102)	1,2-Dibromo-3-Chloropr...	8.994	157	30262	60.5815	ug/l	77
103)	Camphor	9.475	95	140289	577.1954	ug/l	93
104)	Hexachlorobutadiene	9.619	225	80845	58.8125	ug/l	94
105)	1,2,4-Trichlorobenzene	9.535	180	96765	70.4728	ug/l	96
106)	1,2,3-Trichlorobenzene	9.877	180	85698	68.8377	ug/l	97
107)	Naphthalene	9.721	128	240654	68.4660	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125273.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 50 PPB
Data File: 3M125273.D
Acq On : 02/21/18 09:38
Operator : SG
Sam Mult : 1 Vial# : 11
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 02/21/18 14:10
Qt Upd On: 02/21/18 13:51
Time-->

8022222 0114

Sample ID : CAL @ 100 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125271.D Sam Mult : 1 Vial# : 9 Qt On : 02/21/18 14:06
Acq On : 02/21/18 09:05 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.946	96	311819	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.778	117	240979	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	8.220	152	97312	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.525	111	92782	29.73	ug/l	-0.01
Spiked Amount 30.000			Recovery = 99.10%			
39) 1,2-Dichloroethane-d4	4.742	67	60461	28.79	ug/l	-0.01
Spiked Amount 30.000			Recovery = 95.97%			
66) Toluene-d8	5.901	98	308155	32.78	ug/l	-0.01
Spiked Amount 30.000			Recovery = 109.27%			
76) Bromofluorobenzene	7.481	174	107856	33.08	ug/l	-0.01
Spiked Amount 30.000			Recovery = 110.27%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.592	51	188451m	40.1680	ug/l	
6) Dichlorodifluoromethane	1.575	85	67298	24.9434	ug/l	93
7) Chloromethane	1.742	50	154917	46.5732	ug/l	82
8) Bromomethane	2.105	94	92034	63.2663	ug/l	93
9) Vinyl Chloride	1.825	62	164975	60.1357	ug/l	96
10) Chloroethane	2.189	64	118719	64.1051	ug/l	86
11) Trichlorofluoromethane	2.399	101	340561	79.5554	ug/l	84
12) Ethyl ether	2.627	59	230699	89.1856	ug/l	81
13) Furan	2.663	39	551041	86.0032	ug/l	92
14) 1,1,2-Trichloro-1,2,2-...	2.813	101	140216	80.0496	ug/l	94
15) Methylene Chloride	3.222	84	245954	86.1638	ug/l	89
16) Acrolein	2.747	56	228015	423.7677	ug/l	91
17) Acrylonitrile	3.432	53	93722	82.0015	ug/l	99
18) Iodomethane	2.964	142	274776	94.4226	ug/l	97
19) Acetone	2.867	43	456306	402.0727	ug/l	97
20) Carbon Disulfide	3.024	76	597401	93.2924	ug/l	100
21) t-Butyl Alcohol	3.288	59	148176	441.7952	ug/l	88
22) n-Hexane	3.654	57	107640	88.9935	ug/l	78
23) Di-isopropyl-ether	3.817	45	844476	90.3379	ug/l	95
24) 1,1-Dichloroethene	2.825	61	367163	92.4461	ug/l	93
25) Methyl Acetate	3.126	43	353851	82.5971	ug/l	100
26) Methyl-t-butyl ether	3.432	73	739535	87.0404	ug/l	64
27) 1,1-Dichloroethane	3.799	63	441135	93.2100	ug/l	98
28) trans-1,2-Dichloroethene	3.444	96	233433	93.1454	ug/l	93
29) Ethyl-t-butyl ether	4.081	59	896633	94.6544	ug/l	96
30) cis-1,2-Dichloroethene	4.213	61	470933	87.3758	ug/l	86
31) Bromochloromethane	4.381	49	220840	71.9874	ug/l	93
32) 2,2-Dichloropropane	4.219	77	364640	100.6235	ug/l	93
33) Ethyl acetate	4.237	43	342323m	92.9333	ug/l	
34) 1,4-Dioxane	5.384	88	146005	4217.1014	ug/l	95
35) 1,1-Dichloropropene	4.646	75	325879	89.8231	ug/l	96
36) Chloroform	4.423	83	504510	88.9500	ug/l	85
38) Cyclohexane	4.579	56	188719	90.7450	ug/l	99
40) 1,2-Dichloroethane	4.790	62	467392	83.9443	ug/l	96
41) 2-Butanone	4.225	43	142667m	83.9872	ug/l	
42) 1,1,1-Trichloroethane	4.549	97	420611	93.1077	ug/l	100
43) Carbon Tetrachloride	4.652	117	310857	84.1046	ug/l	97
44) Vinyl Acetate	3.817	43	586405	89.5053	ug/l	100
45) Bromodichloromethane	5.474	83	393207	89.6334	ug/l	96
46) Methylcyclohexane	5.288	83	142298	91.6379	ug/l	96
47) Dibromomethane	5.396	174	213152	95.0657	ug/l	95
48) 1,2-Dichloropropane	5.312	63	236266	89.6064	ug/l	94
49) Trichloroethene	5.168	130	272701	92.9532	ug/l	82
50) Benzene	4.784	78	860400	87.4226	ug/l	100
51) tert-Amyl methyl ether	4.820	73	792443	91.4762	ug/l	72
53) Iso-propylacetate	4.778	43	659642	103.1545	ug/l	95
54) Methyl methacrylate	5.342	41	378329m	102.4095	ug/l	
55) Dibromochloromethane	6.430	129	313593	110.4934	ug/l	99
56) 2-Chloroethylvinylether	5.625	63	179847	109.1499	ug/l	83
57) cis-1,3-Dichloropropene	5.733	75	447116	120.8604	ug/l	95
58) trans-1,3-Dichloropropene	6.057	75	435714	118.2192	ug/l	100
59) Ethyl methacrylate	6.069	41	368313	104.3733	ug/l	79
60) 1,1,2-Trichloroethane	6.177	97	235936	102.3533	ug/l	94
61) 1,2-Dibromoethane	6.514	107	259684	101.3832	ug/l	91
62) 1,3-Dichloropropane	6.279	76	409285	103.2279	ug/l	98
63) 4-Methyl-2-Pentanone	5.805	43	309154	101.9714	ug/l	87
64) 2-Hexanone	6.291	43	211387	94.6660	ug/l	93
65) Tetrachloroethene	6.273	164	160514	107.2653	ug/l	99
67) Toluene	5.943	92	537537	105.4774	ug/l	98

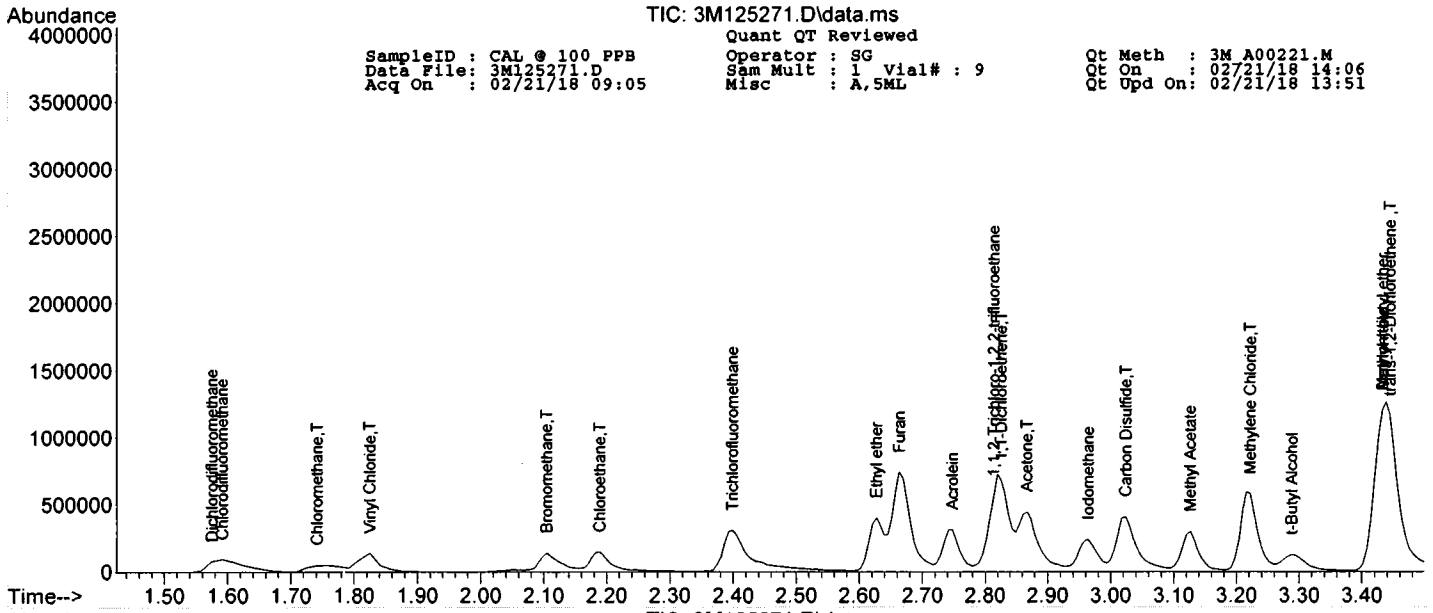
Quantitation Report (QT Reviewed)

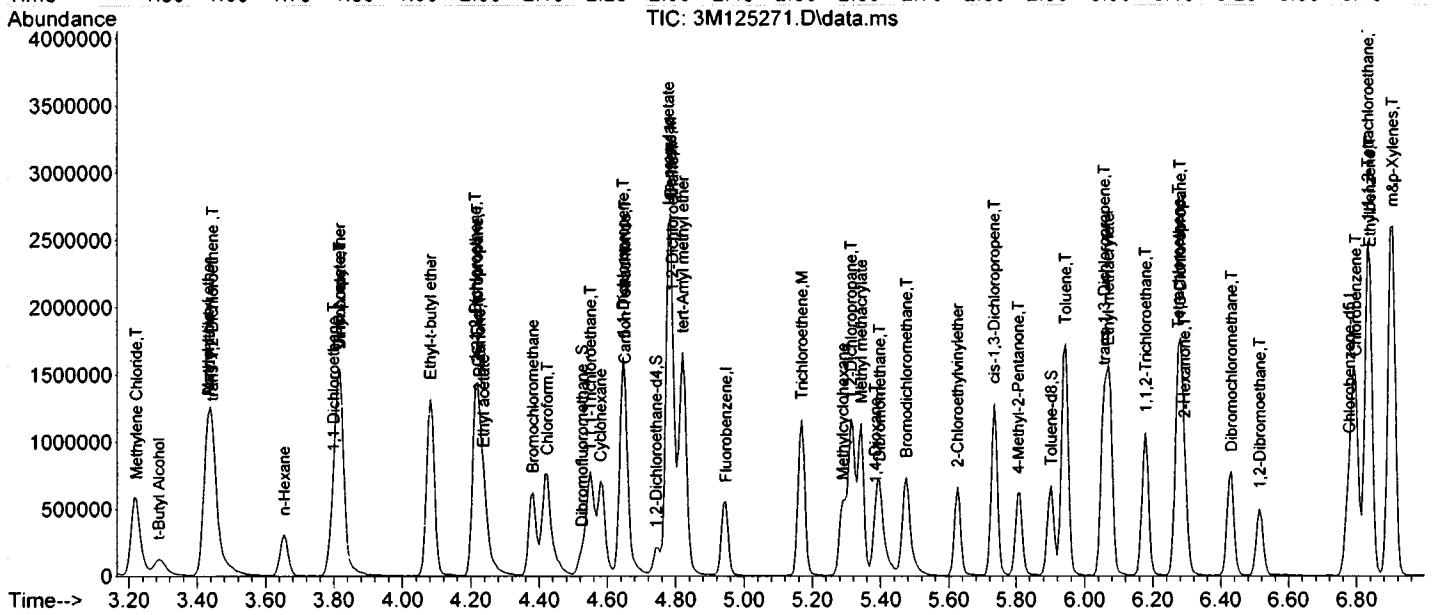
SampleID : CAL @ 100 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125271.D Sam Mult : 1 Vial# : 9 Qt On : 02/21/18 14:06
Acq On : 02/21/18 09:05 Misc : A,5ML Qt Upd On: 02/21/18 13:51

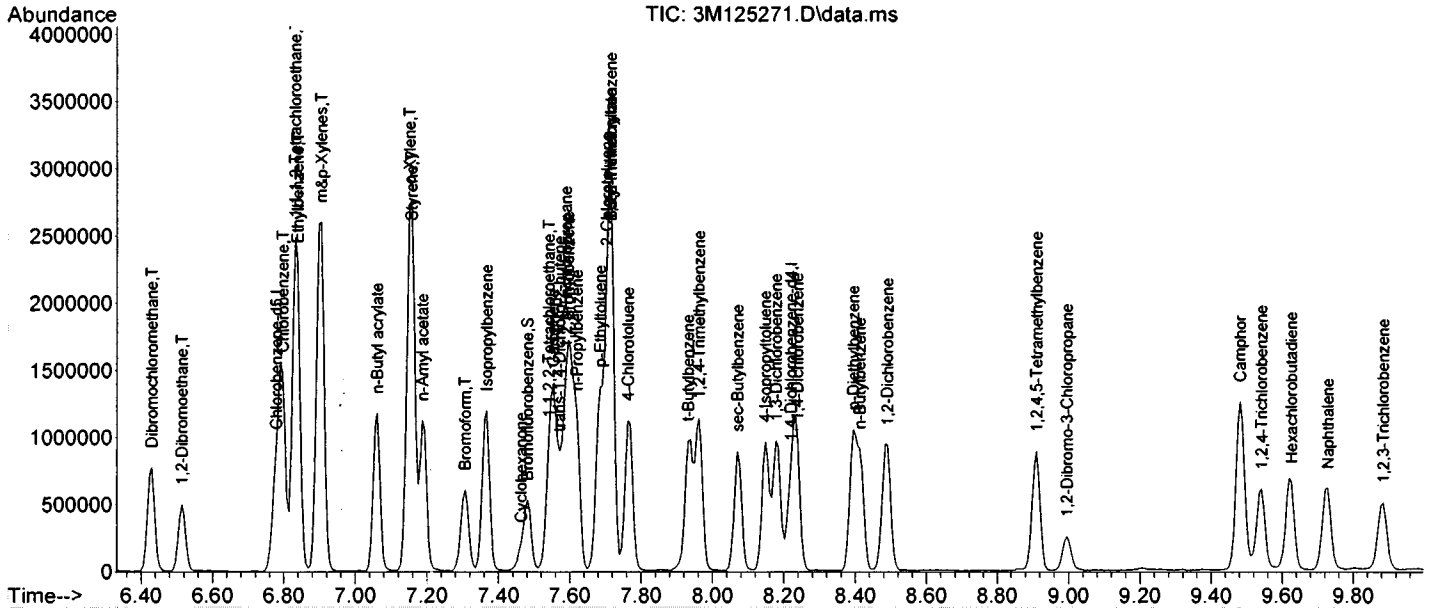
Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.832	133	238643	108.4718	ug/l	83
69)	Chlorobenzene	6.796	112	601110	103.5400	ug/l	96
71)	n-Butyl acrylate	7.060	55	600169	126.2897	ug/l	95
72)	n-Amyl acetate	7.186	43	527679	120.7716	ug/l	88
73)	Bromoform	7.307	173	219777	130.3033	ug/l	100
74)	Ethylbenzene	6.838	106	179712	119.0919	ug/l	80
75)	1,1,2,2-Tetrachloroethane	7.541	83	280976	112.5812	ug/l	92
77)	Styrene	7.156	104	600401	126.5287	ug/l	99
78)	m&p-Xylenes	6.904	106	576916	237.7872	ug/l	92
79)	o-Xylene	7.150	106	300655	116.0958	ug/l	79
80)	trans-1,4-Dichloro-2-b...	7.571	53	136588	124.5467	ug/l	64
81)	1,3-Dichlorobenzene	8.178	146	342993	123.7775	ug/l	91
82)	1,4-Dichlorobenzene	8.238	146	353827	118.4705	ug/l	96
83)	1,2-Dichlorobenzene	8.490	146	353175	123.8117	ug/l	94
84)	Isopropylbenzene	7.367	105	636909	127.2434	ug/l	96
85)	Cyclohexanone	7.463	55	51859	430.6990	ug/l	98
86)	Camphene	7.553	93	217633	143.3876	ug/l	97
87)	1,2,3-Trichloropropane	7.589	75	370330	114.3603	ug/l	98
88)	2-Chlorotoluene	7.703	91	376768	121.2324	ug/l	97
89)	p-Ethyltoluene	7.685	105	642720	123.9836	ug/l	80
90)	4-Chlorotoluene	7.763	91	381109	117.3767	ug/l	93
91)	n-Propylbenzene	7.619	91	647907	127.7156	ug/l	95
92)	Bromobenzene	7.595	77	616800	120.1858	ug/l	90
93)	1,3,5-Trimethylbenzene	7.715	105	390654	107.7049	ug/l	78
94)	Butyl methacrylate	7.715	41	437176	122.6495	ug/l	86
95)	t-Butylbenzene	7.931	119	453614	134.4532	ug/l	87
96)	1,2,4-Trimethylbenzene	7.961	105	549405	127.8628	ug/l	91
97)	sec-Butylbenzene	8.069	105	502742	140.0201	ug/l	97
98)	4-Isopropyltoluene	8.148	119	463957	145.4229	ug/l	93
99)	n-Butylbenzene	8.412	91	472630	136.1511	ug/l	90
100)	p-Diethylbenzene	8.394	119	282175	144.0282	ug/l	95
101)	1,2,4,5-Tetramethylben...	8.910	119	432967	153.1345	ug/l	93
102)	1,2-Dibromo-3-Chloropr...	8.995	157	61902	122.0331	ug/l	80
103)	Camphor	9.481	95	284763	1153.7543	ug/l	90
104)	Hexachlorobutadiene	9.625	225	162668	116.5331	ug/l	97
105)	1,2,4-Trichlorobenzene	9.541	180	181101	129.8836	ug/l	97
106)	1,2,3-Trichlorobenzene	9.884	180	162816	128.7903	ug/l	96
107)	Naphthalene	9.727	128	452132	126.6712	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125271.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 100 PPB
Data File: 3M125271.D
Acq On : 02/21/18 09:05
Operator : SG
Sam Mult : 1 Vial# : 9
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 02/21/18 14:06
Qt Upd On: 02/21/18 13:51
Dichlorodifluoromethane
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Time-->


Abundance
TIC: 3M125271.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene,T
Toluene-d8,S
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
Time-->


Abundance
TIC: 3M125271.D\data.ms
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

8022222 0117

Sample ID : CAL @ 250 PPB
Data File: 3M125269.D
Acq On : 02/21/18 08:31
Operator : SG
Sam Mult : 1 Vial# : 7
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 02/21/18 14:03
Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.939	96	290589	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.771	117	222125	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	8.213	152	92255	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.519	111	85512	29.40	ug/l	-0.02
Spiked Amount 30.000			Recovery = 98.00%			
39) 1,2-Dichloroethane-d4	4.741	67	59518	30.41	ug/l	-0.01
Spiked Amount 30.000			Recovery = 101.37%			
66) Toluene-d8	5.894	98	295042	34.05	ug/l	-0.02
Spiked Amount 30.000			Recovery = 113.50%			
76) Bromofluorobenzene	7.474	174	104942	33.95	ug/l	-0.02
Spiked Amount 30.000			Recovery = 113.17%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.593	51	484828m	110.8901	ug/l	
6) Dichlorodifluoromethane	1.576	85	171189	68.0852	ug/l	91
7) Chloromethane	1.759	50	377299	121.7155	ug/l	83
8) Bromomethane	2.098	94	171087	126.2015	ug/l	90
9) Vinyl Chloride	1.826	62	405497	158.6080	ug/l	95
10) Chloroethane	2.176	64	246997	143.1158	ug/l	94
11) Trichlorofluoromethane	2.392	101	836973	209.8019	ug/l	89
12) Ethyl ether	2.627	59	535062	221.9609	ug/l	80
13) Furan	2.663	39	1220793	204.4542	ug/l	96
14) 1,1,2-Trichloro-1,2,2-...	2.807	101	339596	208.0403	ug/l	97
15) Methylene Chloride	3.215	84	594299	223.4084	ug/l	94
16) Acrolein	2.741	56	568574	1133.9003	ug/l	95
17) Acrylonitrile	3.426	53	230005	215.9440	ug/l	94
18) Iodomethane	2.957	142	681927	251.4539	ug/l	94
19) Acetone	2.867	43	1121896	1060.7778	ug/l	95
20) Carbon Disulfide	3.017	76	1445477	242.2226	ug/l	100
21) t-Butyl Alcohol	3.287	59	375108	1200.1151	ug/l	83
22) n-Hexane	3.648	57	252182	223.7290	ug/l	78
23) Di-isopropyl-ether	3.810	45	1929308	221.4663	ug/l	97
24) 1,1-Dichloroethene	2.819	61	843590	227.9212	ug/l	95
25) Methyl Acetate	3.119	43	840004	210.4016	ug/l	100
26) Methyl-t-butyl ether	3.426	73	1659863	209.6322	ug/l	64
27) 1,1-Dichloroethane	3.792	63	1023645	232.0938	ug/l	99
28) trans-1,2-Dichloroethene	3.444	96	534843	229.0072	ug/l	98
29) Ethyl-t-butyl ether	4.074	59	2041719	231.2840	ug/l	96
30) cis-1,2-Dichloroethene	4.206	61	1086022	216.2192	ug/l	83
31) Bromochloromethane	4.375	49	671666m	234.9391	ug/l	
32) 2,2-Dichloropropane	4.212	77	837829	248.0926	ug/l	93
33) Ethyl acetate	4.231	43	749857m	218.4426	ug/l	
34) 1,4-Dioxane	5.384	88	346975	10753.9472	ug/l	87
35) 1,1-Dichloropropene	4.639	75	715025	211.4835	ug/l	93
36) Chloroform	4.417	83	1174688	222.2399	ug/l	86
38) Cyclohexane	4.579	56	433703	223.7808	ug/l	98
40) 1,2-Dichloroethane	4.789	62	1006447	193.9653	ug/l	100
41) 2-Butanone	4.218	43	310921m	196.4097	ug/l	
42) 1,1,1-Trichloroethane	4.543	97	988730	234.8583	ug/l	98
43) Carbon Tetrachloride	4.645	117	721009	209.3261	ug/l	91
44) Vinyl Acetate	3.810	43	1348007	220.7836	ug/l	100
45) Bromodichloromethane	5.468	83	936215	229.0064	ug/l	99
46) Methylcyclohexane	5.282	83	330593	228.4511	ug/l	94
47) Dibromomethane	5.390	174	477019	228.2935	ug/l	93
48) 1,2-Dichloropropane	5.306	63	547539	222.8313	ug/l	98
49) Trichloroethene	5.162	130	599510	219.2792	ug/l	89
50) Benzene	4.771	78	1795671	195.7823	ug/l	100
51) tert-Amyl methyl ether	4.813	73	1719011	212.9325	ug/l	73
53) Iso-propylacetate	4.771	43	1487837	252.4160	ug/l	96
54) Methyl methacrylate	5.336	41	881390m	258.8334	ug/l	
55) Dibromochloromethane	6.423	129	724417	276.9111	ug/l	96
56) 2-Chloroethylvinylether	5.618	63	418846	275.7759	ug/l	87
57) cis-1,3-Dichloropropene	5.726	75	1028000	301.4661	ug/l	94
58) trans-1,3-Dichloropropene	6.051	75	1002446	295.0729	ug/l	99
59) Ethyl methacrylate	6.069	41	846584	260.2700	ug/l	80
60) 1,1,2-Trichloroethane	6.171	97	536014	252.2699	ug/l	92
61) 1,2-Dibromoethane	6.507	107	608805	257.8580	ug/l	95
62) 1,3-Dichloropropane	6.273	76	899849	246.2196	ug/l	98
63) 4-Methyl-2-Pentanone	5.804	43	747806	267.5927	ug/l	90
64) 2-Hexanone	6.285	43	511363	248.4431	ug/l	91
65) Tetrachloroethene	6.267	164	342307	248.1670	ug/l	100
67) Toluene	5.936	92	1189940	253.3132	ug/l	98

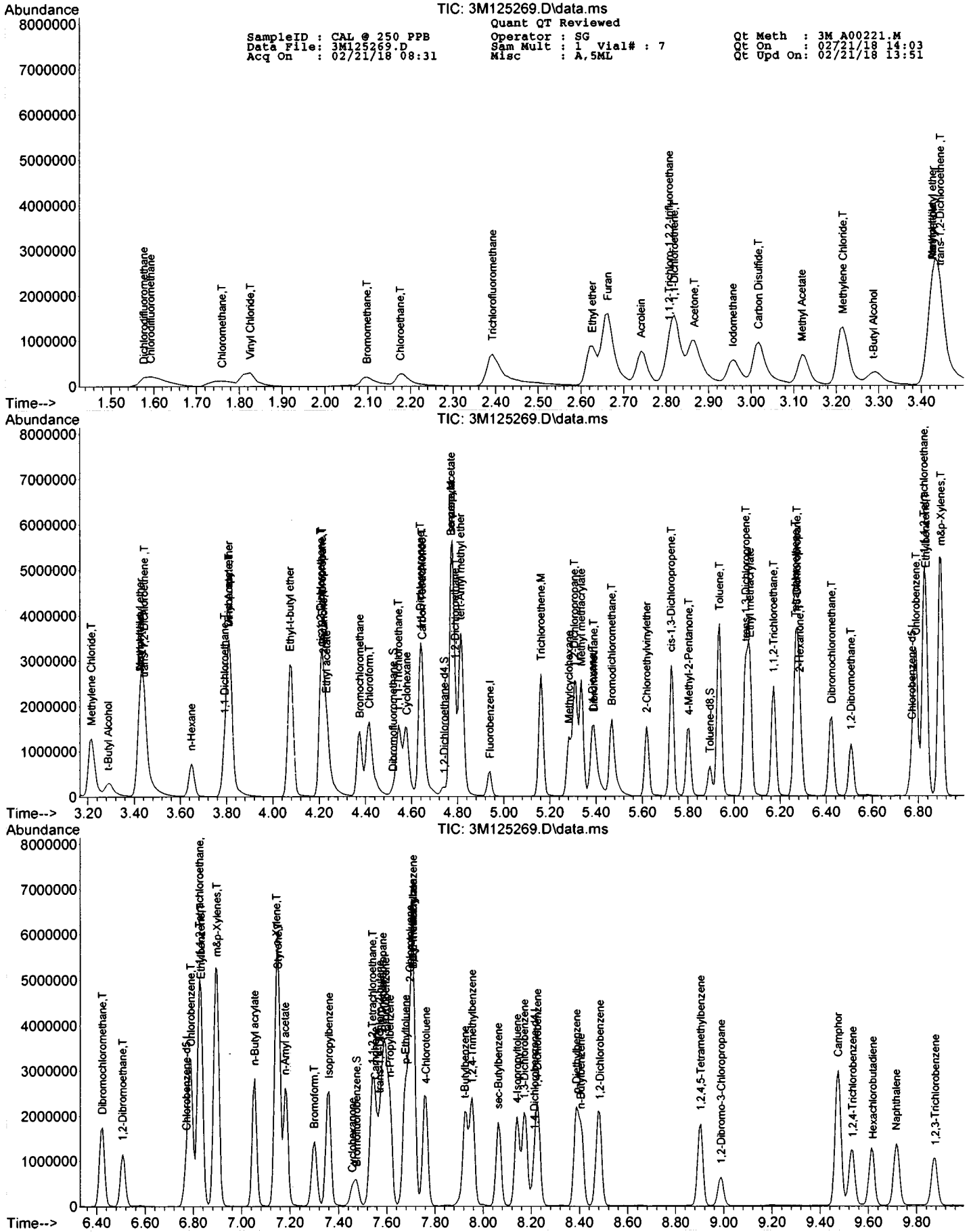
Quantitation Report (QT Reviewed)

SampleID : CAL @ 250 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125269.D Sam Mult : 1 Vial# : 7 Qt On : 02/21/18 14:03
Acq On : 02/21/18 08:31 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.825	133	511549	252.2534	ug/l	81
69)	Chlorobenzene	6.789	112	1318092	246.3098	ug/l	94
71)	n-Butyl acrylate	7.054	55	1428876	317.1504	ug/l	94
72)	n-Amyl acetate	7.180	43	1232641	297.5831	ug/l	87
73)	Bromoform	7.300	173	531870	332.6251	ug/l	94
74)	Ethylbenzene	6.832	106	364352	254.6847	ug/l	83
75)	1,1,2,2-Tetrachloroethane	7.540	83	646824	273.3752	ug/l	94
77)	Styrene	7.150	104	1262326	280.6052	ug/l	100
78)	m&p-Xylenes	6.898	106	1219943	530.3859	ug/l	82
79)	o-Xylene	7.144	106	650541	264.9715	ug/l	76
80)	trans-1,4-Dichloro-2-b...	7.570	53	313462	301.4956	ug/l	60
81)	1,3-Dichlorobenzene	8.171	146	764141	290.8750	ug/l	91
82)	1,4-Dichlorobenzene	8.225	146	777899	274.7382	ug/l	95
83)	1,2-Dichlorobenzene	8.483	146	779850	288.3761	ug/l	92
84)	Isopropylbenzene	7.360	105	1391619	293.2613	ug/l	95
85)	Cyclohexanone	7.456	55	124562	1091.2186	ug/l	90
86)	Camphene	7.552	93	421776	293.1198	ug/l	100
87)	1,2,3-Trichloropropane	7.582	75	850308	276.9740	ug/l	96
88)	2-Chlorotoluene	7.697	91	742043	251.8549	ug/l	96
89)	p-Ethyltoluene	7.678	105	1486040	302.3774	ug/l	76
90)	4-Chlorotoluene	7.763	91	817495	265.5793	ug/l	93
91)	n-Propylbenzene	7.612	91	1339687	278.5551	ug/l	94
92)	Bromobenzene	7.594	77	1318685	271.0357	ug/l	90
93)	1,3,5-Trimethylbenzene	7.709	105	756846	220.1037	ug/l	77
94)	Butyl methacrylate	7.709	41	931222	275.5745	ug/l	86
95)	t-Butylbenzene	7.925	119	967247	302.4117	ug/l	87
96)	1,2,4-Trimethylbenzene	7.955	105	1169542	287.1072	ug/l	90
97)	sec-Butylbenzene	8.063	105	1079038	316.9995	ug/l	100
98)	4-Isopropyltoluene	8.141	119	959854	317.3486	ug/l	95
99)	n-Butylbenzene	8.405	91	1000800	304.1050	ug/l	90
100)	p-Diethylbenzene	8.387	119	592451	318.9758	ug/l	93
101)	1,2,4,5-Tetramethylben...	8.904	119	905790	337.9265	ug/l	93
102)	1,2-Dibromo-3-Chloropr...	8.988	157	164660	342.4030	ug/l	76
103)	Camphor	9.475	95	679050	2902.0709	ug/l	92
104)	Hexachlorobutadiene	9.619	225	293574	221.8408	ug/l	96
105)	1,2,4-Trichlorobenzene	9.535	180	387298	292.9917	ug/l	97
106)	1,2,3-Trichlorobenzene	9.877	180	344028	287.0492	ug/l	96
107)	Naphthalene	9.715	128	1043243	308.3008	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 3M125269.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 250 PPB
Data File: 3M125269.D
Acq On : 02/21/18 08:31
Operator : SG
Sam Mult : 1 Vial# : 7
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 02/21/18 14:03
Qt Upd On: 02/21/18 13:51
Abundance
Time-->

8022222 0120

SampleID : CAL @ 500 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125267.D Sam Mult : 1 Vial# : 5 Qt On : 02/21/18 13:57
Acq On : 02/21/18 07:58 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.940	96	285517	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.772	117	216249	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	8.207	152	83955	30.00	ug/l	-0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.519	111	82310	28.80	ug/l	-0.02
Spiked Amount 30.000			Recovery = 96.00%			
39) 1,2-Dichloroethane-d4	4.741	67	55087	28.65	ug/l	-0.01
Spiked Amount 30.000			Recovery = 95.50%			
66) Toluene-d8	5.895	98	286505	33.96	ug/l	-0.02
Spiked Amount 30.000			Recovery = 113.20%			
76) Bromofluorobenzene	7.481	174	99022	35.20	ug/l	-0.01
Spiked Amount 30.000			Recovery = 117.33%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.596	51	961293m	223.7732	ug/l	
6) Dichlorodifluoromethane	1.563	85	343716	139.1310	ug/l	90
7) Chloromethane	1.763	50	720150	236.4451	ug/l	82
8) Bromomethane	2.080	94	179105m	134.4629	ug/l	
9) Vinyl Chloride	1.813	62	811234	322.9466	ug/l	96
10) Chloroethane	2.164	64	346605	204.3985	ug/l	97
11) Trichlorofluoromethane	2.387	101	1507307	384.5447	ug/l	85
12) Ethyl ether	2.621	59	987751	417.0298	ug/l	82
13) Furan	2.657	39	2246414	382.9050	ug/l	95
14) 1,1,2-Trichloro-1,2,2-...	2.801	101	598158	372.9478	ug/l	98
15) Methylene Chloride	3.210	84	1072000	410.1441	ug/l	97
16) Acrolein	2.741	56	1013052	2056.2068	ug/l	96
17) Acrylonitrile	3.426	53	407588	389.4685	ug/l	99
18) Iodomethane	2.951	142	1301743	488.5319	ug/l	96
19) Acetone	2.867	43	2013579	1937.7051	ug/l	94
20) Carbon Disulfide	3.011	76	2666252	454.7282	ug/l	100
21) t-Butyl Alcohol	3.300	59	702881	2288.7354	ug/l	81
22) n-Hexane	3.648	57	472603	426.7287	ug/l	75
23) Di-isopropyl-ether	3.810	45	3309300	386.6246	ug/l	96
24) 1,1-Dichloroethene	2.813	61	1539191	423.2461	ug/l	95
25) Methyl Acetate	3.119	43	1552711	395.8272	ug/l	100
26) Methyl-t-butyl ether	3.426	73	2802658	360.2492	ug/l	64
27) 1,1-Dichloroethane	3.792	63	1817562	419.4214	ug/l	95
28) trans-1,2-Dichloroethene	3.444	96	929711	405.1520	ug/l	92
29) Ethyl-t-butyl ether	4.075	59	3432002	395.6802	ug/l	97
30) cis-1,2-Dichloroethene	4.207	61	1876283	380.1905	ug/l	82
31) Bromochloromethane	4.369	49	1240105m	441.4764	ug/l	
32) 2,2-Dichloropropane	4.213	77	1447675	436.2915	ug/l	92
33) Ethyl acetate	4.231	43	1400310m	415.1741	ug/l	
34) 1,4-Dioxane	5.384	88	600880	18954.1653	ug/l	84
35) 1,1-Dichloropropene	4.639	75	1207725	363.5554	ug/l	96
36) Chloroform	4.417	83	2066760	397.9575	ug/l	89
38) Cyclohexane	4.579	56	775211	407.0967	ug/l	98
40) 1,2-Dichloroethane	4.789	62	1606411	315.0917	ug/l	96
41) 2-Butanone	4.219	43	498822m	320.7049	ug/l	
42) 1,1,1-Trichloroethane	4.543	97	1767814	427.3779	ug/l	95
43) Carbon Tetrachloride	4.651	117	1236813	365.4550	ug/l	92
44) Vinyl Acetate	3.810	43	2323280	387.2784	ug/l	100
45) Bromodichloromethane	5.468	83	1673168	416.5420	ug/l	96
46) Methylcyclohexane	5.282	83	593799	417.6249	ug/l	95
47) Dibromomethane	5.390	174	826931	402.7860	ug/l	94
48) 1,2-Dichloropropane	5.312	63	962070	398.4877	ug/l	94
49) Trichloroethene	5.162	130	1027854	382.6305	ug/l	89
50) Benzene	4.771	78	2863120	317.7118	ug/l	100
51) tert-Amyl methyl ether	4.819	73	2801198	353.1461	ug/l	73
53) Iso-propylacetate	4.777	43	2378359	414.4596	ug/l	95
54) Methyl methacrylate	5.336	41	1579985	476.5940	ug/l	94
55) Dibromochloromethane	6.423	129	1237699	485.9706	ug/l	91
56) 2-Chloroethylvinylether	5.618	63	758894	513.2470	ug/l	86
57) cis-1,3-Dichloropropene	5.727	75	1772103	533.7989	ug/l	94
58) trans-1,3-Dichloropropene	6.051	75	1650425	499.0080	ug/l	93
59) Ethyl methacrylate	6.069	41	1459579	460.9194	ug/l	81
60) 1,1,2-Trichloroethane	6.171	97	921915	445.6804	ug/l	91
61) 1,2-Dibromoethane	6.507	107	1052685	457.9776	ug/l	93
62) 1,3-Dichloropropane	6.279	76	1466170	412.0792	ug/l	100
63) 4-Methyl-2-Pentanone	5.805	43	1335014	490.6981	ug/l	89
64) 2-Hexanone	6.291	43	887831	443.0690	ug/l	89
65) Tetrachloroethene	6.267	164	548518	408.4722	ug/l	99
67) Toluene	5.937	92	2012628	440.0880	ug/l	95

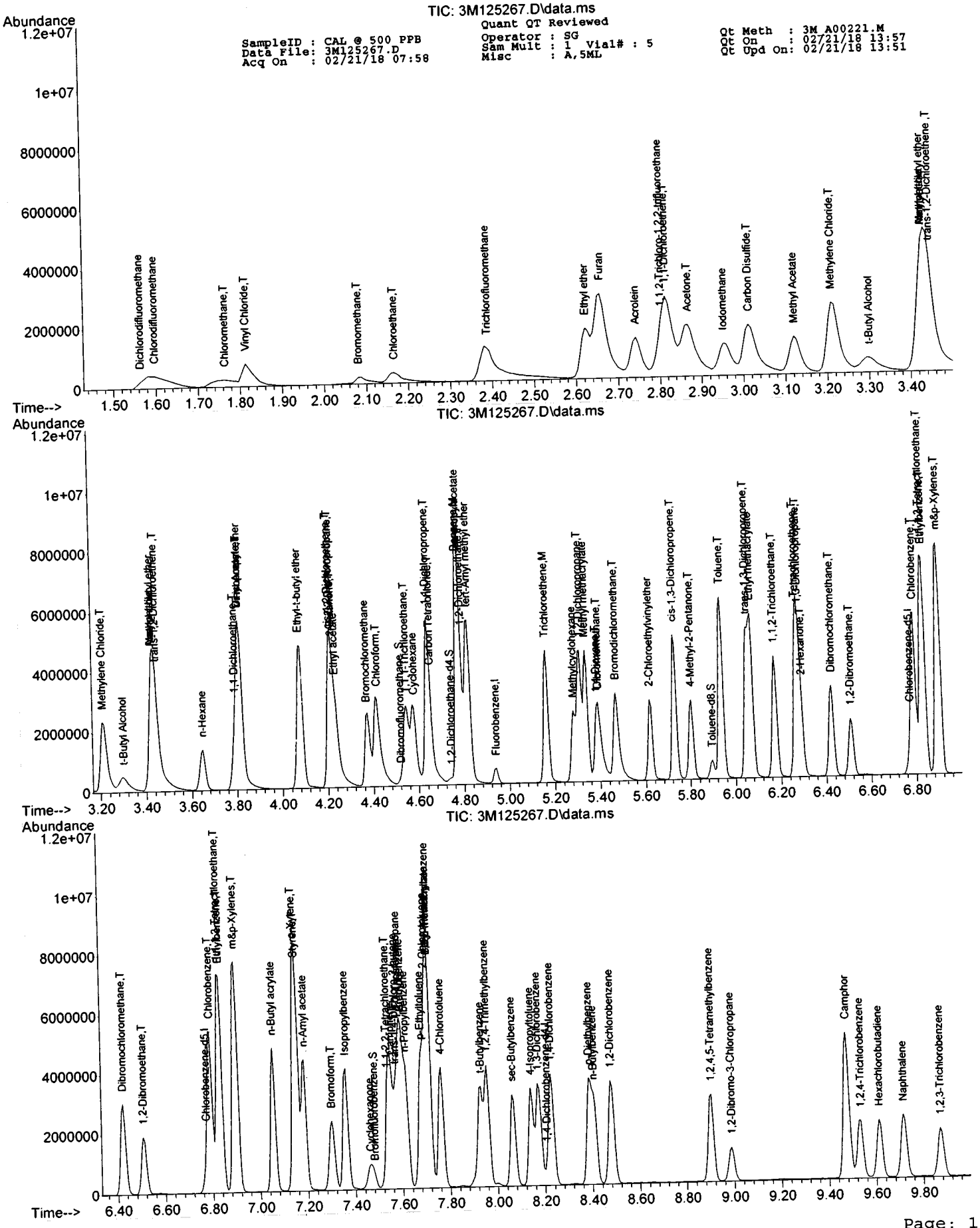
Quantitation Report (QT Reviewed)

SampleID : CAL @ 500 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125267.D Sam Mult : 1 Vial# : 5 Qt On : 02/21/18 13:57
Acq On : 02/21/18 07:58 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.826	133	793472	401.9062	ug/l	83
69)	Chlorobenzene	6.790	112	2233218	428.6574	ug/l	93
71)	n-Butyl acrylate	7.054	55	2431213	592.9759	ug/l	94
72)	n-Amyl acetate	7.186	43	2088485	554.0467	ug/l	85
73)	Bromoform	7.300	173	896821	616.3092	ug/l	96
74)	Ethylbenzene	6.832	106	531096	407.9417	ug/l	81
75)	1,1,2,2-Tetrachloroethane	7.535	83	1103509	512.4980	ug/l	92
77)	Styrene	7.150	104	1939160	473.6759	ug/l	99
78)	m&p-Xylenes	6.898	106	1911020	912.9795	ug/l	81
79)	o-Xylene	7.144	106	1023663	458.1682	ug/l	72
80)	trans-1,4-Dichloro-2-b...	7.571	53	519637	549.2113	ug/l	59
81)	1,3-Dichlorobenzene	8.171	146	1260172	527.1159	ug/l	92
82)	1,4-Dichlorobenzene	8.225	146	1282553	497.7538	ug/l	94
83)	1,2-Dichlorobenzene	8.478	146	1295264	526.3199	ug/l	93
84)	Isopropylbenzene	7.360	105	2280225	528.0262	ug/l	95
85)	Cyclohexanone	7.463	55	235183	2263.9950	ug/l	93
86)	Camphene	7.553	93	670734	512.2205	ug/l	99
87)	1,2,3-Trichloropropane	7.583	75	1362343	487.6323	ug/l	94
88)	2-Chlorotoluene	7.697	91	1095649	408.6355	ug/l	96
89)	p-Ethyltoluene	7.679	105	2328423	520.6238	ug/l	78
90)	4-Chlorotoluene	7.763	91	1346421	480.6550	ug/l	94
91)	n-Propylbenzene	7.613	91	2205317	503.8743	ug/l	93
92)	Bromobenzene	7.595	77	2078585	469.4578	ug/l	90
93)	1,3,5-Trimethylbenzene	7.709	105	1116142	356.6832	ug/l	76
94)	Butyl methacrylate	7.709	41	1489541	484.3750	ug/l	84
95)	t-Butylbenzene	7.931	119	1604549	551.2614	ug/l	88
96)	1,2,4-Trimethylbenzene	7.955	105	1935660	522.1565	ug/l	90
97)	sec-Butylbenzene	8.063	105	1794021	579.1522	ug/l	97
98)	4-Isopropyltoluene	8.141	119	1597858	580.5144	ug/l	95
99)	n-Butylbenzene	8.406	91	1621573	541.4472	ug/l	91
100)	p-Diethylbenzene	8.388	119	998637	590.8216	ug/l	91
101)	1,2,4,5-Tetramethylben...	8.904	119	1513254	620.3688	ug/l	92
102)	1,2-Dibromo-3-Chloropr...	8.988	157	284753	650.6706	ug/l	79
103)	Camphor	9.475	95	1129776	5305.6911	ug/l	92
104)	Hexachlorobutadiene	9.613	225	455332	378.0901	ug/l	96
105)	1,2,4-Trichlorobenzene	9.535	180	620844	516.1024	ug/l	97
106)	1,2,3-Trichlorobenzene	9.871	180	530391	486.2975	ug/l	96
107)	Naphthalene	9.715	128	1627809	528.6107	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 3M125267.D\data.ms
SampleID : CAL @ 500 PPB
Data File: 3M125267.D
Acq On : 02/21/18 07:58
Quant QT Reviewed
Operator : SG
Sam Mult : 1 Vial# : 5
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 02/21/18 13:57
Qt Upd On: 02/21/18 13:51
Abundance
Time-->
Dichlorodifluoromethane
Chlorodifluoromethane
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
trans-1,2-Dichloroethene,T
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,T
Cyclohexane
Carbon Tetrachloride,T
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene,T
Toluene-d8,S
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,T
m&p-Xylenes,T
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone,S
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene

Quantitation Report (QT Reviewed)

8022222 0123

SampleID : CAL @ 1 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125282.D Sam Mult : 1 Vial# : 17 Qt On : 02/21/18 14:17
Acq On : 02/21/18 12:09 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
4) Fluorobenzene	4.939	96	314772	30.00	ug/l		-0.02
52) Chlorobenzene-d5	6.771	117	238770	30.00	ug/l		-0.02
70) 1,4-Dichlorobenzene-d4	8.213	152	107685	30.00	ug/l		-0.01
System Monitoring Compounds							
37) Dibromofluoromethane	4.525	111	90556	28.74	ug/l		-0.01
Spiked Amount 30.000			Recovery = 95.80%				
39) 1,2-Dichloroethane-d4	4.741	67	66321	31.29	ug/l		-0.01
Spiked Amount 30.000			Recovery = 104.30%				
66) Toluene-d8	5.894	98	301916	32.41	ug/l		-0.02
Spiked Amount 30.000			Recovery = 108.03%				
76) Bromofluorobenzene	7.480	174	114219	31.65	ug/l		-0.01
Spiked Amount 30.000			Recovery = 105.50%				
Target Compounds							Qvalue
5) Chlorodifluoromethane	1.597	51	4673	0.9867	ug/l		31
6) Dichlorodifluoromethane	1.580	85	376	0.1381	ug/l	#	35
7) Chloromethane	1.730	50	1066	0.3175	ug/l	#	31
8) Bromomethane	2.110	94	1634	1.1127	ug/l		76
9) Vinyl Chloride	1.830	62	1181	0.4265	ug/l		44
10) Chloroethane	2.200	64	1162	0.6216	ug/l		96
11) Trichlorofluoromethane	2.398	101	3102	0.7178	ug/l		65
12) Ethyl ether	2.620	59	1944	0.7445	ug/l		49
13) Furan	2.663	39	6942	1.0733	ug/l		87
14) 1,1,2-Trichloro-1,2,2-...	2.831	101	901	0.5096	ug/l	#	39
15) Methylene Chloride	3.221	84	3774	1.3097	ug/l		77
16) Acrolein	2.753	56	1705	3.1390	ug/l		72
17) Acrylonitrile	3.425	53	620m	0.5374	ug/l		
18) Iodomethane	2.963	142	2659	0.9052	ug/l		59
19) Acetone	2.885	43	5419	4.7301	ug/l		76
20) Carbon Disulfide	3.023	76	4305	0.6660	ug/l		100
21) t-Butyl Alcohol	3.287	59	1296	3.8278	ug/l		7
22) n-Hexane	3.648	57	1293	1.0590	ug/l	#	62
23) Di-isopropyl-ether	3.816	45	10256	1.0868	ug/l		81
24) 1,1-Dichloroethene	2.819	61	4260	1.0625	ug/l		80
25) Methyl Acetate	3.125	43	3890	0.8995	ug/l		100
26) Methyl-t-butyl ether	3.431	73	9390	1.0948	ug/l		58
27) 1,1-Dichloroethane	3.792	63	5222	1.0930	ug/l		81
28) trans-1,2-Dichloroethene	3.443	96	2319	0.9167	ug/l		70
29) Ethyl-t-butyl ether	4.080	59	10693	1.1182	ug/l		95
30) cis-1,2-Dichloroethene	4.218	61	5026	0.9238	ug/l		96
31) Bromochloromethane	4.375	49	2148	0.6936	ug/l		78
32) 2,2-Dichloropropane	4.218	77	3005	0.8215	ug/l		80
33) Ethyl acetate	4.236	43	4155m	1.1174	ug/l		
34) 1,4-Dioxane	5.390	88	1872	53.5622	ug/l		75
35) 1,1-Dichloropropene	4.639	75	4272	1.1665	ug/l		91
36) Chloroform	4.417	83	5171	0.9031	ug/l		72
38) Cyclohexane	4.573	56	1901	0.9055	ug/l		87
40) 1,2-Dichloroethane	4.795	62	5809	1.0335	ug/l		80
41) 2-Butanone	4.218	43	1027m	0.5989	ug/l		
42) 1,1,1-Trichloroethane	4.549	97	4339	0.9515	ug/l		52
43) Carbon Tetrachloride	4.645	117	3042	0.8153	ug/l		95
44) Vinyl Acetate	3.816	43	6499	0.9827	ug/l		100
45) Bromodichloromethane	5.474	83	3092	0.6982	ug/l		68
46) Methylcyclohexane	5.288	83	1899	1.2115	ug/l		80
47) Dibromomethane	5.390	174	2630	1.1620	ug/l	#	52
48) 1,2-Dichloropropane	5.318	63	2680	1.0069	ug/l		95
49) Trichloroethene	5.167	130	2857	0.9647	ug/l		88
50) Benzene	4.783	78	10775	1.0845	ug/l		100
51) tert-Amyl methyl ether	4.819	73	10708	1.2245	ug/l		79
53) Iso-propylacetate	4.777	43	8184	1.2916	ug/l		92
54) Methyl methacrylate	5.336	41	3834	1.0474	ug/l		79
55) Dibromochloromethane	6.423	129	1782	0.6337	ug/l		97
56) 2-Chloroethylvinylether	5.624	63	2098	1.2851	ug/l		94
57) cis-1,3-Dichloropropene	5.732	75	3417	0.9322	ug/l		65
58) trans-1,3-Dichloropropene	6.050	75	3483	0.9538	ug/l		79
59) Ethyl methacrylate	6.068	41	4205	1.2026	ug/l		88
60) 1,1,2-Trichloroethane	6.177	97	2910	1.2741	ug/l		73
61) 1,2-Dibromoethane	6.507	107	3145	1.2392	ug/l		71
62) 1,3-Dichloropropane	6.279	76	5381	1.3697	ug/l		90
63) 4-Methyl-2-Pentanone	5.804	43	4330	1.4414	ug/l		96
64) 2-Hexanone	6.291	43	2590	1.1706	ug/l		76
65) Tetrachloroethene	6.267	164	1993	1.3442	ug/l		59
67) Toluene	5.936	92	7625	1.5100	ug/l		67

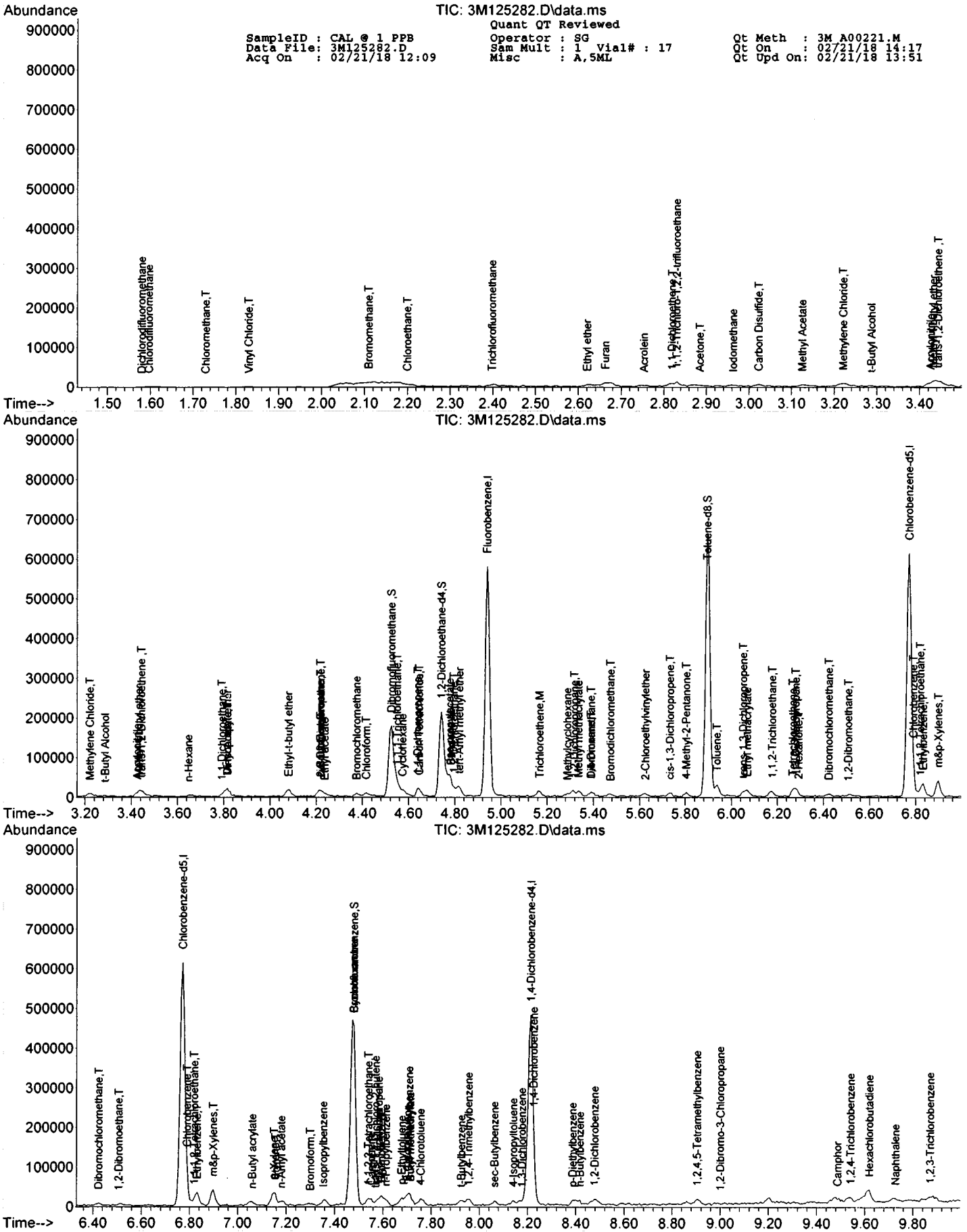
Quantitation Report (QT Reviewed)

SampleID : CAL @ 1 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125282.D Sam Mult : 1 Vial# : 17 Qt On : 02/21/18 14:17
Acq On : 02/21/18 12:09 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.819	133	2326	1.0670	ug/l		72
69)	Chlorobenzene	6.789	112	7290	1.2673	ug/l		88
71)	n-Butyl acrylate	7.060	55	5221	0.9928	ug/l		90
72)	n-Amyl acetate	7.180	43	4933	1.0203	ug/l		84
73)	Bromoform	7.300	173	1444	0.7737	ug/l		73
74)	Ethylbenzene	6.831	106	2165	1.2965	ug/l		93
75)	1,1,2,2-Tetrachloroethane	7.540	83	3767	1.3640	ug/l		76
77)	Styrene	7.156	104	6914	1.3167	ug/l		83
78)	m&p-Xylenes	6.897	106	7254	2.7019	ug/l		97
79)	o-Xylene	7.150	106	3737	1.3040	ug/l		65
80)	trans-1,4-Dichloro-2-b...	7.570	53	884	0.7284	ug/l		83
81)	1,3-Dichlorobenzene	8.177	146	4019	1.3106	ug/l	#	78
82)	1,4-Dichlorobenzene	8.225	146	4513	1.3655	ug/l		73
83)	1,2-Dichlorobenzene	8.477	146	4490	1.4224	ug/l		93
84)	Isopropylbenzene	7.354	105	6327	1.1423	ug/l		85
85)	Cyclohexanone	7.480	55	506m	3.7976	ug/l		
86)	Camphene	7.552	93	2188	1.3027	ug/l		90
87)	1,2,3-Trichloropropane	7.582	75	4238m	1.1827	ug/l		
88)	2-Chlorotoluene	7.702	91	4828m	1.4039	ug/l		
89)	p-Ethyltoluene	7.678	105	5242m	0.9138	ug/l		
90)	4-Chlorotoluene	7.756	91	4666	1.2986	ug/l		83
91)	n-Propylbenzene	7.612	91	6407	1.1413	ug/l		93
92)	Bromobenzene	7.594	77	6948	1.2234	ug/l		85
93)	1,3,5-Trimethylbenzene	7.708	105	4137	1.0307	ug/l		53
94)	Butyl methacrylate	7.714	41	4902	1.2428	ug/l		65
95)	t-Butylbenzene	7.925	119	4495m	1.2040	ug/l		
96)	1,2,4-Trimethylbenzene	7.955	105	5953	1.2520	ug/l		78
97)	sec-Butylbenzene	8.063	105	5495m	1.3830	ug/l		
98)	4-Isopropyltoluene	8.141	119	4163	1.1792	ug/l		99
99)	n-Butylbenzene	8.417	91	5810	1.5125	ug/l		85
100)	p-Diethylbenzene	8.387	119	4012	1.8506	ug/l	#	2
101)	1,2,4,5-Tetramethylben...	8.904	119	5561	1.7774	ug/l		88
102)	1,2-Dibromo-3-Chloropr...	9.000	157	354m	0.6306	ug/l		
103)	Camphor	9.486	95	1581m	5.7886	ug/l		
104)	Hexachlorobutadiene	9.619	225	1891m	1.2242	ug/l		
105)	1,2,4-Trichlorobenzene	9.540	180	3025	1.9605	ug/l		88
106)	1,2,3-Trichlorobenzene	9.871	180	2257m	1.6134	ug/l		
107)	Naphthalene	9.727	128	5892	1.4917	ug/l		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125282.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 1 PPB
Data File: 3M125282.D
Acq On : 02/21/18 12:09
Operator : SG
Sam Mult : 1 Vial# : 17
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 02/21/18 14:17
Qt Upd On: 02/21/18 13:51
Time-->

8022222 0126

Sample ID : CAL @ 0.5 PPB
Data File: 3M125281.D
Acq On : 02/21/18 11:52
Operator : SG
Sam Mult : 1 Vial# : 16
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 02/21/18 14:13
Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.941	96	304201	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.773	117	229725	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	8.209	152	96407	30.00	ug/l	-0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.526	111	83826	27.53	ug/l	-0.01
Spiked Amount 30.000			Recovery = 91.77%			
39) 1,2-Dichloroethane-d4	4.743	67	63938	31.21	ug/l	-0.01
Spiked Amount 30.000			Recovery = 104.03%			
66) Toluene-d8	5.896	98	296347	33.07	ug/l	-0.02
Spiked Amount 30.000			Recovery = 110.23%			
76) Bromofluorobenzene	0.000	174	0d	0.00	ug/l	
Spiked Amount 30.000			Recovery = 0.00%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	0.000		0	N.D. d		
6) Dichlorodifluoromethane	0.000		0	N.D.		
7) Chloromethane	0.000		0	N.D.		
8) Bromomethane	0.000		0	N.D. d		
9) Vinyl Chloride	0.000		0	N.D. d		
10) Chloroethane	0.000		0	N.D. d		
11) Trichlorofluoromethane	0.000		0	N.D. d		
12) Ethyl ether	0.000		0	N.D. d		
13) Furan	0.000		0	N.D. d		
14) 1,1,2-Trichloro-1,2,2-...	0.000		0	N.D. d		
15) Methylene Chloride	0.000		0	N.D. d		
16) Acrolein	0.000		0	N.D. d		
17) Acrylonitrile	0.000		0	N.D. d		
18) Iodomethane	0.000		0	N.D. d		
19) Acetone	0.000		0	N.D. d		
20) Carbon Disulfide	0.000		0	N.D. d		
21) t-Butyl Alcohol	0.000		0	N.D. d		
22) n-Hexane	0.000		0	N.D. d		
23) Di-isopropyl-ether	0.000		0	N.D. d		
24) 1,1-Dichloroethene	0.000		0	N.D. d		
25) Methyl Acetate	0.000		0	N.D. d		
26) Methyl-t-butyl ether	3.439	73	4282	0.5166	ug/l	60
27) 1,1-Dichloroethane	0.000		0	N.D. d		
28) trans-1,2-Dichloroethene	0.000		0	N.D. d		
29) Ethyl-t-butyl ether	0.000		0	N.D. d		
30) cis-1,2-Dichloroethene	0.000		0	N.D. d		
31) Bromochloromethane	0.000		0	N.D. d		
32) 2,2-Dichloropropane	0.000		0	N.D. d		
33) Ethyl acetate	0.000		0	N.D. d		
34) 1,4-Dioxane	0.000		0	N.D. d		
35) 1,1-Dichloropropene	0.000		0	N.D. d		
36) Chloroform	0.000		0	N.D. d		
38) Cyclohexane	0.000		0	N.D. d		
40) 1,2-Dichloroethane	4.785	62	2288	0.4212	ug/l	78
41) 2-Butanone	0.000		0	N.D. d		
42) 1,1,1-Trichloroethane	0.000		0	N.D. d		
43) Carbon Tetrachloride	0.000		0	N.D. d		
44) Vinyl Acetate	0.000		0	N.D. d		
45) Bromodichloromethane	0.000		0	N.D. d		
46) Methylcyclohexane	0.000		0	N.D. d		
47) Dibromomethane	0.000		0	N.D. d		
48) 1,2-Dichloropropane	0.000		0	N.D. d		
49) Trichloroethene	0.000		0	N.D. d		
50) Benzene	4.779	78	5613	0.5846	ug/l	100
51) tert-Amyl methyl ether	0.000		0	N.D. d		
53) Iso-propylacetate	0.000		0	N.D. d		
54) Methyl methacrylate	0.000		0	N.D. d		
55) Dibromochloromethane	0.000		0	N.D. d		
56) 2-Chloroethylvinylether	0.000		0	N.D. d		
57) cis-1,3-Dichloropropene	0.000		0	N.D. d		
58) trans-1,3-Dichloropropene	0.000		0	N.D. d		
59) Ethyl methacrylate	0.000		0	N.D. d		
60) 1,1,2-Trichloroethane	0.000		0	N.D. d		
61) 1,2-Dibromoethane	0.000		0	N.D. d		
62) 1,3-Dichloropropane	0.000		0	N.D. d		
63) 4-Methyl-2-Pentanone	0.000		0	N.D. d		
64) 2-Hexanone	0.000		0	N.D. d		
65) Tetrachloroethene	0.000		0	N.D. d		
67) Toluene	0.000		0	N.D. d		

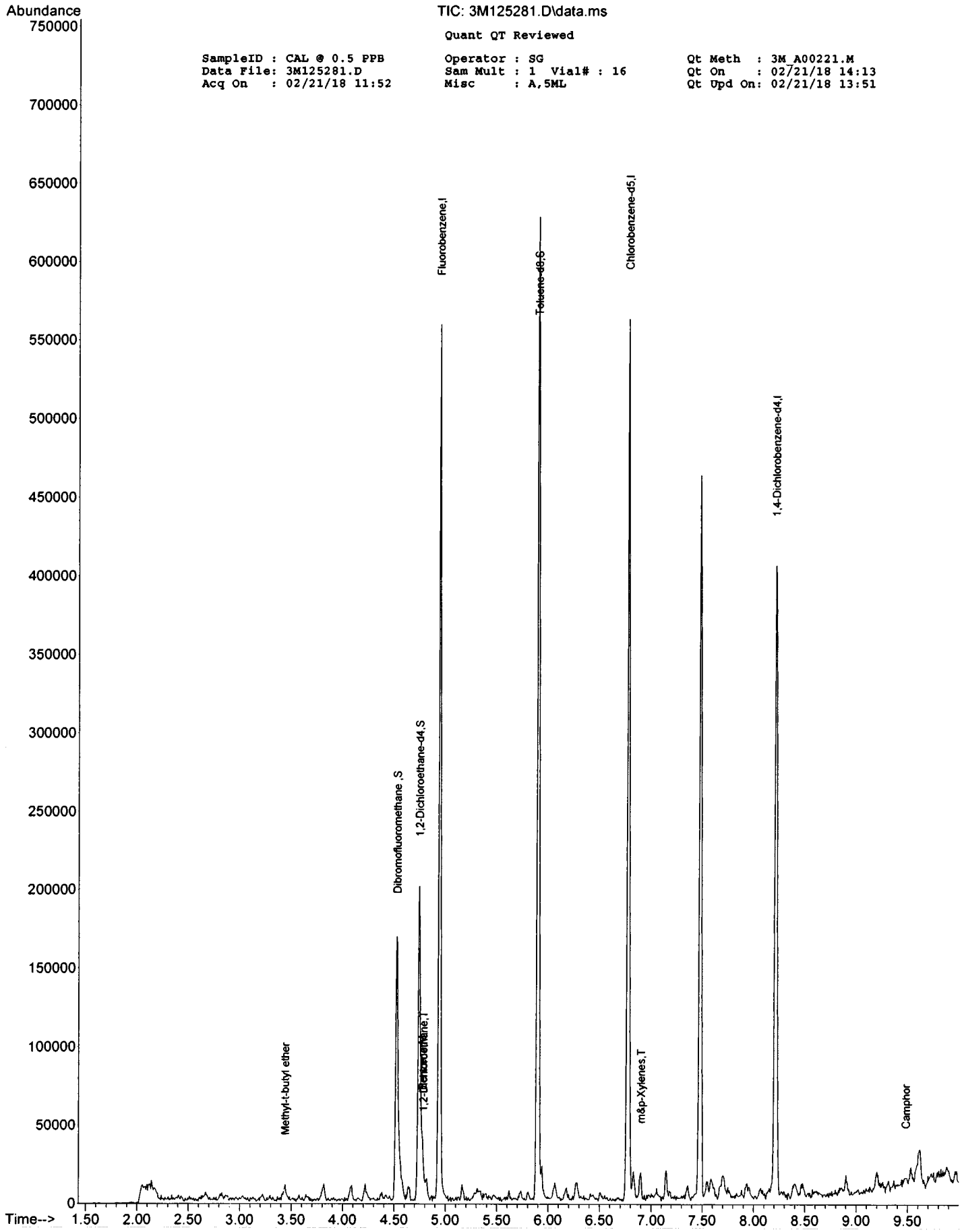
Quantitation Report (QT Reviewed)

SampleID : CAL @ 0.5 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125281.D Sam Mult : 1 Vial# : 16 Qt On : 02/21/18 14:13
Acq On : 02/21/18 11:52 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	0.000		0	N.D. d		
69)	Chlorobenzene	0.000		0	N.D. d		
71)	n-Butyl acrylate	0.000		0	N.D. d		
72)	n-Amyl acetate	0.000		0	N.D. d		
73)	Bromoform	0.000		0	N.D. d		
74)	Ethylbenzene	0.000		0	N.D. d		
75)	1,1,2,2-Tetrachloroethane	0.000		0	N.D. d		
77)	Styrene	0.000		0	N.D. d		
78)	m&p-Xylenes	6.899	106	3577	1.4882	ug/l	69
79)	o-Xylene	0.000		0	N.D. d		
80)	trans-1,4-Dichloro-2-b...	0.000		0	N.D. d		
81)	1,3-Dichlorobenzene	0.000		0	N.D. d		
82)	1,4-Dichlorobenzene	0.000		0	N.D. d		
83)	1,2-Dichlorobenzene	0.000		0	N.D. d		
84)	Isopropylbenzene	0.000		0	N.D. d		
85)	Cyclohexanone	0.000		0	N.D. d		
86)	Camphene	0.000		0	N.D. d		
87)	1,2,3-Trichloropropane	0.000		0	N.D. d		
88)	2-Chlorotoluene	0.000		0	N.D. d		
89)	p-Ethyltoluene	0.000		0	N.D. d		
90)	4-Chlorotoluene	0.000		0	N.D. d		
91)	n-Propylbenzene	0.000		0	N.D. d		
92)	Bromobenzene	0.000		0	N.D. d		
93)	1,3,5-Trimethylbenzene	0.000		0	N.D. d		
94)	Butyl methacrylate	0.000		0	N.D. d		
95)	t-Butylbenzene	0.000		0	N.D. d		
96)	1,2,4-Trimethylbenzene	0.000		0	N.D. d		
97)	sec-Butylbenzene	0.000		0	N.D. d		
98)	4-Isopropyltoluene	0.000		0	N.D. d		
99)	n-Butylbenzene	0.000		0	N.D. d		
100)	p-Diethylbenzene	0.000		0	N.D. d		
101)	1,2,4,5-Tetramethylben...	0.000		0	N.D. d		
102)	1,2-Dibromo-3-Chloropr...	0.000		0	N.D. d		
103)	Camphor	9.482	95	724m	2.9609	ug/l	
104)	Hexachlorobutadiene	0.000		0	N.D. d		
105)	1,2,4-Trichlorobenzene	0.000		0	N.D. d		
106)	1,2,3-Trichlorobenzene	0.000		0	N.D. d		
107)	Naphthalene	0.000		0	N.D. d		

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125281.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 0.5 PPB
Data File: 3M125281.D
Acq On : 02/21/18 11:52
Operator : SG
Sam Mult : 1 Vial# : 16
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 02/21/18 14:13
Qt Upd On: 02/21/18 13:51
Methyl-t-butyl ether
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
m&p-Xylenes,T
1,4-Dichlorobenzene-d4,I
Camphor
Time-->

8022222 0129

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8M12776.D	CAL @ 20 PPB	02/28/18 17:26	2	8M12774.D	CAL @ 5 PPB	02/28/18 16:51
3	8M12775.D	CAL @ 10 PPB	02/28/18 17:09	4	8M12783.D	CAL @ 50 PPB	02/28/18 19:31
5	8M12781.D	CAL @ 100 PPB	02/28/18 18:56	6	8M12779.D	CAL @ 250 PPB	02/28/18 18:20
7	8M12777.D	CAL @ 500 PPB	02/28/18 17:44	8	8M12773.D	CAL @ 1 PPB	02/28/18 16:33
9	8M12772.D	CAL @ 0.5 PPB	02/28/18 16:15				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.1858	0.1683	0.1936	0.1910	0.1995	0.1940	0.2078	0.2144	-----	0.194	2.04	0.999	1.00	7.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dichlorodifluorometha	1	0	Avg	0.1660	0.1428	0.1542	0.1542	0.1662	0.1672	0.1785	0.1204	-----	0.156	2.03	0.999	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloromethane	1	0	Avg	0.1741	0.1713	0.1708	0.1965	0.1776	0.1746	0.2003	0.1610	-----	0.178	2.20	0.996	0.999	7.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromomethane	1	0	Avg	0.1353	0.1382	0.1387	0.1352	0.1361	0.1427	0.1488	0.1425	-----	0.140	2.56	0.999	1.00	3.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Chloride	1	0	Avg	0.1692	0.1530	0.1620	0.1633	0.1690	0.1696	0.1762	0.1371	-----	0.162	2.28	1.00	1.00	7.6	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroethane	1	0	Avg	0.1261	0.1210	0.1241	0.1221	0.1237	0.1233	0.1266	0.1005	-----	0.121	2.63	1.00	1.00	7.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichlorofluoromethan	1	0	Avg	0.2806	0.2494	0.2749	0.2652	0.2786	0.2797	0.2905	0.2397	-----	0.270	2.83	1.00	1.00	6.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl ether	1	0	Avg	0.1476	0.1429	0.1482	0.1467	0.1608	0.1638	0.1513	0.1275	-----	0.149	3.04	0.998	1.00	7.5	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Furan	1	0	Avg	0.2333	0.2295	0.2329	0.2235	0.2257	0.2236	0.2247	0.2229	-----	0.227	3.08	1.00	1.00	1.9	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.1570	0.1289	0.1536	0.1483	0.1581	0.1576	0.1602	0.1311	-----	0.149	3.22	1.00	1.00	8.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methylene Chloride	1	0	Avg	0.2001	0.1982	0.1993	0.1983	0.2029	0.2036	0.2000	0.2012	-----	0.200	3.60	1.00	1.00	1.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acrolein	1	0	Avg	0.0365	0.0345	0.0344	0.0359	0.0372	0.0372	0.0370	0.0314	-----	0.0356	3.14	1.00	1.00	5.6		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Acrylonitrile	1	0	Avg	0.0657	0.0590	0.0599	0.0651	0.0660	0.0661	0.0665	0.0409	-----	0.0612	3.78	1.00	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iodomethane	1	0	Avg	0.1816	0.1449	0.1680	0.1913	0.2083	0.2164	-----	0.1041		0.174	3.37	1.00	1.00	22		20.00	5.00	10.00	50.00	100.0	250.0		1.00	
Acetone	1	0	Avg	0.0466	0.0391	0.0398	0.0379	0.0377	0.0366	0.0358	0.0442	-----	0.0398	3.26	1.00	1.00	9.5	0.10 a	100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Carbon Disulfide	1	0	Avg	0.5087	0.4864	0.5014	0.5134	0.5278	0.5250	0.5202	0.5219	-----	0.513	3.43	1.00	1.00	2.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butyl Alcohol	1	0	Avg	0.0295	0.0286	0.0296	0.0293	0.0299	0.0305	0.0302	0.0255	-----	0.0292	3.04	1.00	1.00	5.5		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
n-Hexane	1	0	Avg	0.1801	0.1333	0.1629	0.1729	0.1938	0.1923	0.2000	0.1363	-----	0.171	4.02	1.00	1.00	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Di-isopropyl-ether	1	0	Avg	0.4584	0.4215	0.4438	0.4603	0.4688	0.4562	0.4532	0.3872	-----	0.444	4.16	1.00	1.00	6.1		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethene	1	0	Avg	0.2378	0.2216	0.2364	0.2281	0.2342	0.2303	0.2347	0.2153	-----	0.230	3.23	1.00	1.00	3.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl Acetate	1	0	Avg	0.1878	0.1747	0.1780	0.1824	0.1829	0.1787	0.1789	0.1628	-----	0.178	3.50	1.00	1.00	4.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl-t-butyl ether	1	0	Avg	0.4705	0.4365	0.4598	0.4807	0.4917	0.4913	0.4816	0.4230	0.4005	0.460	3.81	1.00	1.00	7.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
1,1-Dichloroethane	1	0	Avg	0.3223	0.3023	0.3114	0.3138	0.3196	0.3145	0.3176	0.2885	-----	0.311	4.14	1.00	1.00	3.5	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,2-Dichloroethe	1	0	Avg	0.1783	0.1685	0.1724	0.1713	0.1773	0.1752	0.1774	0.1646	-----	0.173	3.23	1.00	1.00	2.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl-t-butyl ether	1	0	Avg	0.4989	0.4555	0.4856	0.5100	0.5260	0.5161	0.5140	0.4249	-----	0.491	4.41	1.00	1.00	7.1	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,2-Dichloroethene	1	0	Avg	0.3049	0.2910	0.2994	0.2999	0.3063	0.2959	0.3004	0.2700	-----	0.296	4.53	1.00	1.00	3.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromochloromethane	1	0	Avg	0.1507	0.1405	0.1515	0.1479	0.1476	0.1399	0.1440	0.1406	-----	0.145	4.68	1.00	1.00	3.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2,2-Dichloropropane	1	0	Avg	0.2618	0.2507	0.2647	0.2408	0.2536	0.2485	0.2619	0.2467	-----	0.254	4.54	0.999	1.00	3.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl acetate	1	0	Avg	0.1915	0.1530	0.1434	0.1847	0.1644	0.1556	0.1730	0.1493	-----	0.164	4.55	0.997	0.999	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dioxane	1	0	Qua	0.0010	0.0004	0.0008	0.0007	0.0006	0.0008	0.0006	0.0005	-----	0.000710	5.57	0.974	0.992	26		1000.	250.0	500.0	2500.	5000.	1250	2500	50.00	
1,1-Dichloropropene	1	0	Avg	0.2685	0.2407	0.2586	0.2623	0.2723	0.2503	0.2700	0.2247	-----	0.256	4.93	0.999	0.999	6.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroform	1	0	Avg	0.3348	0.3208	0.3340	0.3290	0.3333	0.3202	0.3277	0.3177	-----	0.327	4.71	1.00	1.00	2.1	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromofluoromethan	1	0	Avg	0.2313	0.2351	0.2337	0.2398	0.2374	0.2319	0.2373	0.2332	0.2350	0.235	4.81	-1	-1	1.2		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.2717	0.2032	0.2499	0.2607	0.2847	0.2671	0.2902	0.2111	-----	0.255	4.88	0.999	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloroethane-d4	1	0	Avg	0.1170	0.1215	0.1174	0.1211	0.1170	0.1128	0.1183	0.1184	0.1242	0.119	5.01	-1	-1	2.8		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.2331	0.2282	0.2431	0.2235	0.2238	0.2020	0.2100	0.2197	0.2209	0.223	5.05	0.999	0.999	5.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
2-Butanone	1	0	Avg	0.0866	0.0932	0.0972	0.0837	0.1009	0.0961	0.0952	0.0761	-----	0.0912	4.53	1.00	1.00	9.1	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1-Trichloroethane	1	0	Avg	0.3119	0.2897	0.3105	0.3034	0.3131	0.2923	0.3149	0.2890	-----	0.303	4.84	0.999	1.00	3.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Carbon Tetrachloride	1	0	Avg	0.2560	0.2270	0.2531	0.2565	0.2685	0.2487	0.2698	0.2197	-----	0.250	4.94	0.999	1.00	7.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Acetate	1	0	Avg	0.0994	0.0742	0.0926	0.0935	0.1046	0.1023	0.1060	0.0760	-----	0.0936	4.02	1.00	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromodichloromethan	1	0	Avg	0.2394	0.2188	0.2364	0.2371	0.2446	0.2322	0.2439	0.2144	-----	0.233	5.65	0.999	1.00	4.8	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.82
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

8022222 0130

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_8

Level #	Data File:	Cal Identifier:	Analysis Date/Time	Level #	Data File:	Cal Identifier:	Analysis Date/Time
1	8M12776.D	CAL @ 20 PPB	02/28/18 17:26	2	8M12774.D	CAL @ 5 PPB	02/28/18 16:51
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7	8M12777.D	CAL @ 500 PPB	02/28/18 17:44	8	8M12773.D	CAL @ 1 PPB	02/28/18 16:33
9	8M12772.D	CAL @ 0.5 PPB	02/28/18 16:15				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.2970	0.2186	0.2761	0.2908	0.3195	0.3004	0.3200	0.2400	-----	0.283	5.50	0.999	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromomethane	1	0	Avg	0.1473	0.1383	0.1484	0.1472	0.1494	0.1434	0.1448	0.1357	-----	0.144	5.58	1.00	1.00	3.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloropropane	1	0	Avg	0.1883	0.1781	0.1836	0.1837	0.1894	0.1778	0.1856	0.1676	-----	0.182	5.51	1.00	1.00	3.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichloroethene	1	0	Avg	0.2357	0.2209	0.2323	0.2285	0.2358	0.2279	0.2361	0.2123	-----	0.229	5.39	1.00	1.00	3.7	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Benzene	1	0	Avg	0.8044	0.7708	0.7855	0.7898	0.8020	0.7430	0.7530	0.7284	0.7247	0.767	5.05	1.00	1.00	4.0	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
tert-Amyl methyl ether	1	0	Avg	0.5214	0.4624	0.5029	0.5306	0.5430	0.5193	0.5225	0.4125	-----	0.502	5.09	1.00	1.00	8.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iso-propylacetate	1	0	Avg	0.4399	0.4193	0.4190	0.4666	0.4677	0.3971	0.4035	0.3818	-----	0.424	5.04	0.999	0.999	7.4	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl methacrylate	1	0	Avg	0.2293	0.2056	0.2127	0.2398	0.2467	0.2338	0.2250	0.1923	-----	0.223	5.54	0.999	1.00	8.2	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromochloromethan	1	0	Avg	0.2897	0.2562	0.2837	0.3073	0.3141	0.3191	0.2952	0.2457	-----	0.289	6.48	0.998	1.00	9.1	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chloroethylvinylethe	1	0	Avg	0.1641	0.1449	0.1508	0.1831	0.1885	0.1893	0.1752	0.1225	-----	0.165	5.78	0.998	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,3-Dichloropropen	1	0	Avg	0.4030	0.3747	0.3839	0.4206	0.4276	0.4295	0.3976	0.3297	-----	0.396	5.88	0.999	1.00	8.4	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,3-Dichloroprop	1	0	Avg	0.3604	0.3255	0.3569	0.3821	0.3872	0.3843	0.3549	0.3100	-----	0.358	6.16	0.998	1.00	7.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl methacrylate	1	0	Avg	0.2101	0.1687	0.2002	0.2233	0.2287	0.2239	0.2056	0.1633	-----	0.203	6.18	0.998	1.00	12	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloroethane	1	0	Avg	0.2528	0.2323	0.2481	0.2596	0.2609	0.2576	0.2356	0.2275	-----	0.247	6.26	0.998	1.00	5.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromoethane	1	0	Avg	0.2629	0.2483	0.2557	0.2547	0.2624	0.2717	0.2556	0.2173	-----	0.254	6.56	0.999	1.00	6.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.4084	0.3750	0.4021	0.4171	0.4203	0.4117	0.3710	0.3584	-----	0.396	6.36	0.997	1.00	6.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Methyl-2-Pentanone	1	0	Avg	0.2204	0.1926	0.2032	0.2318	0.2355	0.2295	0.2168	0.1703	-----	0.213	5.94	0.999	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Hexanone	1	0	Avg	0.1545	0.1246	0.1431	0.1573	0.1639	0.1565	0.1467	0.1091	-----	0.145	6.37	0.999	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Tetrachloroethene	1	0	Avg	0.2579	0.2302	0.2524	0.2595	0.2680	0.2614	0.2390	0.2205	-----	0.249	6.36	0.998	1.00	6.8	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Toluene-d8	1	0	Avg	1.3078	1.3268	1.3018	1.3951	1.3744	1.3595	1.2631	1.2768	1.2685	1.32	6.03	-1	-1	3.6		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.7113	0.6850	0.6880	0.7354	0.7416	0.7167	0.6513	0.6710	-----	0.700	6.06	0.998	1.00	4.5	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.2615	0.2412	0.2622	0.2558	0.2793	0.2506	0.2510	0.2145	-----	0.252	6.84	0.999	1.00	7.5		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chlorobenzene	1	0	Avg	0.7868	0.7436	0.7820	0.7552	0.7749	0.7507	0.7261	0.7239	-----	0.755	6.81	1.00	1.00	3.2	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butyl acrylate	1	0	Avg	0.9704	0.7950	0.8774	0.9668	1.0346	0.9943	1.0368	0.6786	-----	0.919	7.04	1.00	1.00	14	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Amyl acetate	1	0	Avg	0.7484	0.5709	0.7091	0.6800	0.7997	0.7382	0.7267	0.5175	-----	0.686	7.16	0.999	1.00	14	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromoform	1	0	Avg	0.3971	0.3382	0.3807	0.4343	0.4237	0.4228	0.4239	0.3278	-----	0.394	7.24	1.00	1.00	10	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethylbenzene	1	0	Avg	0.6837	0.5888	0.6515	0.6502	0.7303	0.6022	0.6373	0.6236	-----	0.646	6.85	0.998	0.998	7.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.6601	0.6035	0.6598	0.6258	0.6458	0.6025	0.6378	0.6173	-----	0.632	7.45	0.999	1.00	3.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromofluorobenzene	1	0	Avg	0.8215	0.8087	0.8184	0.8241	0.8312	0.7948	0.8133	0.8159	0.8053	0.815	7.40	-1	-1	1.3		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Styrene	1	0	Avg	1.6806	1.4220	1.6002	1.6173	1.8255	1.6154	1.4814	1.2689	-----	1.56	7.13	0.997	1.00	11	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
m&p-Xylenes	1	0	Avg	1.0475	0.9320	1.0035	0.9870	1.0295	0.8772	0.8905	0.8679	0.8081	0.938	6.91	0.999	0.999	8.8	0.10	40.00	10.00	20.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	1.0211	0.9094	0.9824	0.9558	1.0599	0.9522	0.8921	0.7907	-----	0.946	7.12	0.998	1.00	8.8	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.2328	0.1800	0.2303	0.1998	0.2186	0.1941	0.2143	0.1937	-----	0.208	7.48	0.998	0.999	9.1		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichlorobenzene	1	0	Avg	1.2226	1.1094	1.2280	1.1524	1.2212	1.1641	1.1273	1.0944	-----	1.16	8.01	1.00	1.00	4.6	0.60	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dichlorobenzene	1	0	Avg	1.2305	1.1253	1.2542	1.2056	1.2363	1.1792	1.1557	1.2124	-----	1.20	8.05	1.00	1.00	3.6	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichlorobenzene	1	0	Avg	1.1303	1.0533	1.1477	1.0779	1.1269	1.1017	1.0810	1.0414	-----	1.10	8.27	1.00	1.00	3.5	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Isopropylbenzene	1	0	Avg	2.5387	2.3176	2.4393	2.4475	2.6109	2.3475	2.2503	2.0576	-----	2.38	7.31	0.999	1.00	7.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.0399	0.0319	0.0369	0.0311	0.0332	0.0331	0.0322	0.0381	-----	0.0346	7.38	1.00	1.00	9.4		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Camphene	1	0	Avg	0.8244	0.5922	0.7951	0.7662	0.8350	0.7488	0.7994	0.6532	-----	0.752	7.48	0.999	0.999	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichloropropane	1	0	Avg	0.8324	0.7370	0.8084	0.7723	0.8117	0.7373	0.7936	0.7293	-----	0.778	7.49	0.999	0.999	5.1		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chlorotoluene	1	0	Avg	1.4911	1.4777	1.4936	1.5302	1.4560	1.2875	1.2665	1.3319	-----	1.42	7.60	0.999	0.999	7.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.82

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

8022222 0131

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_8

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	8M12776.D	CAL @ 20 PPB	02/28/18 17:26	2	8M12774.D	CAL @ 5 PPB	02/28/18 16:51
3	8M12775.D	CAL @ 10 PPB	02/28/18 17:09	4	8M12783.D	CAL @ 50 PPB	02/28/18 19:31
5	8M12781.D	CAL @ 100 PPB	02/28/18 18:56	6	8M12779.D	CAL @ 250 PPB	02/28/18 18:20
7	8M12777.D	CAL @ 500 PPB	02/28/18 17:44	8	8M12773.D	CAL @ 1 PPB	02/28/18 16:33
9	8M12772.D	CAL @ 0.5 PPB	02/28/18 16:15				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	2.6479	2.4544	2.5891	2.5467	2.5976	2.4534	2.2676	2.1588	-----	2.46	7.58	0.998	1.00	7.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Chlorotoluene	1	0	Avg	1.4422	1.4280	1.4449	1.4953	1.4078	1.2682	1.2783	1.3120	-----	1.38	7.65	0.999	0.999	6.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Propylbenzene	1	0	Avg	2.9378	2.6308	2.8374	2.7285	2.7728	2.5323	2.4806	2.4552	-----	2.67	7.53	0.999	1.00	6.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.4745	1.3143	1.4650	1.3797	1.4147	1.2890	1.3700	1.3809	-----	1.39	7.50	0.999	0.999	4.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3,5-Trimethylbenzen	1	0	Avg	2.0543	1.8785	1.9702	2.1049	1.9747	1.6549	1.7022	1.6470	-----	1.87	7.61	0.998	0.998	9.8		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	0.5793	0.5158	0.5774	0.6142	0.5262	0.4738	0.4874	0.3982	-----	0.522	7.62	0.999	0.999	13	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	2.0117	1.7111	1.9281	1.9245	2.1464	1.9532	1.8796	1.6772	-----	1.90	7.80	0.999	1.00	8.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	2.0653	1.7665	2.0189	1.9686	2.0774	1.9789	1.8639	1.6012	-----	1.92	7.83	0.999	1.00	8.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	2.4130	1.9881	2.3185	2.3026	2.4346	2.3018	2.1824	1.9373	-----	2.23	7.92	0.999	1.00	8.3		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	2.0299	1.6608	1.9339	1.9694	2.0502	1.9600	1.8742	1.4986	-----	1.87	7.99	0.999	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	2.1169	1.7228	2.0502	1.9858	2.1422	2.0363	1.9801	1.6708	-----	1.96	8.22	1.00	1.00	8.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	1.2615	1.0277	1.1727	1.2448	1.3792	1.2913	1.2695	0.9706	-----	1.20	8.20	1.00	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4,5-Tetramethylbe	1	0	Avg	1.5919	1.1791	1.4434	1.6895	1.9816	1.7598	1.7464	1.0675	-----	1.56	8.65	0.999	0.999	20		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromo-3-Chloro	1	0	Avg	0.1468	0.1235	0.1410	0.1531	0.1775	0.1623	0.1725	0.1182	-----	0.149	8.71	0.999	0.999	14	0.05	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Camphor	1	0	Qua	0.0603	0.0382	0.0505	0.0618	0.0692	0.0664	0.0710	0.0356	0.0343	0.0542	9.13	0.999	1.00	27		200.0	50.00	100.0	500.0	1000.	2500.	5000.	10.00	5.00
Hexachlorobutadiene	1	0	Avg	0.2677	0.2316	0.2695	0.2786	0.2891	0.2687	0.2794	0.2182	-----	0.263	9.27	1.00	1.00	9.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trichlorobenzen	1	0	Avg	0.6664	0.5604	0.6426	0.7035	0.7174	0.6784	0.6958	0.5177	-----	0.648	9.19	1.00	1.00	11	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichlorobenzen	1	0	Avg	0.5876	0.5025	0.5667	0.5988	0.6154	0.6086	0.6179	0.4820	-----	0.572	9.48	1.00	1.00	9.2		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Naphthalene	1	0	Avg	1.8133	1.4274	1.6730	1.8690	1.9471	1.8637	1.8763	1.2791	-----	1.72	9.34	1.00	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags
a - failed the min rf criteria
c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.82
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

8022222 0132

Sample ID : CAL @ 20 PPB Operator : SG Qt Meth : 8M_A0228.M
Data File: 8M12776.D Sam Mult : 1 Vial# : 27 Qt On : 02/28/18 18:15
Acq On : 02/28/18 17:26 Misc : A,5ML Qt Upd On: 02/28/18 18:12

Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.189	96	421075	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.784	117	310238	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.032	152	154896	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.803	111	97414	27.30	ug/l	0.00
Spiked Amount 30.000			Recovery = 91.00%			
39) 1,2-Dichloroethane-d4	5.006	67	49291	30.34	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.13%			
66) Toluene-d8	6.025	98	405757	30.78	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.60%			
76) Bromofluorobenzene	7.398	174	127261	34.42	ug/l	0.00
Spiked Amount 30.000			Recovery = 114.73%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	2.042	51	52173	27.4551	ug/l	32
6) Dichlorodifluoromethane	2.025	85	46603	16.1581	ug/l	87
7) Chloromethane	2.196	50	48897	15.3960	ug/l	82
8) Bromomethane	2.553	94	37989m	14.5899	ug/l	
9) Vinyl Chloride	2.276	62	47497	13.7775	ug/l	96
10) Chloroethane	2.627	64	35407	16.4428	ug/l	93
11) Trichlorofluoromethane	2.829	101	78788	12.3525	ug/l	87
12) Ethyl ether	3.038	59	41457	15.4763	ug/l	64
13) Furan	3.080	39	65507m	10.3712	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	3.222	101	44092	14.7982	ug/l	94
15) Methylene Chloride	3.595	84	56172	24.3405	ug/l	76
16) Acrolein	3.141	56	51332	74.6903	ug/l	99
17) Acrylonitrile	3.775	53	18445	22.5036	ug/l	97
18) Iodomethane	3.366	142	50979	22.8854	ug/l	82
19) Acetone	3.251	43	65482m	50.6939	ug/l	
20) Carbon Disulfide	3.427	76	142819	13.0434	ug/l	100
21) t-Butyl Alcohol	3.038	59	41457	77.3085	ug/l	81
22) n-Hexane	4.019	57	50582m	24.3097	ug/l	
23) Di-isopropyl-ether	4.160	45	128699	21.5014	ug/l	72
24) 1,1-Dichloroethene	3.231	61	66756	14.9190	ug/l	68
25) Methyl Acetate	3.501	43	52723	20.8341	ug/l	100
26) Methyl-t-butyl ether	3.804	73	132095m	23.5466	ug/l	
27) 1,1-Dichloroethane	4.135	63	90489	25.0142	ug/l	100
28) trans-1,2-Dichloroethene	3.234	96	50064	16.5704	ug/l	79
29) Ethyl-t-butyl ether	4.411	59	140072	23.9525	ug/l	87
30) cis-1,2-Dichloroethene	4.527	61	85610	22.4533	ug/l	62
31) Bromochloromethane	4.675	49	42310	20.7753	ug/l	80
32) 2,2-Dichloropropane	4.533	77	73491	22.0668	ug/l	93
33) Ethyl acetate	4.543	43	53771m	18.5907	ug/l	
34) 1,4-Dioxane	5.569	88	14115m	442.5446	ug/l	
35) 1,1-Dichloropropene	4.929	75	75398	22.7312	ug/l	89
36) Chloroform	4.710	83	93988	22.1181	ug/l	87
38) Cyclohexane	4.881	56	76274	28.4324	ug/l	89
40) 1,2-Dichloroethane	5.048	62	65440	20.4986	ug/l	95
41) 2-Butanone	4.530	43	24321m	14.5739	ug/l	
42) 1,1,1-Trichloroethane	4.839	97	87557	22.1570	ug/l	99
43) Carbon Tetrachloride	4.935	117	71890	20.3808	ug/l	94
44) Vinyl Acetate	4.019	43	27905	22.7355	ug/l	100
45) Bromodichloromethane	5.643	83	67218	19.0733	ug/l	94
46) Methylcyclohexane	5.501	83	83396	24.7202	ug/l	80
47) Dibromomethane	5.575	174	41353	22.6982	ug/l	94
48) 1,2-Dichloropropane	5.508	63	52867	22.7443	ug/l	91
49) Trichloroethene	5.385	130	66189	21.9354	ug/l	87
50) Benzene	5.048	78	225809	23.4571	ug/l	100
51) tert-Amyl methyl ether	5.086	73	146386	22.8358	ug/l	66
53) Iso-propylacetate	5.038	43	91001	17.7982	ug/l	78
54) Methyl methacrylate	5.530	41	47440m	17.8925	ug/l	
55) Dibromochloromethane	6.475	129	59932	20.7225	ug/l	95
56) 2-Chloroethylvinylether	5.778	63	33958	22.7364	ug/l	88
57) cis-1,3-Dichloropropene	5.874	75	83354	23.4373	ug/l	91
58) trans-1,3-Dichloropropene	6.154	75	74545	21.4302	ug/l	98
59) Ethyl methacrylate	6.173	41	43466m	16.4551	ug/l	
60) 1,1,2-Trichloroethane	6.257	97	52302	23.0057	ug/l	93
61) 1,2-Dibromoethane	6.553	107	54388	22.2341	ug/l	91
62) 1,3-Dichloropropane	6.350	76	84472	21.7920	ug/l	98
63) 4-Methyl-2-Pentanone	5.938	43	45595	17.1977	ug/l	74
64) 2-Hexanone	6.363	43	31970	15.6923	ug/l	71
65) Tetrachloroethene	6.353	164	53344	24.9778	ug/l	97
67) Toluene	6.061	92	147125	23.7024	ug/l	97

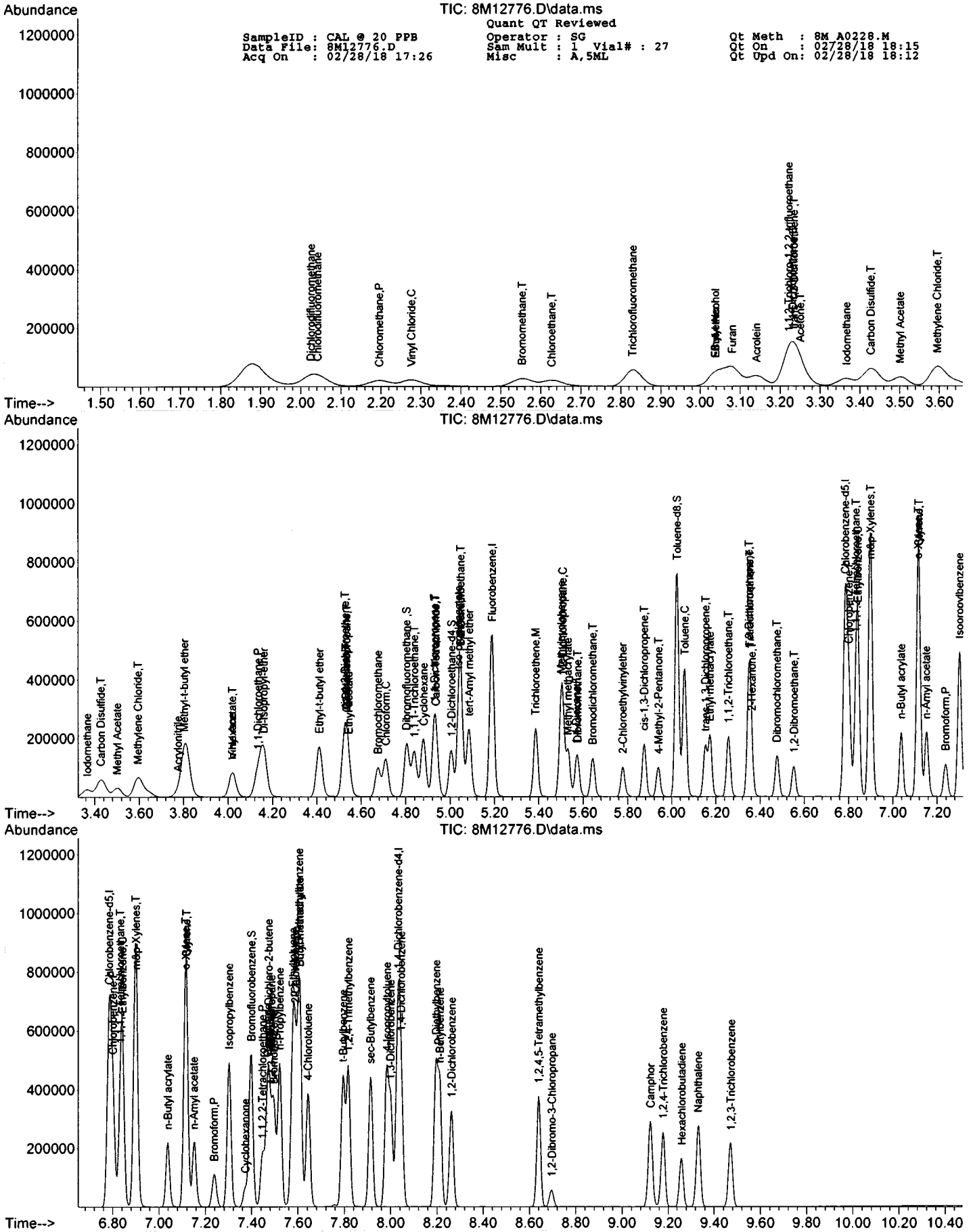
Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB Operator : SG Qt Meth : 8M_A0228.M
Data File: 8M12776.D Sam Mult : 1 Vial# : 27 Qt On : 02/28/18 18:15
Acq On : 02/28/18 17:26 Misc : A,5ML Qt Upd On: 02/28/18 18:12

Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.832	133	54103	20.6927	ug/l	71
69)	Chlorobenzene	6.800	112	162738	22.1486	ug/l	98
71)	n-Butyl acrylate	7.038	55	100215	21.0218	ug/l	95
72)	n-Amyl acetate	7.151	43	77290	17.0434	ug/l	72
73)	Bromoform	7.237	173	41006	20.3633	ug/l	97
74)	Ethylbenzene	6.842	106	70608	23.2262	ug/l	73
75)	1,1,2,2-Tetrachloroethane	7.446	83	68170	19.3362	ug/l	93
77)	Styrene	7.119	104	173553	23.0993	ug/l	76
78)	m&p-Xylenes	6.900	106	216346	51.9276	ug/l	73
79)	o-Xylene	7.115	106	105451	23.9515	ug/l	61
80)	trans-1,4-Dichloro-2-b...	7.472	53	24040	18.5297	ug/l	40
81)	1,3-Dichlorobenzene	8.000	146	126258	21.2342	ug/l	82
82)	1,4-Dichlorobenzene	8.045	146	127067	21.4110	ug/l	92
83)	1,2-Dichlorobenzene	8.263	146	116721	21.0974	ug/l	85
84)	Isopropylbenzene	7.302	105	262163	24.6773	ug/l	89
85)	Cyclohexanone	7.373	55	27394m	130.3922	ug/l	
86)	Camphene	7.469	93	85133	22.8788	ug/l	89
87)	1,2,3-Trichloropropane	7.485	75	85964	20.2972	ug/l	91
88)	2-Chlorotoluene	7.588	91	153984	22.1739	ug/l	88
89)	p-Ethyltoluene	7.578	105	273442	22.5656	ug/l	86
90)	4-Chlorotoluene	7.643	91	148928	21.8864	ug/l	84
91)	n-Propylbenzene	7.520	91	303373	23.1733	ug/l	92
92)	Bromobenzene	7.495	77	152272	21.8388	ug/l	52
93)	1,3,5-Trimethylbenzene	7.604	105	212143	23.7099	ug/l	84
94)	Butyl methacrylate	7.607	41	59829m	16.2405	ug/l	
95)	t-Butylbenzene	7.794	119	207740	21.8880	ug/l	97
96)	1,2,4-Trimethylbenzene	7.816	105	213275	21.8939	ug/l	82
97)	sec-Butylbenzene	7.913	105	249180	22.0154	ug/l	97
98)	4-Isopropyltoluene	7.983	119	209617	21.9467	ug/l	84
99)	n-Butylbenzene	8.212	91	218604	19.6359	ug/l	89
100)	p-Diethylbenzene	8.196	119	130268	20.4605	ug/l	88
101)	1,2,4,5-Tetramethylben...	8.639	119	164388	19.0336	ug/l	97
102)	1,2-Dibromo-3-Chloropr...	8.697	157	15162	18.9634	ug/l	62
103)	Camphor	9.122	95	62361	152.8382	ug/l	84
104)	Hexachlorobutadiene	9.260	225	27650	25.1656	ug/l	96
105)	1,2,4-Trichlorobenzene	9.176	180	68820	21.6653	ug/l	96
106)	1,2,3-Trichlorobenzene	9.472	180	60682	21.1445	ug/l	97
107)	Naphthalene	9.331	128	187251	18.5995	ug/l	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 8M12776.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 20 PPB
Data File: 8M12776.D
Acq On : 02/28/18 17:26
Operator : SG
Sam Mult : 1 Vial# : 27
Misc : A,5ML
Qt Meth : 8M_A0228.M
Qt On : 02/28/18 18:15
Qt Upd On: 02/28/18 18:12
Time-->

8022222 0135

Sample ID : CAL @ 5 PPB
Data File: 8M12774.D
Acq On : 02/28/18 16:51
Operator : SG
Sam Mult : 1 Vial# : 25
Misc : A,5ML
Qt Meth : 8M_A0228.M
Qt On : 02/28/18 18:21
Qt Upd On: 02/28/18 18:12

Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.186	96	428440	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.784	117	303243	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.032	152	152765	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.804	111	100731	27.75	ug/l	0.00
Spiked Amount 30.000			Recovery = 92.50%			
39) 1,2-Dichloroethane-d4	5.003	67	52094	31.51	ug/l	0.00
Spiked Amount 30.000			Recovery = 105.03%			
66) Toluene-d8	6.022	98	402347	31.23	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.10%			
76) Bromofluorobenzene	7.398	174	123553	33.88	ug/l	0.00
Spiked Amount 30.000			Recovery = 112.93%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	2.042	51	12019	6.2160	ug/l	39
6) Dichlorodifluoromethane	2.022	85	10201	3.4761	ug/l	87
7) Chloromethane	2.193	50	12235	3.7862	ug/l	88
8) Bromomethane	2.556	94	9870	3.7255	ug/l	85
9) Vinyl Chloride	2.273	62	10928	3.1154	ug/l	97
10) Chloroethane	2.627	64	8645	3.9457	ug/l	90
11) Trichlorofluoromethane	2.829	101	17813	2.7447	ug/l	87
12) Ethyl ether	3.042	59	10210	3.7460	ug/l	65
13) Furan	3.077	39	16394m	2.5509	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	3.225	101	9207	3.0369	ug/l	95
15) Methylene Chloride	3.598	84	14154	6.0278	ug/l	73
16) Acrolein	3.138	56	12339	17.6452	ug/l	100
17) Acrylonitrile	3.772	53	4217	5.0565	ug/l	91
18) Iodomethane	3.363	142	10353	4.5678	ug/l	81
19) Acetone	3.254	43	13990	10.6444	ug/l	68
20) Carbon Disulfide	3.427	76	34738	3.1180	ug/l	100
21) t-Butyl Alcohol	3.042	59	10210	18.7122	ug/l	85
22) n-Hexane	4.019	57	9525m	4.4990	ug/l	
23) Di-isopropyl-ether	4.161	45	30102	4.9426	ug/l	71
24) 1,1-Dichloroethene	3.235	61	15826	3.4761	ug/l	63
25) Methyl Acetate	3.498	43	12476	4.8453	ug/l	100
26) Methyl-t-butyl ether	3.804	73	31172m	5.4611	ug/l	
27) 1,1-Dichloroethane	4.135	63	21592	5.8661	ug/l	97
28) trans-1,2-Dichloroethene	3.235	96	12033	3.9143	ug/l	73
29) Ethyl-t-butyl ether	4.408	59	32526	5.4664	ug/l	88
30) cis-1,2-Dichloroethene	4.527	61	20779	5.3561	ug/l	60
31) Bromochloromethane	4.672	49	10037	4.8437	ug/l	79
32) 2,2-Dichloropropane	4.534	77	17903	5.2832	ug/l	91
33) Ethyl acetate	4.543	43	10928m	3.7133	ug/l	
34) 1,4-Dioxane	5.569	88	1607	49.5178	ug/l	88
35) 1,1-Dichloropropene	4.926	75	17189	5.0931	ug/l	91
36) Chloroform	4.710	83	22907	5.2980	ug/l	88
38) Cyclohexane	4.878	56	14516	5.3181	ug/l	87
40) 1,2-Dichloroethane	5.045	62	16298	5.0175	ug/l	94
41) 2-Butanone	4.534	43	6657m	3.9205	ug/l	
42) 1,1,1-Trichloroethane	4.839	97	20690	5.1458	ug/l	97
43) Carbon Tetrachloride	4.935	117	16213	4.5174	ug/l	94
44) Vinyl Acetate	4.019	43	5304	4.2471	ug/l	100
45) Bromodichloromethane	5.643	83	15626	4.3577	ug/l	92
46) Methylcyclohexane	5.501	83	15610	4.5476	ug/l	82
47) Dibromomethane	5.572	174	9878	5.3287	ug/l	91
48) 1,2-Dichloropropane	5.508	63	12724	5.3800	ug/l	93
49) Trichloroethene	5.386	130	15779	5.1394	ug/l	86
50) Benzene	5.048	78	55043	5.6196	ug/l	100
51) tert-Amyl methyl ether	5.083	73	33024	5.0631	ug/l	69
53) Iso-propylacetate	5.038	43	21195	4.2410	ug/l	80
54) Methyl methacrylate	5.530	41	10392m	4.0099	ug/l	
55) Dibromochloromethane	6.476	129	12952	4.5817	ug/l	98
56) 2-Chloroethylvinylether	5.778	63	7325	5.0176	ug/l	90
57) cis-1,3-Dichloropropene	5.874	75	18939	5.4481	ug/l	90
58) trans-1,3-Dichloropropene	6.151	75	16452	4.8387	ug/l	95
59) Ethyl methacrylate	6.173	41	8530m	3.3037	ug/l	
60) 1,1,2-Trichloroethane	6.257	97	11741	5.2836	ug/l	94
61) 1,2-Dibromoethane	6.553	107	12550	5.2489	ug/l	89
62) 1,3-Dichloropropane	6.350	76	18956	5.0031	ug/l	99
63) 4-Methyl-2-Pentanone	5.935	43	9737	3.7574	ug/l	75
64) 2-Hexanone	6.363	43	6302	3.1647	ug/l	71
65) Tetrachloroethene	6.353	164	11637	5.5746	ug/l	95
67) Toluene	6.058	92	34625	5.7069	ug/l	97

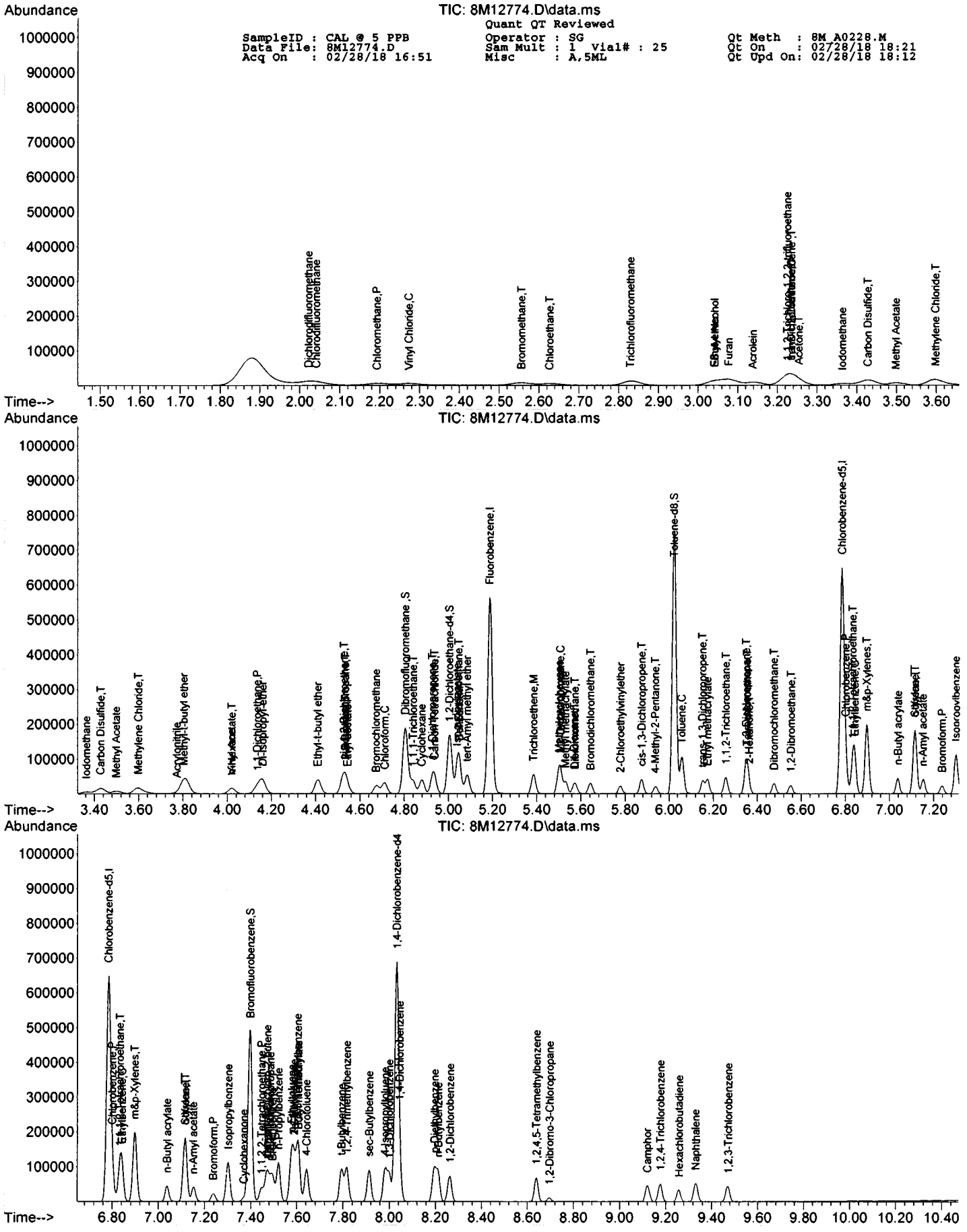
Quantitation Report (QT Reviewed)

SampleID : CAL @ 5 PPB Operator : SG Qt Meth : 8M_A0228.M
Data File: 8M12774.D Sam Mult : 1 Vial# : 25 Qt On : 02/28/18 18:21
Acq On : 02/28/18 16:51 Misc : A,5ML Qt Upd On: 02/28/18 18:12

Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.832	133	12194	4.7714	ug/l	69
69)	Chlorobenzene	6.800	112	37582	5.2329	ug/l	98
71)	n-Butyl acrylate	7.038	55	20242	4.3053	ug/l	94
72)	n-Amyl acetate	7.151	43	14536	3.2501	ug/l	70
73)	Bromoform	7.238	173	8613	4.3368	ug/l	96
74)	Ethylbenzene	6.842	106	14992	5.0003	ug/l	72
75)	1,1,2,2-Tetrachloroethane	7.447	83	15366	4.4193	ug/l	94
77)	Styrene	7.115	104	36207	4.8863	ug/l	79
78)	m&p-Xylenes	6.897	106	47463	11.5510	ug/l	71
79)	o-Xylene	7.115	106	23156	5.3329	ug/l	60
80)	trans-1,4-Dichloro-2-b...	7.472	53	4585	3.5833	ug/l	34
81)	1,3-Dichlorobenzene	8.000	146	28248	4.8170	ug/l	84
82)	1,4-Dichlorobenzene	8.045	146	28652	4.8952	ug/l	95
83)	1,2-Dichlorobenzene	8.263	146	26819	4.9152	ug/l	85
84)	Isopropylbenzene	7.302	105	59008	5.6319	ug/l	89
85)	Cyclohexanone	7.369	55	5181m	25.0050	ug/l	
86)	Camphene	7.469	93	15078	4.1086	ug/l	86
87)	1,2,3-Trichloropropane	7.485	75	18767	4.4929	ug/l	92
88)	2-Chlorotoluene	7.588	91	37624	5.4935	ug/l	88
89)	p-Ethyltoluene	7.578	105	62492	5.2291	ug/l	82
90)	4-Chlorotoluene	7.643	91	36360	5.4180	ug/l	85
91)	n-Propylbenzene	7.521	91	66983	5.1879	ug/l	91
92)	Bromobenzene	7.495	77	33465	4.8665	ug/l	52
93)	1,3,5-Trimethylbenzene	7.604	105	47829	5.4201	ug/l	78
94)	Butyl methacrylate	7.607	41	13134m	3.6149	ug/l	
95)	t-Butylbenzene	7.794	119	43567	4.6544	ug/l	96
96)	1,2,4-Trimethylbenzene	7.816	105	44978	4.6816	ug/l	81
97)	sec-Butylbenzene	7.913	105	50619	4.5347	ug/l	98
98)	4-Isopropyltoluene	7.980	119	42287	4.4892	ug/l	83
99)	n-Butylbenzene	8.212	91	43865	3.9951	ug/l	89
100)	p-Diethylbenzene	8.196	119	26168	4.1674	ug/l	88
101)	1,2,4,5-Tetramethylben...	8.639	119	30023	3.5247	ug/l	99
102)	1,2-Dibromo-3-Chloropr...	8.697	157	3145	3.9884	ug/l	57
103)	Camphor	9.119	95	9725	24.1671	ug/l	86
104)	Hexachlorobutadiene	9.260	225	5899	5.4439	ug/l	97
105)	1,2,4-Trichlorobenzene	9.176	180	14270	4.5550	ug/l	95
106)	1,2,3-Trichlorobenzene	9.472	180	12795	4.5206	ug/l	97
107)	Naphthalene	9.331	128	36343	3.6603	ug/l	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 8M12774.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 5 PPB
Data File: 8M12774.D
Acq On : 02/28/18 16:51
Operator : SG
Sam Mult : 1 Vial# : 25
Misc : A,5ML
Qt Meth : 8M_A0228.M
Qt On : 02/28/18 18:21
Qt Upd On: 02/28/18 18:12
Time-->

Quantitation Report (Qt Reviewed)

8022222 0138

SampleID : CAL @ 10 PPB Operator : SG Qt Meth : 8M_A0228.M
Data File: 8M12775.D Sam Mult : 1 Vial# : 26 Qt On : 02/28/18 18:18
Acq On : 02/28/18 17:09 Misc : A,5ML Qt Upd On: 02/28/18 18:12

Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.186	96	413310	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.784	117	307387	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.032	152	152938	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.803	111	96609	27.59	ug/l	0.00
Spiked Amount 30.000			Recovery = 91.97%			
39) 1,2-Dichloroethane-d4	5.003	67	48523	30.43	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.43%			
66) Toluene-d8	6.022	98	400157	30.64	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.13%			
76) Bromofluorobenzene	7.398	174	125171	34.29	ug/l	0.00
Spiked Amount 30.000			Recovery = 114.30%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	2.038	51	26673	14.2999	ug/l	47
6) Dichlorodifluoromethane	2.029	85	21255	7.5080	ug/l	91
7) Chloromethane	2.196	50	23544	7.5525	ug/l	79
8) Bromomethane	2.553	94	19112	7.4780	ug/l	82
9) Vinyl Chloride	2.279	62	22321	6.5963	ug/l	97
10) Chloroethane	2.627	64	17098	8.0894	ug/l	91
11) Trichlorofluoromethane	2.833	101	37873	6.0494	ug/l	85
12) Ethyl ether	3.042	59	20425	7.7681	ug/l	66
13) Furan	3.080	39	32092m	5.1763	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	3.225	101	21168	7.2379	ug/l	95
15) Methylene Chloride	3.595	84	27462	12.1234	ug/l	73
16) Acrolein	3.141	56	23715	35.1547	ug/l	99
17) Acrylonitrile	3.778	53	8257	10.2631	ug/l	88
18) Iodomethane	3.363	142	23151	10.5882	ug/l	80
19) Acetone	3.254	43	27463	21.6604	ug/l	64
20) Carbon Disulfide	3.427	76	69090	6.4284	ug/l	100
21) t-Butyl Alcohol	3.042	59	20425	38.8039	ug/l	83
22) n-Hexane	4.019	57	22443m	10.9888	ug/l	
23) Di-isopropyl-ether	4.160	45	61148	10.4077	ug/l	74
24) 1,1-Dichloroethene	3.234	61	32572	7.4161	ug/l	69
25) Methyl Acetate	3.498	43	24526	9.8738	ug/l	100
26) Methyl-t-butyl ether	3.804	73	63357m	11.5059	ug/l	
27) 1,1-Dichloroethane	4.135	63	42905	12.0832	ug/l	99
28) trans-1,2-Dichloroethene	3.234	96	23755	8.0103	ug/l	81
29) Ethyl-t-butyl ether	4.408	59	66909	11.6565	ug/l	87
30) cis-1,2-Dichloroethene	4.524	61	41253	11.0229	ug/l	59
31) Bromochloromethane	4.675	49	20882	10.4463	ug/l	75
32) 2,2-Dichloropropane	4.533	77	36469	11.1561	ug/l	93
33) Ethyl acetate	4.543	43	19766m	6.9623	ug/l	
34) 1,4-Dioxane	5.569	88	5504	175.8078	ug/l	91
35) 1,1-Dichloropropene	4.926	75	35636	10.9455	ug/l	90
36) Chloroform	4.710	83	46018	11.0328	ug/l	87
38) Cyclohexane	4.877	56	34440	13.0793	ug/l	87
40) 1,2-Dichloroethane	5.048	62	33493	10.6886	ug/l	92
41) 2-Butanone	4.533	43	13404m	8.1830	ug/l	
42) 1,1,1-Trichloroethane	4.839	97	42785	11.0305	ug/l	97
43) Carbon Tetrachloride	4.935	117	34871	10.0717	ug/l	95
44) Vinyl Acetate	4.022	43	12760	10.5915	ug/l	100
45) Bromodichloromethane	5.643	83	32578	9.4178	ug/l	95
46) Methylcyclohexane	5.501	83	38042	11.4882	ug/l	81
47) Dibromomethane	5.572	174	20447	11.4340	ug/l	93
48) 1,2-Dichloropropane	5.508	63	25307	11.0921	ug/l	95
49) Trichloroethene	5.385	130	32015	10.8093	ug/l	86
50) Benzene	5.048	78	108223	11.4535	ug/l	100
51) tert-Amyl methyl ether	5.083	73	69285	11.0113	ug/l	67
53) Iso-propylacetate	5.038	43	42938	8.4758	ug/l	81
54) Methyl methacrylate	5.530	41	21797m	8.2972	ug/l	
55) Dibromochloromethane	6.475	129	29078	10.1475	ug/l	95
56) 2-Chloroethylvinylether	5.778	63	15453	10.4425	ug/l	87
57) cis-1,3-Dichloropropene	5.874	75	39342	11.1647	ug/l	92
58) trans-1,3-Dichloropropene	6.151	75	36571	10.6110	ug/l	98
59) Ethyl methacrylate	6.173	41	20518m	7.8396	ug/l	
60) 1,1,2-Trichloroethane	6.257	97	25430	11.2895	ug/l	94
61) 1,2-Dibromoethane	6.553	107	26201	10.8104	ug/l	94
62) 1,3-Dichloropropane	6.347	76	41204	10.7284	ug/l	98
63) 4-Methyl-2-Pentanone	5.935	43	20826	7.9281	ug/l	76
64) 2-Hexanone	6.363	43	14668	7.2665	ug/l	77
65) Tetrachloroethene	6.353	164	25870	12.2257	ug/l	95
67) Toluene	6.057	92	70499	11.4630	ug/l	96

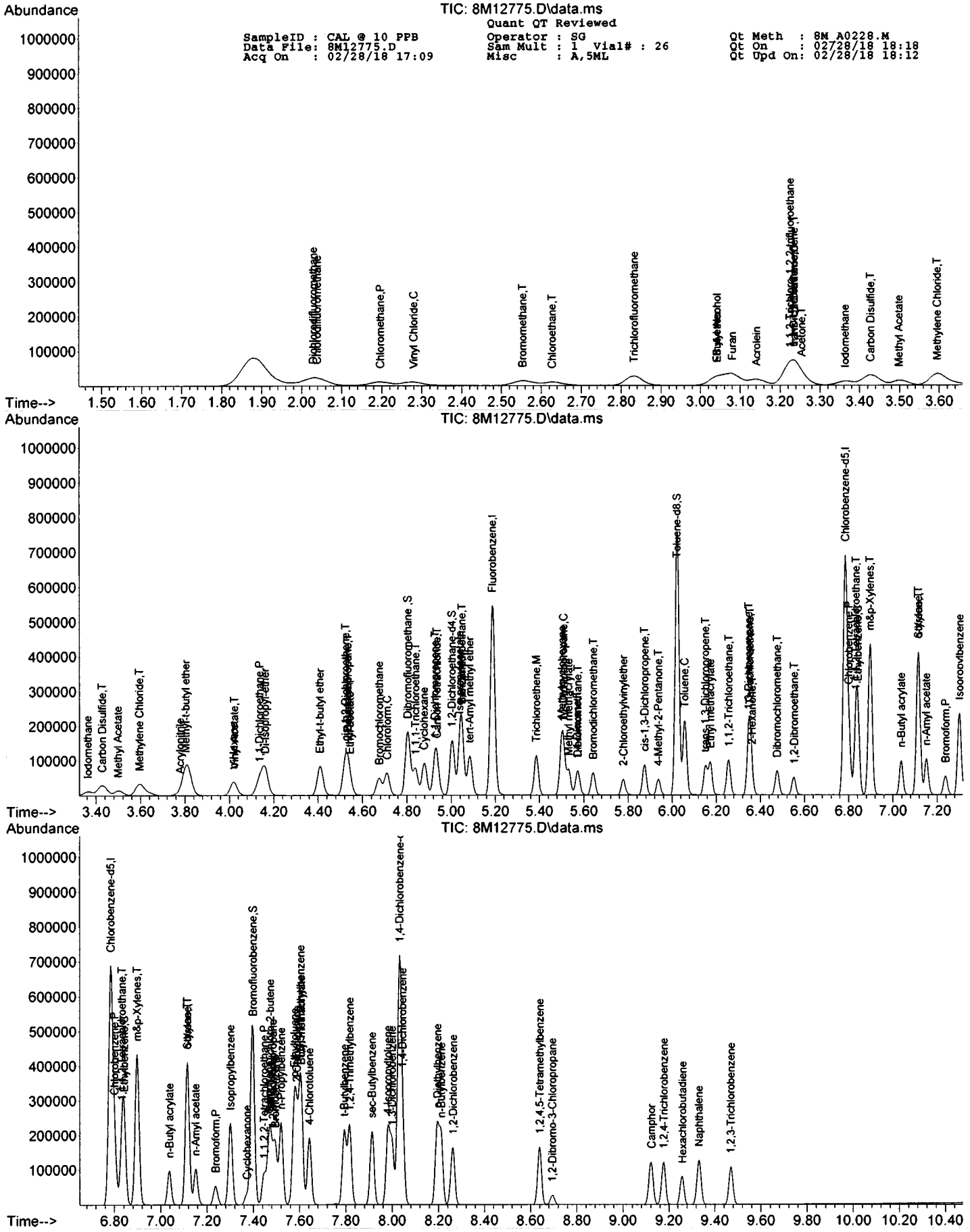
Quantitation Report (QT Reviewed)

SampleID : CAL @ 10 PPB Operator : SG Qt Meth : 8M_A0228.M
Data File: 8M12775.D Sam Mult : 1 Vial# : 26 Qt On : 02/28/18 18:18
Acq On : 02/28/18 17:09 Misc : A,5ML Qt Upd On: 02/28/18 18:12

Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.832	133	26874	10.3738	ug/l	71
69)	Chlorobenzene	6.800	112	80128	11.0066	ug/l	97
71)	n-Butyl acrylate	7.038	55	44732	9.5034	ug/l	95
72)	n-Amyl acetate	7.151	43	36154	8.0745	ug/l	73
73)	Bromoform	7.237	173	19412	9.7633	ug/l	98
74)	Ethylbenzene	6.842	106	33216	11.0661	ug/l	73
75)	1,1,2,2-Tetrachloroethane	7.446	83	33639	9.6638	ug/l	90
77)	Styrene	7.115	104	81580	10.9970	ug/l	78
78)	m&p-Xylenes	6.897	106	102317	24.8727	ug/l	75
79)	o-Xylene	7.115	106	50083	11.5212	ug/l	63
80)	trans-1,4-Dichloro-2-b...	7.472	53	11744	9.1680	ug/l	46
81)	1,3-Dichlorobenzene	8.000	146	62607	10.6641	ug/l	83
82)	1,4-Dichlorobenzene	8.045	146	63939	10.9117	ug/l	92
83)	1,2-Dichlorobenzene	8.263	146	58511	10.7113	ug/l	85
84)	Isopropylbenzene	7.302	105	124356	11.8554	ug/l	89
85)	Cyclohexanone	7.373	55	12580m	60.6459	ug/l	
86)	Camphene	7.469	93	40538	11.0337	ug/l	90
87)	1,2,3-Trichloropropane	7.485	75	41213	9.8555	ug/l	92
88)	2-Chlorotoluene	7.588	91	76144	11.1052	ug/l	89
89)	p-Ethyltoluene	7.578	105	131995	11.0323	ug/l	82
90)	4-Chlorotoluene	7.643	91	73664	10.9642	ug/l	84
91)	n-Propylbenzene	7.520	91	144652	11.1908	ug/l	92
92)	Bromobenzene	7.495	77	74687	10.8487	ug/l	53
93)	1,3,5-Trimethylbenzene	7.604	105	100441	11.3694	ug/l	77
94)	Butyl methacrylate	7.607	41	29437m	8.0929	ug/l	
95)	t-Butylbenzene	7.794	119	98297	10.4894	ug/l	98
96)	1,2,4-Trimethylbenzene	7.816	105	102927	10.7013	ug/l	82
97)	sec-Butylbenzene	7.913	105	118199	10.5768	ug/l	97
98)	4-Isopropyltoluene	7.980	119	98589	10.4543	ug/l	84
99)	n-Butylbenzene	8.212	91	104522	9.5088	ug/l	89
100)	p-Diethylbenzene	8.196	119	59784	9.5102	ug/l	90
101)	1,2,4,5-Tetramethylben...	8.639	119	73584	8.6290	ug/l	97
102)	1,2-Dibromo-3-Chloropr...	8.694	157	7190	9.1078	ug/l	60
103)	Camphor	9.122	95	25762	63.9474	ug/l	86
104)	Hexachlorobutadiene	9.260	225	13741	12.6665	ug/l	96
105)	1,2,4-Trichlorobenzene	9.176	180	32763	10.4462	ug/l	96
106)	1,2,3-Trichlorobenzene	9.469	180	28893	10.1966	ug/l	96
107)	Naphthalene	9.331	128	85289	8.5801	ug/l	85

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 8M12775.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 10 PPB
Data File: 8M12775.D
Acq On : 02/28/18 17:09
Operator : SG
Sam Mult : 1 Vial# : 26
Misc : A,5ML
Qt Meth : 8M_A0228.M
Qt On : 02/28/18 18:18
Qt Upd On: 02/28/18 18:12
Abundance
Time-->
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Furan
Acrolein
Acetone,I
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Fluorobenzene,I
Chlorobenzene-d5,I
Toluene-d8,S
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,S
Dibromofluoromethane,S
Camphor
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene

Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB Operator : SG Qt Meth : 8M_A0228.M
Data File: 8M12783.D Sam Mult : 1 Vial# : 34 Qt On : 02/28/18 19:54
Acq On : 02/28/18 19:31 Misc : A,5ML Qt Upd On: 01/15/18 13:19

Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.189	96	434609	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.784	117	300903	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.032	152	153138	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.803	111	104242	28.31	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.37%			
39) 1,2-Dichloroethane-d4	5.006	67	52656	31.40	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.67%			
66) Toluene-d8	6.025	98	419799	32.84	ug/l	0.00
Spiked Amount 30.000			Recovery = 109.47%			
76) Bromofluorobenzene	7.398	174	126207	34.53	ug/l	0.00
Spiked Amount 30.000			Recovery = 115.10%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	2.041	51	138417m	43.8346	ug/l	
6) Dichlorodifluoromethane	2.029	85	111708	24.9295	ug/l	89
7) Chloromethane	2.193	50	142392m	43.4384	ug/l	
8) Bromomethane	2.556	94	97937	46.8361	ug/l	86
9) Vinyl Chloride	2.276	62	118316	33.2512	ug/l	97
10) Chloroethane	2.630	64	88511	42.7334	ug/l	91
11) Trichlorofluoromethane	2.829	101	192131	29.1846	ug/l	86
12) Ethyl ether	3.041	59	106307	38.4496	ug/l	63
13) Furan	3.080	39	161934m	29.8588	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	3.225	101	107457	34.9418	ug/l	93
15) Methylene Chloride	3.598	84	143638	60.3030	ug/l	74
16) Acrolein	3.141	56	130306	183.6967	ug/l	99
17) Acrylonitrile	3.775	53	47193	55.7843	ug/l	95
18) Iodomethane	3.366	142	138606	60.2852	ug/l	80
19) Acetone	3.250	43	137469	135.5962	ug/l	61
20) Carbon Disulfide	3.430	76	371949	55.5595	ug/l	100
21) t-Butyl Alcohol	3.041	59	106307	192.0667	ug/l	80
22) n-Hexane	4.019	57	125281m	58.3352	ug/l	
23) Di-isopropyl-ether	4.160	45	333438	53.9718	ug/l	72
24) 1,1-Dichloroethene	3.234	61	165292	35.7900	ug/l	66
25) Methyl Acetate	3.501	43	132164	50.5998	ug/l	100
26) Methyl-t-butyl ether	3.803	73	348197m	49.2270	ug/l	
27) 1,1-Dichloroethane	4.135	63	227315	60.8807	ug/l	99
28) trans-1,2-Dichloroethene	3.234	96	124113	39.8003	ug/l	79
29) Ethyl-t-butyl ether	4.411	59	369444	61.2082	ug/l	87
30) cis-1,2-Dichloroethene	4.527	61	217237	50.5614	ug/l	60
31) Bromochloromethane	4.675	49	107180	50.9894	ug/l	78
32) 2,2-Dichloropropane	4.533	77	174441	47.2742	ug/l	91
33) Ethyl acetate	4.543	43	133855m	46.8764	ug/l	
34) 1,4-Dioxane	5.569	88	25873	785.9297	ug/l	93
35) 1,1-Dichloropropene	4.929	75	190010	55.5009	ug/l	90
36) Chloroform	4.710	83	238349	54.3438	ug/l	88
38) Cyclohexane	4.881	56	188898	68.2221	ug/l	88
40) 1,2-Dichloroethane	5.048	62	161948	43.7951	ug/l	96
41) 2-Butanone	4.530	43	60626m	40.1422	ug/l	
42) 1,1,1-Trichloroethane	4.839	97	219820	53.8950	ug/l	99
43) Carbon Tetrachloride	4.935	117	185856	44.9799	ug/l	94
44) Vinyl Acetate	4.019	43	67751	46.6965	ug/l	100
45) Bromodichloromethane	5.643	83	171803	47.2315	ug/l	94
46) Methylcyclohexane	5.501	83	210668	60.5015	ug/l	79
47) Dibromomethane	5.572	174	106641	56.7114	ug/l	93
48) 1,2-Dichloropropane	5.508	63	133074	55.4679	ug/l	92
49) Trichloroethene	5.385	130	165533	53.1502	ug/l	87
50) Benzene	5.048	78	572128	57.5821	ug/l	100
51) tert-Amyl methyl ether	5.086	73	384368	50.6297	ug/l	65
53) Iso-propylacetate	5.038	43	234001	40.0017	ug/l	78
54) Methyl methacrylate	5.530	41	120280m	41.3801	ug/l	
55) Dibromochloromethane	6.475	129	154142	54.9506	ug/l	97
56) 2-Chloroethylvinylether	5.778	63	91825	51.7191	ug/l	88
57) cis-1,3-Dichloropropene	5.874	75	210962	49.4525	ug/l	92
58) trans-1,3-Dichloropropene	6.154	75	191659	47.8113	ug/l	98
59) Ethyl methacrylate	6.173	41	112024m	37.6783	ug/l	
60) 1,1,2-Trichloroethane	6.257	97	130214	59.0532	ug/l	93
61) 1,2-Dibromoethane	6.553	107	127777	53.8564	ug/l	92
62) 1,3-Dichloropropane	6.350	76	209211	55.6465	ug/l	99
63) 4-Methyl-2-Pentanone	5.935	43	116258	45.2111	ug/l	72
64) 2-Hexanone	6.363	43	78895	36.2105	ug/l	66
65) Tetrachloroethene	6.353	164	130177	62.8451	ug/l	97
67) Toluene	6.061	92	368850	61.2666	ug/l	97

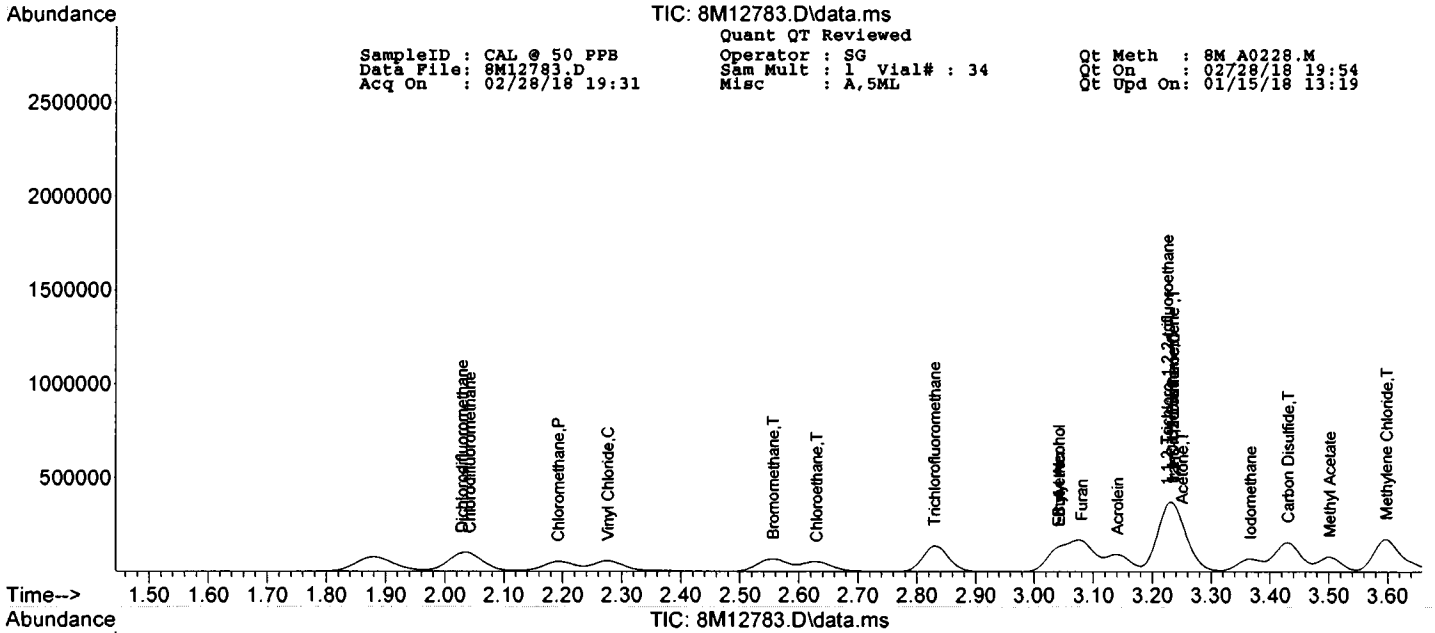
Quantitation Report (QT Reviewed)

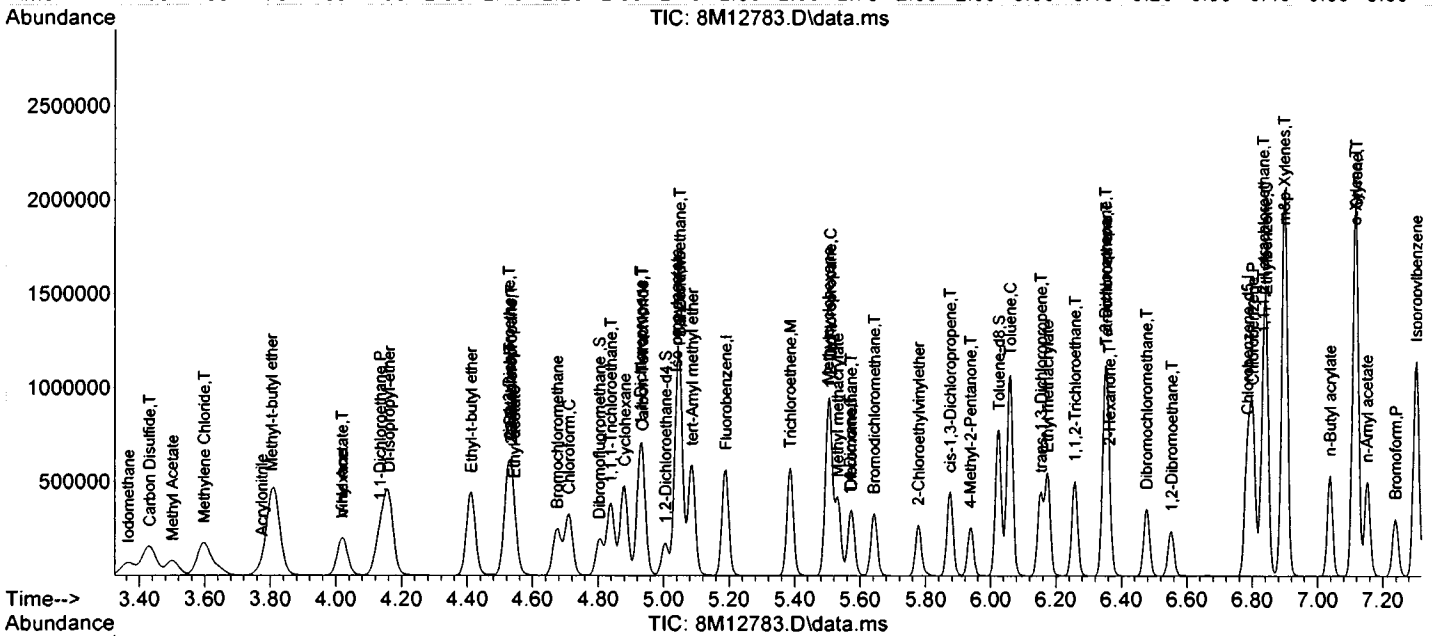
SampleID : CAL @ 50 PPB Operator : SG Qt Meth : 8M_A0228.M
Data File: 8M12783.D Sam Mult : 1 Vial# : 34 Qt On : 02/28/18 19:54
Acq On : 02/28/18 19:31 Misc : A,5ML Qt Upd On: 01/15/18 13:19

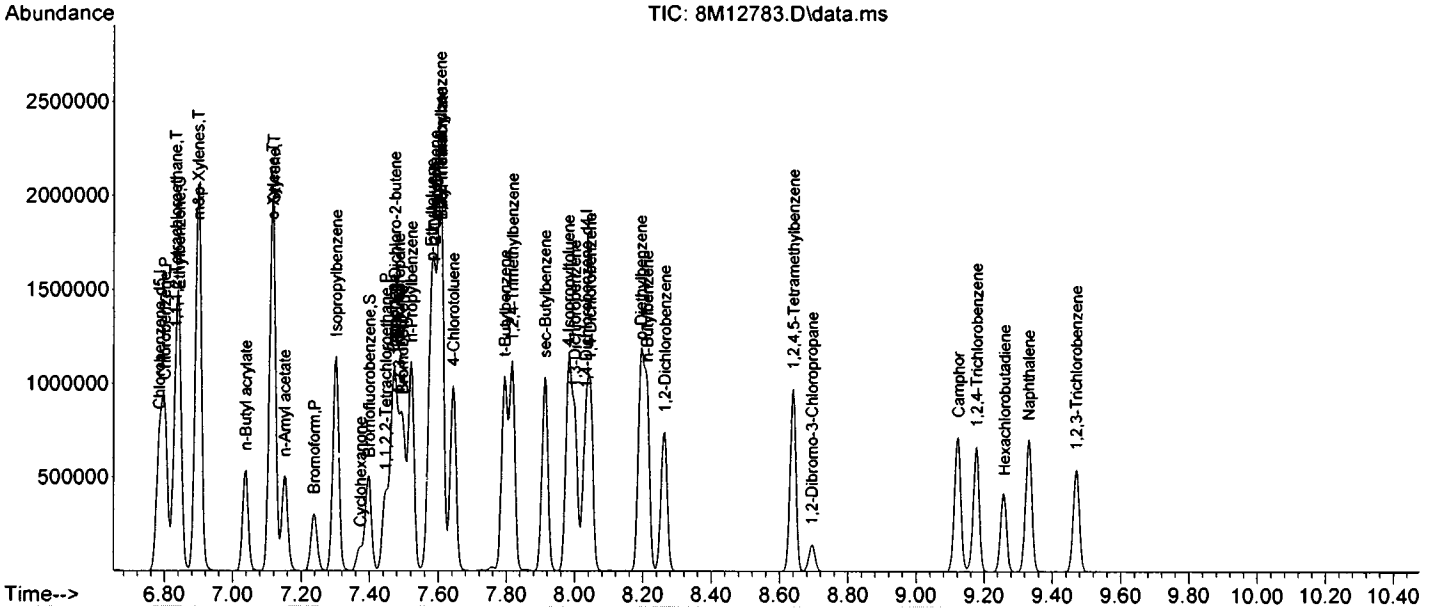
Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.832	133	128302	50.5940	ug/l	70
69)	Chlorobenzene	6.800	112	378748	53.1468	ug/l	98
71)	n-Butyl acrylate	7.038	55	246780	43.8009	ug/l	94
72)	n-Amyl acetate	7.151	43	173568m	38.7132	ug/l	
73)	Bromoform	7.237	173	110847	55.6777	ug/l	97
74)	Ethylbenzene	6.842	106	165952	55.2159	ug/l	71
75)	1,1,2,2-Tetrachloroethane	7.446	83	159732	45.8277	ug/l	93
77)	Styrene	7.118	104	412785	55.5710	ug/l	74
78)	m&p-Xylenes	6.897	106	503826	122.3172	ug/l	72
79)	o-Xylene	7.115	106	243953	56.0462	ug/l	61
80)	trans-1,4-Dichloro-2-b...	7.472	53	51013	32.2330	ug/l	27
81)	1,3-Dichlorobenzene	7.999	146	294149	50.0382	ug/l	82
82)	1,4-Dichlorobenzene	8.044	146	307712	52.4451	ug/l	91
83)	1,2-Dichlorobenzene	8.263	146	275113	50.2976	ug/l	85
84)	Isopropylbenzene	7.302	105	624680	59.4759	ug/l	88
85)	Cyclohexanone	7.372	55	55104m	265.2995	ug/l	
86)	Camphene	7.469	93	195580	53.1640	ug/l	85
87)	1,2,3-Trichloropropane	7.485	75	197115	47.0756	ug/l	91
88)	2-Chlorotoluene	7.588	91	390564	56.8873	ug/l	88
89)	p-Ethyltoluene	7.578	105	649995	54.2562	ug/l	87
90)	4-Chlorotoluene	7.643	91	381659	56.7324	ug/l	84
91)	n-Propylbenzene	7.520	91	696399	53.8054	ug/l	91
92)	Bromobenzene	7.495	77	352155	51.0857	ug/l	52
93)	1,3,5-Trimethylbenzene	7.604	105	537237	60.7330	ug/l	83
94)	Butyl methacrylate	7.607	41	156779m	39.4645	ug/l	
95)	t-Butylbenzene	7.794	119	491210	52.3492	ug/l	95
96)	1,2,4-Trimethylbenzene	7.816	105	502464	52.1729	ug/l	82
97)	sec-Butylbenzene	7.913	105	587706	52.5208	ug/l	96
98)	4-Isopropyltoluene	7.980	119	502663	53.2326	ug/l	83
99)	n-Butylbenzene	8.212	91	506856	46.0506	ug/l	91
100)	p-Diethylbenzene	8.192	119	317723	50.4759	ug/l	88
101)	1,2,4,5-Tetramethylben...	8.639	119	431226	38.1494	ug/l	99
102)	1,2-Dibromo-3-Chloropr...	8.694	157	39077	49.4355	ug/l	56
103)	Camphor	9.122	95	157960	345.6835	ug/l	83
104)	Hexachlorobutadiene	9.260	225	71113	65.4664	ug/l	95
105)	1,2,4-Trichlorobenzene	9.176	180	179561	57.1767	ug/l	96
106)	1,2,3-Trichlorobenzene	9.469	180	152831	53.8650	ug/l	97
107)	Naphthalene	9.331	128	477032	47.9271	ug/l	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 8M12783.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 50 PPB
Data File: 8M12783.D
Acq On : 02/28/18 19:31
Operator : SG
Sam Mult : 1 Vial# : 34
Misc : A,5ML
Qt Meth : 8M_A0228.M
Qt On : 02/28/18 19:54
Qt Upd On: 01/15/18 13:19
Dichlorodifluoromethane
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Time-->


Abundance
TIC: 8M12783.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Acrylonitrile
Methyl-t-butyl ether
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene,T
Time-->


Abundance
TIC: 8M12783.D\data.ms
Chlorobenzene-d5,I
Ethylbenzene-d10,S
m&p-Xylenes,T
o-Xylene,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone,S
Bromofluorobenzene,S
1,1,2,2-Tetrachloroethane,P
1,2,3-Trichloropropane,P
n-Propylbenzene
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 100 PPB Operator : SG Qt Meth : 8M_A0228.M
Data File: 8M12781.D Sam Mult : 1 Vial# : 32 Qt On : 02/28/18 19:52
Acq On : 02/28/18 18:56 Misc : A,5ML Qt Upd On: 01/15/18 13:19

Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.189	96	426871	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.784	117	300079	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.032	152	149644	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.804	111	101376	28.03	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.43%			
39) 1,2-Dichloroethane-d4	5.006	67	49966	30.34	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.13%			
66) Toluene-d8	6.025	98	412440	32.35	ug/l	0.00
Spiked Amount 30.000			Recovery = 107.83%			
76) Bromofluorobenzene	7.398	174	124390	34.83	ug/l	0.00
Spiked Amount 30.000			Recovery = 116.10%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	2.045	51	284002m	96.7337	ug/l	
6) Dichlorodifluoromethane	2.026	85	236589	55.1641	ug/l	87
7) Chloromethane	2.196	50	252730	78.4958	ug/l	81
8) Bromomethane	2.556	94	193654	86.7404	ug/l	83
9) Vinyl Chloride	2.276	62	240465	68.8046	ug/l	98
10) Chloroethane	2.630	64	176032	84.6296	ug/l	93
11) Trichlorofluoromethane	2.829	101	396448	61.3119	ug/l	86
12) Ethyl ether	3.038	59	228905m	84.2923	ug/l	
13) Furan	3.080	39	321283m	60.1964	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	3.222	101	224958	74.4755	ug/l	93
15) Methylene Chloride	3.598	84	288762	123.4275	ug/l	74
16) Acrolein	3.141	56	264707	379.9307	ug/l	99
17) Acrylonitrile	3.775	53	94001	113.1276	ug/l	97
18) Iodomethane	3.366	142	296409	131.2568	ug/l	81
19) Acetone	3.254	43	268789	267.7931	ug/l	60
20) Carbon Disulfide	3.431	76	751100	114.3671	ug/l	100
21) t-Butyl Alcohol	3.038	59	213305	392.3677	ug/l	79
22) n-Hexane	4.019	57	275775m	130.7381	ug/l	
23) Di-isopropyl-ether	4.160	45	667141	109.9440	ug/l	72
24) 1,1-Dichloroethene	3.234	61	333377	73.4933	ug/l	65
25) Methyl Acetate	3.501	43	260334	101.4772	ug/l	100
26) Methyl-t-butyl ether	3.804	73	699708m	99.7387	ug/l	
27) 1,1-Dichloroethane	4.135	63	454889	124.0391	ug/l	99
28) trans-1,2-Dichloroethene	3.234	96	252319	82.3799	ug/l	79
29) Ethyl-t-butyl ether	4.411	59	748557	126.2664	ug/l	87
30) cis-1,2-Dichloroethene	4.527	61	435848	100.7023	ug/l	61
31) Bromochloromethane	4.675	49	210050	101.7398	ug/l	78
32) 2,2-Dichloropropane	4.533	77	360890	96.7880	ug/l	92
33) Ethyl acetate	4.543	43	233970m	80.9575	ug/l	
34) 1,4-Dioxane	5.569	88	47915	1481.8713	ug/l	92
35) 1,1-Dichloropropene	4.929	75	387575	115.2607	ug/l	90
36) Chloroform	4.710	83	474291	110.0990	ug/l	87
38) Cyclohexane	4.881	56	405176	148.9854	ug/l	89
40) 1,2-Dichloroethane	5.048	62	318458	85.9162	ug/l	95
41) 2-Butanone	4.533	43	143691m	93.0233	ug/l	
42) 1,1,1-Trichloroethane	4.839	97	445511	111.2094	ug/l	99
43) Carbon Tetrachloride	4.935	117	382092	92.6532	ug/l	93
44) Vinyl Acetate	4.019	43	148874	102.9951	ug/l	100
45) Bromodichloromethane	5.643	83	348088	97.4298	ug/l	95
46) Methylcyclohexane	5.501	83	454613	132.9264	ug/l	78
47) Dibromomethane	5.572	174	212646	115.1344	ug/l	93
48) 1,2-Dichloropropane	5.508	63	269547	114.3893	ug/l	92
49) Trichloroethene	5.385	130	335619	109.7157	ug/l	87
50) Benzene	5.048	78	1141221	116.9408	ug/l	100
51) tert-Amyl methyl ether	5.086	73	772706	102.4084	ug/l	64
53) Iso-propylacetate	5.038	43	467913	79.4943	ug/l	78
54) Methyl methacrylate	5.530	41	246809m	83.6160	ug/l	
55) Dibromochloromethane	6.475	129	314220	112.3250	ug/l	96
56) 2-Chloroethylvinylether	5.778	63	188564	106.1499	ug/l	88
57) cis-1,3-Dichloropropene	5.874	75	427784	100.5553	ug/l	92
58) trans-1,3-Dichloropropene	6.154	75	387297	96.0834	ug/l	99
59) Ethyl methacrylate	6.173	41	228769m	76.2599	ug/l	
60) 1,1,2-Trichloroethane	6.257	97	261046	118.7118	ug/l	93
61) 1,2-Dibromoethane	6.553	107	262470	110.9316	ug/l	91
62) 1,3-Dichloropropane	6.350	76	420497	112.1520	ug/l	99
63) 4-Methyl-2-Pentanone	5.935	43	235603	91.8742	ug/l	71
64) 2-Hexanone	6.363	43	163954	74.3392	ug/l	66
65) Tetrachloroethene	6.353	164	268151	129.8099	ug/l	97
67) Toluene	6.061	92	741806	123.5535	ug/l	97

Quantitation Report (QT Reviewed)

Sample ID : CAL @ 100 PPB
Data File: 8M12781.D
Acq On : 02/28/18 18:56

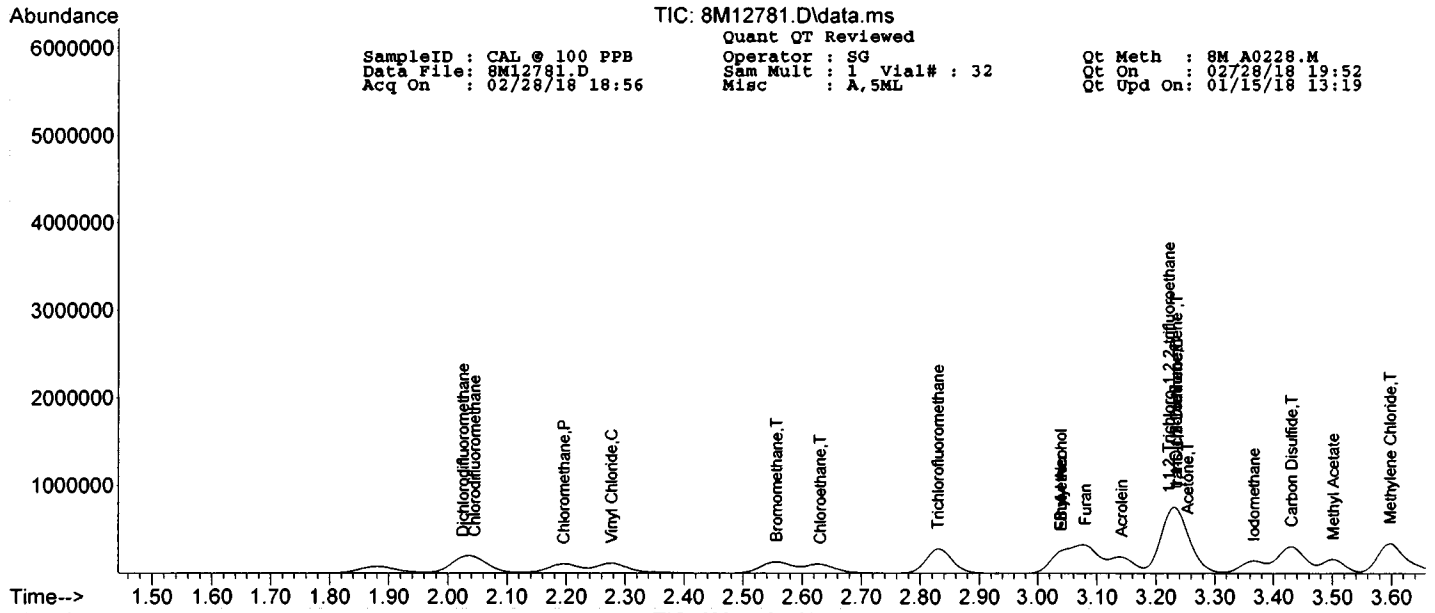
Operator : SG
Sam Mult : 1 Vial# : 32
Misc : A,5ML

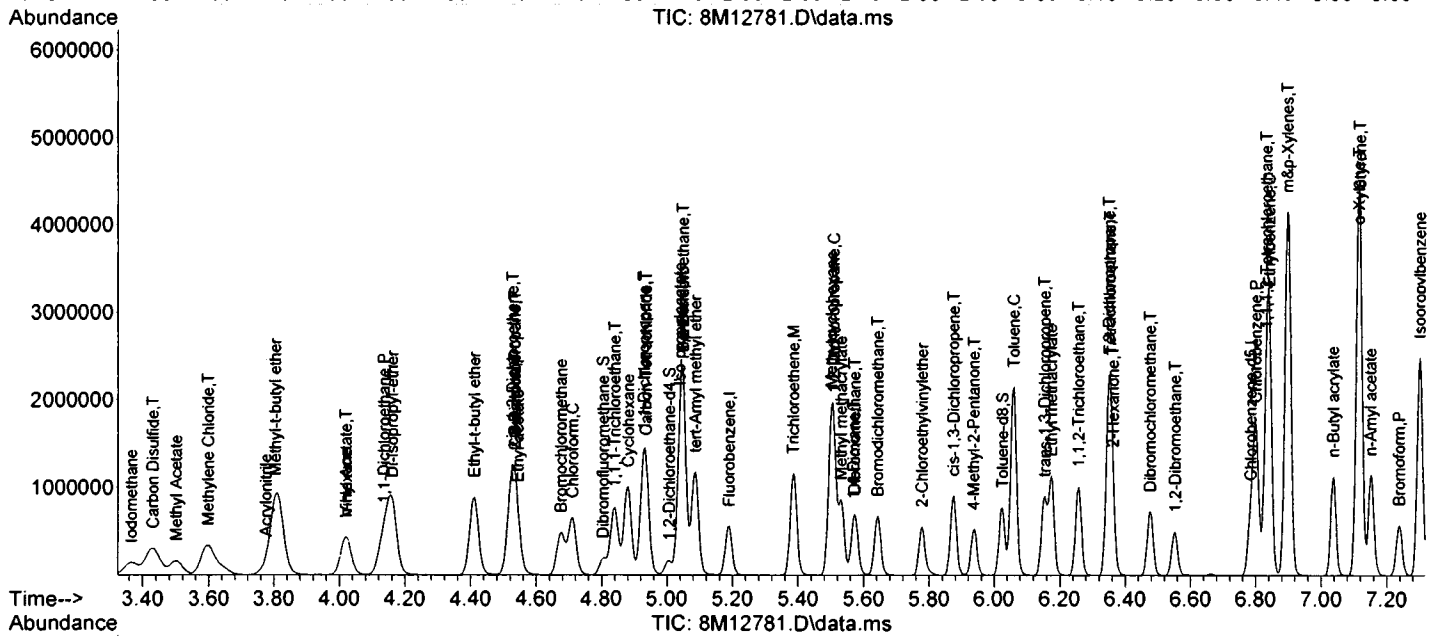
Qt Meth : 8M_A0228.M
Qt On : 02/28/18 19:52
Qt Upd On: 01/15/18 13:19

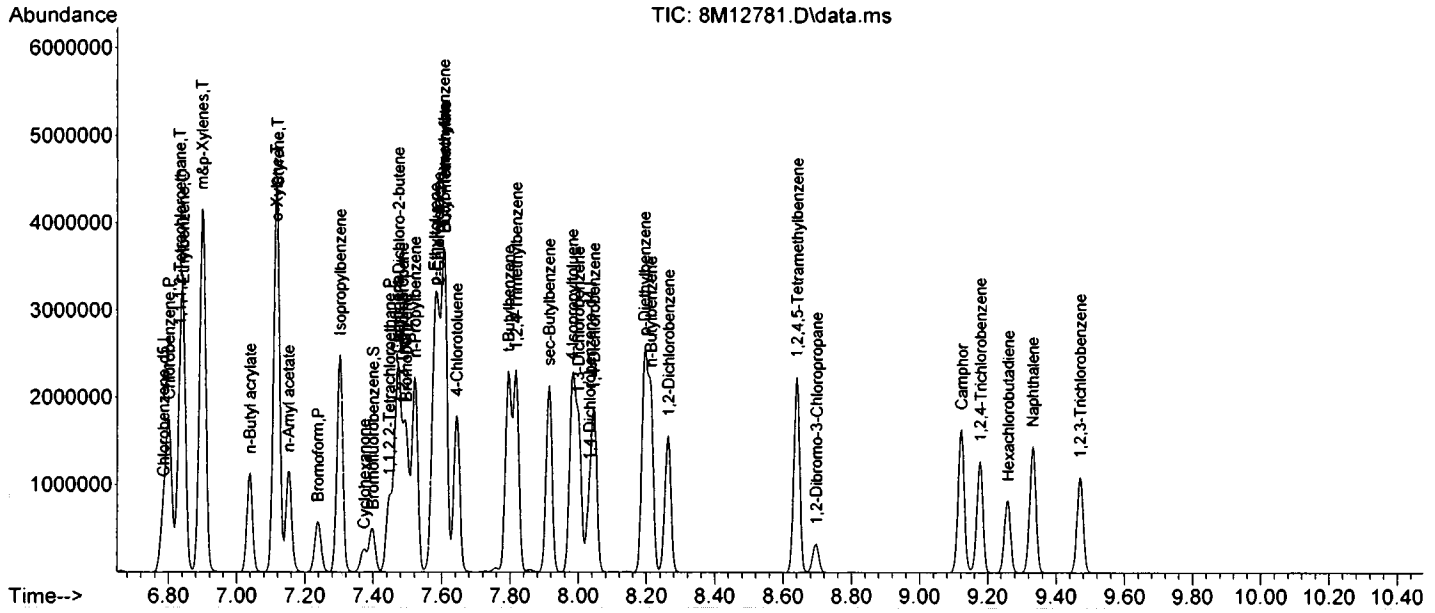
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Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.832	133	279389	110.4754	ug/l	71
69)	Chlorobenzene	6.800	112	775168	109.0720	ug/l	98
71)	n-Butyl acrylate	7.038	55	516108	93.3116	ug/l	94
72)	n-Amyl acetate	7.151	43	398933	91.0570	ug/l	70
73)	Bromoform	7.237	173	211367	108.6470	ug/l	97
74)	Ethylbenzene	6.842	106	364288	124.0367	ug/l	70
75)	1,1,2,2-Tetrachloroethane	7.447	83	322164	94.5881	ug/l	92
77)	Styrene	7.119	104	910624	125.4547	ug/l	75
78)	m&p-Xylenes	6.897	106	1027110	255.1805	ug/l	72
79)	o-Xylene	7.115	106	528739	124.3097	ug/l	62
80)	trans-1,4-Dichloro-2-b...	7.472	53	109054	70.5753	ug/l	27
81)	1,3-Dichlorobenzene	8.000	146	609192	106.0503	ug/l	82
82)	1,4-Dichlorobenzene	8.045	146	616696	107.5612	ug/l	90
83)	1,2-Dichlorobenzene	8.263	146	562136	105.1723	ug/l	85
84)	Isopropylbenzene	7.302	105	1302379	126.8950	ug/l	88
85)	Cyclohexanone	7.373	55	116531m	574.1409	ug/l	
86)	Camphene	7.469	93	416554	115.8745	ug/l	85
87)	1,2,3-Trichloropropane	7.485	75	404892	98.9554	ug/l	90
88)	2-Chlorotoluene	7.588	91	726300	108.2587	ug/l	87
89)	p-Ethyltoluene	7.578	105	1295723	110.6815	ug/l	87
90)	4-Chlorotoluene	7.643	91	702258	106.8258	ug/l	84
91)	n-Propylbenzene	7.520	91	1383146	109.3602	ug/l	90
92)	Bromobenzene	7.495	77	705676	104.7597	ug/l	52
93)	1,3,5-Trimethylbenzene	7.604	105	985017	113.9532	ug/l	82
94)	Butyl methacrylate	7.607	41	262496m	66.7661	ug/l	
95)	t-Butylbenzene	7.794	119	1070679	116.7685	ug/l	95
96)	1,2,4-Trimethylbenzene	7.816	105	1036268	110.1122	ug/l	80
97)	sec-Butylbenzene	7.913	105	1214456	111.0649	ug/l	96
98)	4-Isopropyltoluene	7.980	119	1022675	110.8312	ug/l	83
99)	n-Butylbenzene	8.212	91	1068582	99.3532	ug/l	92
100)	p-Diethylbenzene	8.192	119	687965	111.8473	ug/l	87
101)	1,2,4,5-Tetramethylben...	8.639	119	988483	90.9337	ug/l	98
102)	1,2-Dibromo-3-Chloropr...	8.697	157	88580	114.6772	ug/l	58
103)	Camphor	9.122	95	345210	752.4815	ug/l	84
104)	Hexachlorobutadiene	9.260	225	144225	135.8731	ug/l	96
105)	1,2,4-Trichlorobenzene	9.176	180	357880	116.6186	ug/l	96
106)	1,2,3-Trichlorobenzene	9.469	180	306988	110.7237	ug/l	97
107)	Naphthalene	9.331	128	971253	99.8596	ug/l	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 8M12781.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 100 PPB
Data File: 8M12781.D
Acq On : 02/28/18 18:56
Operator : SG
Sam Mult : 1 Vial# : 32
Misc : A,5ML
Qt Meth : 8M_A0228.M
Qt On : 02/28/18 19:52
Qt Upd On: 01/15/18 13:19
Dichlorodifluoromethane
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Furan
Acrolein
Acetone,I
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Time-->


Abundance
TIC: 8M12781.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Acrylonitrile
Methyl-t-butyl ether
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene,C
Toluene-d8,S
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->


Abundance
TIC: 8M12781.D\data.ms
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
4-Chlorotoluene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 250 PPB Operator : SG Qt Meth : 8M_A0228.M
Data File: 8M12779.D Sam Mult : 1 Vial# : 30 Qt On : 02/28/18 18:56
Acq On : 02/28/18 18:20 Misc : A,5ML Qt Upd On: 02/28/18 18:12

Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.189	96	423129	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.784	117	305754	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.032	152	164085	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.804	111	98137	27.37	ug/l	0.00
Spiked Amount 30.000			Recovery = 91.23%			
39) 1,2-Dichloroethane-d4	5.006	67	47768	29.26	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.53%			
66) Toluene-d8	6.025	98	415682	32.00	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.67%			
76) Bromofluorobenzene	7.398	174	130418	33.30	ug/l	0.00
Spiked Amount 30.000			Recovery = 111.00%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	2.042	51	684133	358.2645	ug/l	37
6) Dichlorodifluoromethane	2.026	85	589691	203.4642	ug/l	88
7) Chloromethane	2.196	50	615692	192.9200	ug/l	82
8) Bromomethane	2.556	94	503433	192.4072	ug/l	85
9) Vinyl Chloride	2.276	62	598037	172.6305	ug/l	96
10) Chloroethane	2.627	64	434994	201.0283	ug/l	93
11) Trichlorofluoromethane	2.833	101	986557	153.9234	ug/l	86
12) Ethyl ether	3.038	59	577582m	214.5705	ug/l	
13) Furan	3.080	39	788605m	124.2479	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	3.222	101	555898	185.6655	ug/l	92
15) Methylene Chloride	3.595	84	718130	309.6697	ug/l	74
16) Acrolein	3.141	56	656988	951.3060	ug/l	98
17) Acrylonitrile	3.775	53	233294	283.2459	ug/l	96
18) Iodomethane	3.366	142	763054	340.8864	ug/l	80
19) Acetone	3.254	43	646625	498.1649	ug/l	59
20) Carbon Disulfide	3.431	76	1851477	168.2706	ug/l	100
21) t-Butyl Alcohol	3.038	59	538716	999.7144	ug/l	78
22) n-Hexane	4.019	57	678309m	324.4133	ug/l	
23) Di-isopropyl-ether	4.161	45	1608907	267.4907	ug/l	70
24) 1,1-Dichloroethene	3.231	61	812266	180.6484	ug/l	64
25) Methyl Acetate	3.501	43	630444	247.9179	ug/l	100
26) Methyl-t-butyl ether	3.804	73	1732578m	307.3418	ug/l	
27) 1,1-Dichloroethane	4.135	63	1109265	305.1494	ug/l	98
28) trans-1,2-Dichloroethene	3.231	96	617965	203.5444	ug/l	78
29) Ethyl-t-butyl ether	4.411	59	1820040	309.7188	ug/l	86
30) cis-1,2-Dichloroethene	4.524	61	1043456	272.3435	ug/l	55
31) Bromochloromethane	4.675	49	493588	241.1884	ug/l	76
32) 2,2-Dichloropropane	4.534	77	876514	261.9092	ug/l	92
33) Ethyl acetate	4.543	43	548985m	188.8842	ug/l	
34) 1,4-Dioxane	5.569	88	152419	4755.5632	ug/l	92
35) 1,1-Dichloropropene	4.929	75	882826	264.8648	ug/l	88
36) Chloroform	4.710	83	1129123	264.4257	ug/l	87
38) Cyclohexane	4.878	56	942047	349.4592	ug/l	88
40) 1,2-Dichloroethane	5.048	62	712386	222.0668	ug/l	96
41) 2-Butanone	4.534	43	339038m	202.1758	ug/l	
42) 1,1,1-Trichloroethane	4.839	97	1030865	259.6023	ug/l	99
43) Carbon Tetrachloride	4.935	117	877202	247.4799	ug/l	94
44) Vinyl Acetate	4.019	43	360902	292.6158	ug/l	100
45) Bromodichloromethane	5.643	83	819089	231.2905	ug/l	94
46) Methylcyclohexane	5.501	83	1059422	312.5089	ug/l	78
47) Dibromomethane	5.575	174	505918	276.3452	ug/l	93
48) 1,2-Dichloropropane	5.508	63	627007	268.4398	ug/l	92
49) Trichloroethene	5.386	130	803589	265.0209	ug/l	87
50) Benzene	5.048	78	2620114	270.8572	ug/l	100
51) tert-Amyl methyl ether	5.087	73	1831331	284.2961	ug/l	64
53) Iso-propylacetate	5.038	43	1011944	200.8211	ug/l	74
54) Methyl methacrylate	5.534	41	595904m	228.0472	ug/l	
55) Dibromochloromethane	6.479	129	813238	285.3144	ug/l	97
56) 2-Chloroethylvinylether	5.778	63	482473	327.7754	ug/l	87
57) cis-1,3-Dichloropropene	5.874	75	1094515	312.2661	ug/l	92
58) trans-1,3-Dichloropropene	6.154	75	979299	285.6580	ug/l	98
59) Ethyl methacrylate	6.173	41	570606m	219.1852	ug/l	
60) 1,1,2-Trichloroethane	6.257	97	656415	292.9670	ug/l	92
61) 1,2-Dibromoethane	6.553	107	692494	287.2468	ug/l	91
62) 1,3-Dichloropropane	6.350	76	1049199	274.6409	ug/l	99
63) 4-Methyl-2-Pentanone	5.939	43	584823	223.8209	ug/l	70
64) 2-Hexanone	6.363	43	398801	198.6197	ug/l	65
65) Tetrachloroethene	6.353	164	666168	316.5014	ug/l	97
67) Toluene	6.061	92	1826335	298.5441	ug/l	100

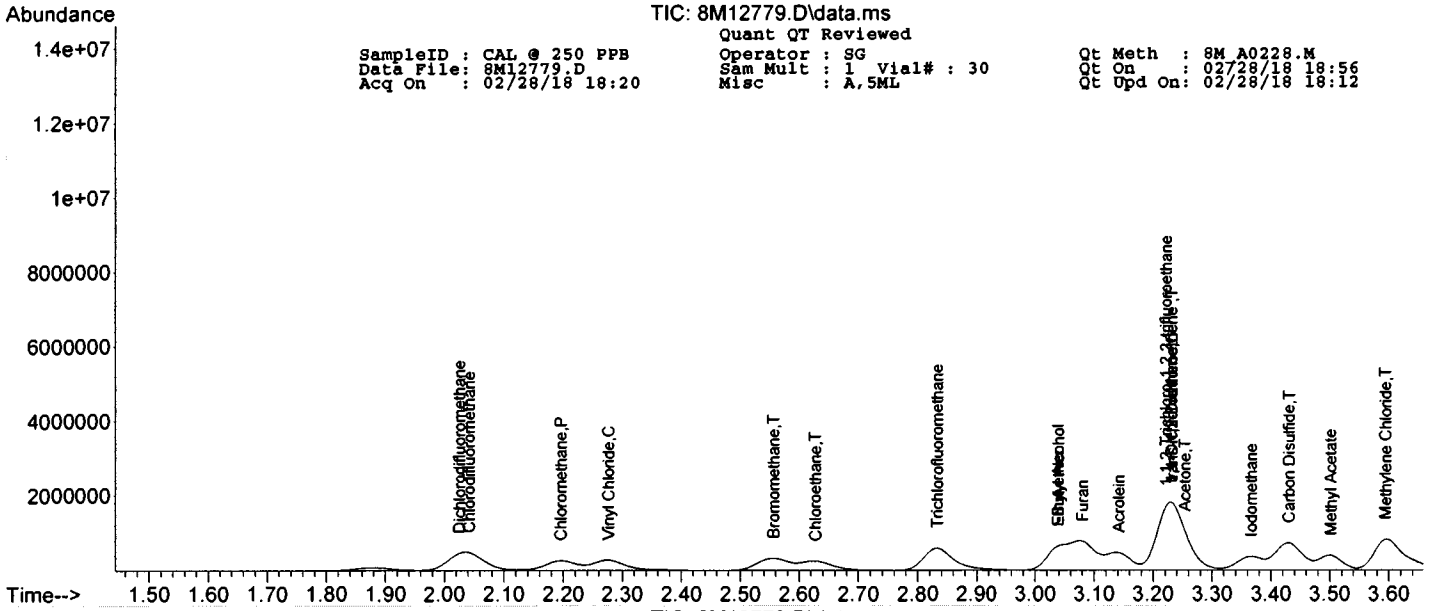
Quantitation Report (QT Reviewed)

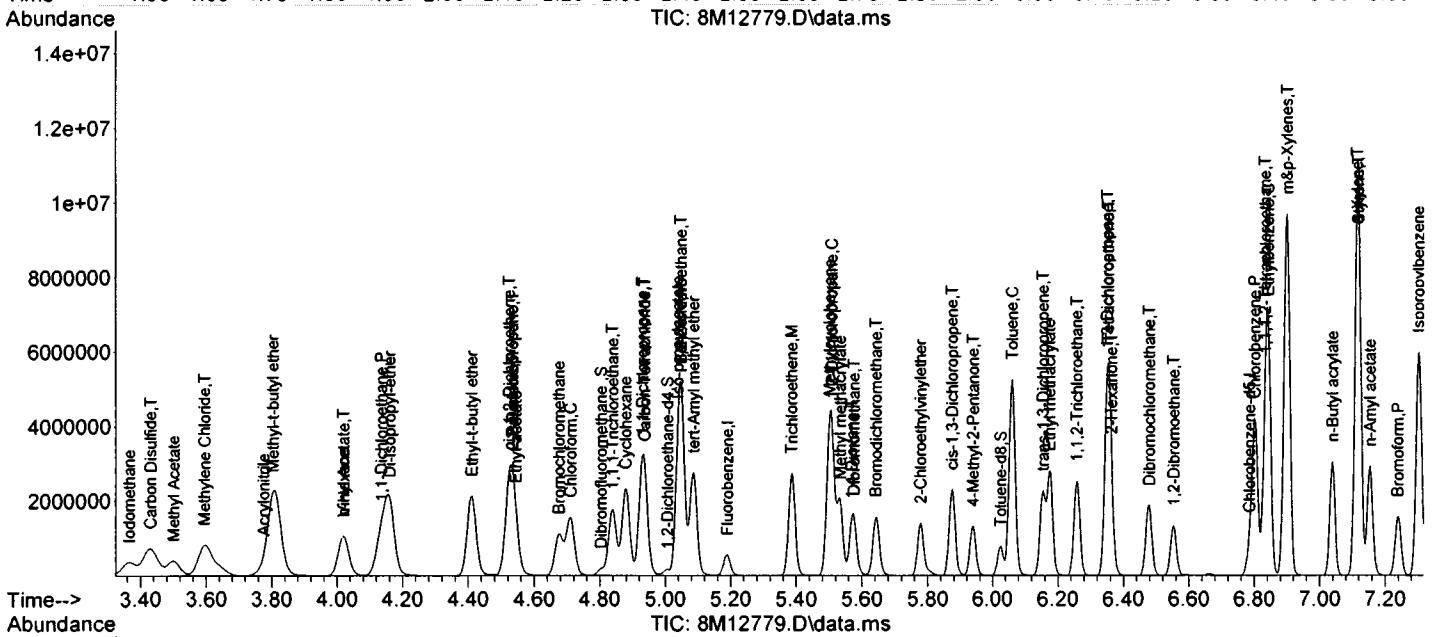
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Data File: 8M12779.D Sam Mult : 1 Vial# : 30 Qt On : 02/28/18 18:56
Acq On : 02/28/18 18:20 Misc : A,5ML Qt Upd On: 02/28/18 18:12

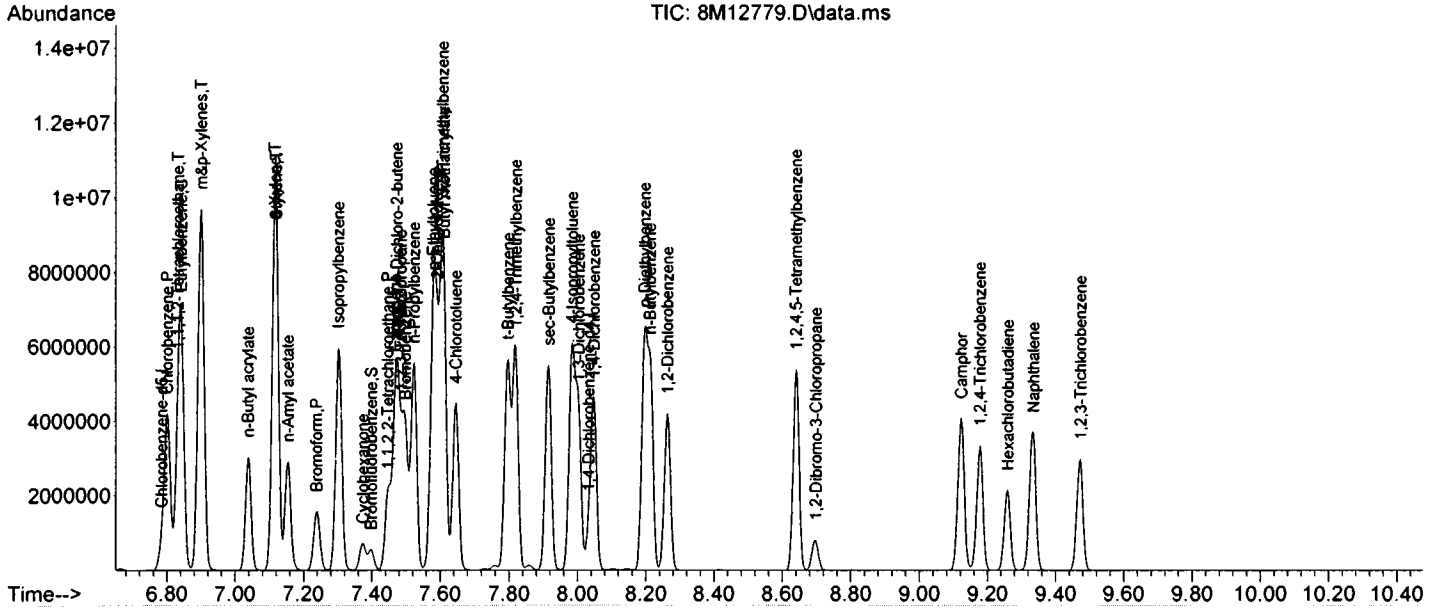
Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.832	133	638676	247.8564	ug/l	71
69)	Chlorobenzene	6.800	112	1912950	264.1705	ug/l	97
71)	n-Butyl acrylate	7.038	55	1359665	269.2400	ug/l	93
72)	n-Amyl acetate	7.154	43	1009400m	210.1198	ug/l	
73)	Bromoform	7.238	173	578229	271.0634	ug/l	96
74)	Ethylbenzene	6.842	106	823488	255.7131	ug/l	66
75)	1,1,2,2-Tetrachloroethane	7.447	83	823942	220.6209	ug/l	92
77)	Styrene	7.119	104	2208981	277.5431	ug/l	77
78)	m&p-Xylenes	6.900	106	2399182	543.6059	ug/l	68
79)	o-Xylene	7.115	106	1302063	279.1811	ug/l	60
80)	trans-1,4-Dichloro-2-b...	7.472	53	265513	193.1925	ug/l	20
81)	1,3-Dichlorobenzene	8.003	146	1591806	252.7192	ug/l	83
82)	1,4-Dichlorobenzene	8.048	146	1612426	256.4807	ug/l	91
83)	1,2-Dichlorobenzene	8.263	146	1506453	257.0431	ug/l	85
84)	Isopropylbenzene	7.302	105	3210026	285.2371	ug/l	87
85)	Cyclohexanone	7.373	55	305926m	1374.6237	ug/l	
86)	Camphene	7.469	93	1023887	259.7522	ug/l	85
87)	1,2,3-Trichloropropane	7.485	75	1008227	224.7237	ug/l	90
88)	2-Chlorotoluene	7.591	91	1760520	239.3196	ug/l	87
89)	p-Ethyltoluene	7.578	105	3354800	261.3485	ug/l	85
90)	4-Chlorotoluene	7.646	91	1734128	240.5753	ug/l	83
91)	n-Propylbenzene	7.524	91	3462680	249.6860	ug/l	89
92)	Bromobenzene	7.498	77	1762614	238.6363	ug/l	52
93)	1,3,5-Trimethylbenzene	7.607	105	2262897	238.7470	ug/l	74
94)	Butyl methacrylate	7.611	41	647926m	166.0287	ug/l	
95)	t-Butylbenzene	7.797	119	2670852	265.6480	ug/l	96
96)	1,2,4-Trimethylbenzene	7.820	105	2705970	262.2266	ug/l	80
97)	sec-Butylbenzene	7.916	105	3147460	262.5098	ug/l	95
98)	4-Isopropyltoluene	7.984	119	2680074	264.8876	ug/l	83
99)	n-Butylbenzene	8.212	91	2784464	236.1056	ug/l	92
100)	p-Diethylbenzene	8.196	119	1765707	261.7991	ug/l	88
101)	1,2,4,5-Tetramethylben...	8.639	119	2406300	263.0100	ug/l	99
102)	1,2-Dibromo-3-Chloropr...	8.697	157	221973	262.0789	ug/l	57
103)	Camphor	9.122	95	908099	2100.9864	ug/l	84
104)	Hexachlorobutadiene	9.260	225	367480	315.7310	ug/l	96
105)	1,2,4-Trichlorobenzene	9.176	180	927738	275.7060	ug/l	96
106)	1,2,3-Trichlorobenzene	9.472	180	832273	273.7634	ug/l	98
107)	Naphthalene	9.334	128	2548464	238.9607	ug/l	85

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 8M12779.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 250 PPB
Data File: 8M12779.D
Acq On : 02/28/18 18:20
Operator : SG
Sam Mult : 1 Vial# : 30
Misc : A,5ML
Qt Meth : 8M_A0228.M
Qt On : 02/28/18 18:56
Qt Upd On: 02/28/18 18:12
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Furan
Acrolein
Acetone,I
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Time-->


Abundance
TIC: 8M12779.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Methyl-t-butyl ether
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->


Abundance
TIC: 8M12779.D\data.ms
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
4-Chlorotoluene
t-Butylbenzene
sec-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Data File: 8M12777.D
SampleID : CAL @ 500 PPB
Acq On : 02/28/18 17:44
Operator : SG
Sam Mult : 1 Vial# : 28
Misc : A,5ML
Qt Meth : 8M_A0228.M
Qt On : 02/28/18 18:12
Qt Upd On: 02/28/18 18:12

Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.190	96	404425	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.788	117	310468	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.035	152	155502	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.804	111	95989	28.01	ug/l	0.00
Spiked Amount 30.000			Recovery = 93.37%			
39) 1,2-Dichloroethane-d4	5.006	67	47860	30.67	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.23%			
66) Toluene-d8	6.026	98	392180	29.73	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.10%			
76) Bromofluorobenzene	7.398	174	126477	34.08	ug/l	0.00
Spiked Amount 30.000			Recovery = 113.60%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	2.042	51	1400649m	767.4098	ug/l	
6) Dichlorodifluoromethane	2.026	85	1203249	434.3641	ug/l	89
7) Chloromethane	2.196	50	1350310m	442.6719	ug/l	
8) Bromomethane	2.556	94	1003501	401.2660	ug/l	83
9) Vinyl Chloride	2.276	62	1187687	358.6958	ug/l	96
10) Chloroethane	2.627	64	853856	412.8510	ug/l	93
11) Trichlorofluoromethane	2.833	101	1958699	319.7311	ug/l	86
12) Ethyl ether	3.039	59	1020180	396.5225	ug/l	64
13) Furan	3.080	39	1514696m	249.6836	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	3.222	101	1080347	377.5149	ug/l	93
15) Methylene Chloride	3.598	84	1348392	608.3404	ug/l	74
16) Acrolein	3.141	56	1249428	1892.8179	ug/l	99
17) Acrylonitrile	3.775	53	448388	569.5724	ug/l	95
18) Iodomethane	3.366	142	1474338	689.1064	ug/l	80
19) Acetone	3.254	43	1207354	973.1731	ug/l	59
20) Carbon Disulfide	3.431	76	3506724	333.4466	ug/l	100
21) t-Butyl Alcohol	3.039	59	1020180	1980.7409	ug/l	79
22) n-Hexane	4.019	57	1348503m	674.7732	ug/l	
23) Di-isopropyl-ether	4.161	45	3055165	531.4313	ug/l	70
24) 1,1-Dichloroethene	3.235	61	1582507	368.2276	ug/l	65
25) Methyl Acetate	3.502	43	1206445	496.3679	ug/l	100
26) Methyl-t-butyl ether	3.804	73	3246310m	602.4953	ug/l	
27) 1,1-Dichloroethane	4.135	63	2140925	616.1882	ug/l	98
28) trans-1,2-Dichloroethene	3.235	96	1195719	412.0587	ug/l	78
29) Ethyl-t-butyl ether	4.411	59	3465193	616.9485	ug/l	86
30) cis-1,2-Dichloroethene	4.527	61	2025279	553.0476	ug/l	59
31) Bromochloromethane	4.675	49	970964	496.3977	ug/l	80
32) 2,2-Dichloropropane	4.534	77	1765683	552.0004	ug/l	92
33) Ethyl acetate	4.543	43	1166286m	419.8314	ug/l	
34) 1,4-Dioxane	5.569	88	213786	6978.7382	ug/l	93
35) 1,1-Dichloropropene	4.929	75	1820090	571.3166	ug/l	89
36) Chloroform	4.710	83	2209395	541.3405	ug/l	88
38) Cyclohexane	4.881	56	1956507	759.3468	ug/l	89
40) 1,2-Dichloroethane	5.048	62	1415799	461.7476	ug/l	96
41) 2-Butanone	4.534	43	641957m	400.5176	ug/l	
42) 1,1,1-Trichloroethane	4.839	97	2122666	559.2723	ug/l	99
43) Carbon Tetrachloride	4.936	117	1818877	536.8814	ug/l	94
44) Vinyl Acetate	4.019	43	715109	606.6183	ug/l	100
45) Bromodichloromethane	5.643	83	1644064	485.7135	ug/l	95
46) Methylcyclohexane	5.501	83	2157071	665.7215	ug/l	78
47) Dibromomethane	5.575	174	976489	558.0511	ug/l	94
48) 1,2-Dichloropropane	5.511	63	1251192	560.4454	ug/l	92
49) Trichloroethene	5.386	130	1591603	549.1812	ug/l	88
50) Benzene	5.048	78	5075739	548.9772	ug/l	100
51) tert-Amyl methyl ether	5.087	73	3522435	572.1131	ug/l	64
53) Iso-propylacetate	5.038	43	2088245	408.1216	ug/l	75
54) Methyl methacrylate	5.534	41	1164446m	438.8571	ug/l	
55) Dibromochloromethane	6.479	129	1527556	527.7867	ug/l	96
56) 2-Chloroethylvinylether	5.778	63	906975	606.8117	ug/l	87
57) cis-1,3-Dichloropropene	5.874	75	2057666	578.1404	ug/l	92
58) trans-1,3-Dichloropropene	6.154	75	1836704	527.6252	ug/l	97
59) Ethyl methacrylate	6.177	41	1063933m	402.4801	ug/l	
60) 1,1,2-Trichloroethane	6.260	97	1219087	535.8339	ug/l	92
61) 1,2-Dibromoethane	6.553	107	1322712	540.3308	ug/l	91
62) 1,3-Dichloropropane	6.350	76	1920041	494.9635	ug/l	100
63) 4-Methyl-2-Pentanone	5.939	43	1122120	422.9323	ug/l	69
64) 2-Hexanone	6.366	43	759258	372.4010	ug/l	65
65) Tetrachloroethene	6.353	164	1236757	578.6707	ug/l	95
67) Toluene	6.061	92	3370571	542.6088	ug/l	95

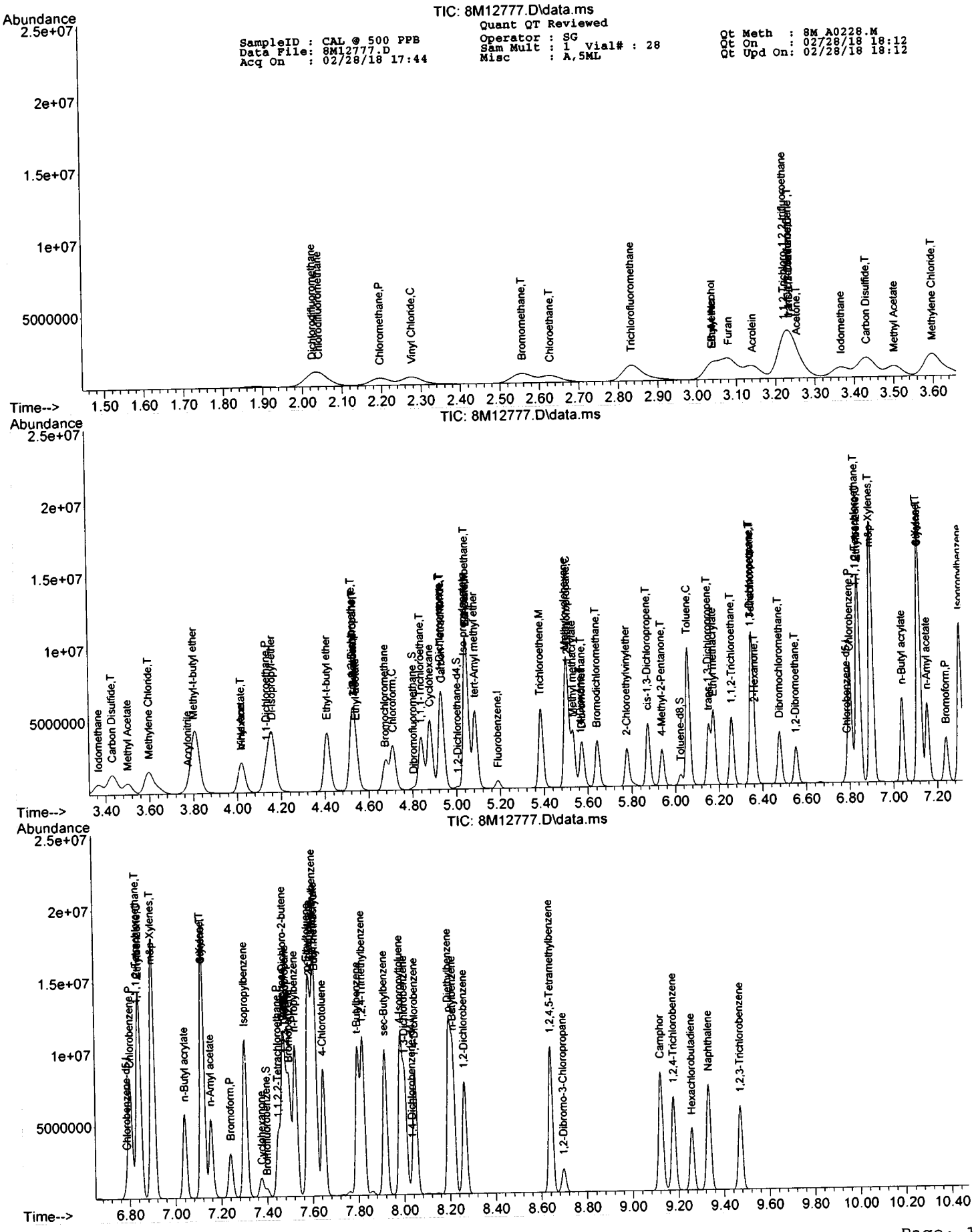
Quantitation Report (QT Reviewed)

SampleID : CAL @ 500 PPB Operator : SG Qt Meth : 8M_A0228.M
Data File: 8M12777.D Sam Mult : 1 Vial# : 28 Qt On : 02/28/18 18:12
Acq On : 02/28/18 17:44 Misc : A,5ML Qt Upd On: 02/28/18 18:12

Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.836	133	1298849	496.4021	ug/l	71
69)	Chlorobenzene	6.804	112	3757281	510.9869	ug/l	95
71)	n-Butyl acrylate	7.042	55	2687104	561.4680	ug/l	93
72)	n-Amyl acetate	7.154	43	1883504m	413.7167	ug/l	
73)	Bromoform	7.241	173	1098619	543.4394	ug/l	96
74)	Ethylbenzene	6.842	106	1651712	541.2064	ug/l	59
75)	1,1,2,2-Tetrachloroethane	7.450	83	1653060	467.0587	ug/l	93
77)	Styrene	7.119	104	3839367	509.0154	ug/l	80
78)	m&p-Xylenes	6.900	106	4615984	1103.6165	ug/l	60
79)	o-Xylene	7.116	106	2312050	523.0992	ug/l	58
80)	trans-1,4-Dichloro-2-b...	7.476	53	555644	426.6128	ug/l	20
81)	1,3-Dichlorobenzene	8.003	146	2921640	489.4493	ug/l	84
82)	1,4-Dichlorobenzene	8.048	146	2995264	502.7393	ug/l	92
83)	1,2-Dichlorobenzene	8.263	146	2801739	504.4417	ug/l	86
84)	Isopropylbenzene	7.305	105	5832249	546.8477	ug/l	87
85)	Cyclohexanone	7.376	55	583817m	2768.0700	ug/l	
86)	Camphene	7.472	93	2072006	554.6654	ug/l	86
87)	1,2,3-Trichloropropane	7.485	75	2056911	483.7700	ug/l	90
88)	2-Chlorotoluene	7.591	91	3282482	470.8392	ug/l	88
89)	p-Ethyltoluene	7.582	105	5876939	483.1005	ug/l	91
90)	4-Chlorotoluene	7.646	91	3313181	485.0069	ug/l	83
91)	n-Propylbenzene	7.524	91	6429134	489.1784	ug/l	85
92)	Bromobenzene	7.498	77	3550684	507.2526	ug/l	51
93)	1,3,5-Trimethylbenzene	7.607	105	4411593	491.1356	ug/l	79
94)	Butyl methacrylate	7.614	41	1263212m	341.5599	ug/l	
95)	t-Butylbenzene	7.797	119	4871416	511.2636	ug/l	97
96)	1,2,4-Trimethylbenzene	7.820	105	4830683	493.9639	ug/l	79
97)	sec-Butylbenzene	7.916	105	5656285	497.7938	ug/l	92
98)	4-Isopropyltoluene	7.984	119	4857474	506.5919	ug/l	83
99)	n-Butylbenzene	8.215	91	5132045	459.1853	ug/l	93
100)	p-Diethylbenzene	8.196	119	3290375	514.7874	ug/l	89
101)	1,2,4,5-Tetramethylben...	8.643	119	4526134	522.0147	ug/l	99
102)	1,2-Dibromo-3-Chloropr...	8.697	157	447187	557.1268	ug/l	58
103)	Camphor	9.122	95	1842050	4497.0153	ug/l	84
104)	Hexachlorobutadiene	9.260	225	724348	656.6949	ug/l	96
105)	1,2,4-Trichlorobenzene	9.180	180	1803442	565.5305	ug/l	96
106)	1,2,3-Trichlorobenzene	9.472	180	1601644	555.9151	ug/l	98
107)	Naphthalene	9.334	128	4862962	481.1514	ug/l	86

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 8M12777.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 500 PPB
Data File: 8M12777.D
Acq On : 02/28/18 17:44
Operator : SG
Sam Mult : 1 Vial# : 28
Misc : A,5ML
Qt Meth : 8M_A0228.M
Qt On : 02/28/18 18:12
Qt Upd On: 02/28/18 18:12
Abundance
Time-->

Quantitation Report (QT Reviewed)

8022222 0153

SampleID : CAL @ 1 PPB Operator : SG Qt Meth : 8M_A0228.M
Data File: 8M12773.D Sam Mult : 1 Vial# : 24 Qt On : 02/28/18 18:25
Acq On : 02/28/18 16:33 Misc : A,5ML Qt Upd On: 02/28/18 18:12

Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.186	96	401455	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.784	117	301686	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.032	152	146135	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.803	111	93632	27.53	ug/l	0.00
Spiked Amount 30.000			Recovery = 91.77%			
39) 1,2-Dichloroethane-d4	5.003	67	47546	30.69	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.30%			
66) Toluene-d8	6.022	98	385210	30.05	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.17%			
76) Bromofluorobenzene	7.398	174	119233	34.18	ug/l	0.00
Spiked Amount 30.000			Recovery = 113.93%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	2.042	51	2869m	1.5835	ug/l	
6) Dichlorodifluoromethane	2.035	85	1612m	0.5862	ug/l	
7) Chloromethane	2.202	50	2155	0.7117	ug/l	70
8) Bromomethane	2.550	94	1908	0.7686	ug/l	84
9) Vinyl Chloride	2.276	62	1835	0.5583	ug/l	88
10) Chloroethane	2.633	64	1345	0.6551	ug/l	84
11) Trichlorofluoromethane	2.829	101	3208	0.5275	ug/l	83
12) Ethyl ether	3.038	59	1707	0.6684	ug/l	68
13) Furan	3.077	39	2984m	0.4955	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	3.218	101	1755	0.6178	ug/l	94
15) Methylene Chloride	3.594	84	2693	1.2240	ug/l	78
16) Acrolein	3.144	56	2107	3.2156	ug/l	93
17) Acrylonitrile	3.778	53	548	0.7013	ug/l	96
18) Iodomethane	3.366	142	1393	0.6559	ug/l	82
19) Acetone	3.257	43	2958	2.4019	ug/l	69
20) Carbon Disulfide	3.424	76	6985	0.6691	ug/l	100
21) t-Butyl Alcohol	3.038	59	1707	3.3388	ug/l	50
22) n-Hexane	4.025	57	1824m	0.9195	ug/l	
23) Di-isopropyl-ether	4.160	45	5182	0.9081	ug/l	66
24) 1,1-Dichloroethene	3.234	61	2882	0.6756	ug/l	67
25) Methyl Acetate	3.501	43	2179	0.9031	ug/l	100
26) Methyl-t-butyl ether	3.803	73	5661m	1.0584	ug/l	
27) 1,1-Dichloroethane	4.135	63	3861	1.1195	ug/l	97
28) trans-1,2-Dichloroethene	3.234	96	2203	0.7648	ug/l	79
29) Ethyl-t-butyl ether	4.408	59	5687	1.0200	ug/l	88
30) cis-1,2-Dichloroethene	4.524	61	3614	0.9942	ug/l	66
31) Bromochloromethane	4.675	49	1882m	0.9693	ug/l	
32) 2,2-Dichloropropane	4.530	77	3302	1.0399	ug/l	97
33) Ethyl acetate	4.543	43	1999m	0.7249	ug/l	
34) 1,4-Dioxane	5.565	88	335	11.0165	ug/l	88
35) 1,1-Dichloropropene	4.929	75	3007	0.9509	ug/l	82
36) Chloroform	4.710	83	4252	1.0495	ug/l	79
38) Cyclohexane	4.881	56	2825	1.1045	ug/l	89
40) 1,2-Dichloroethane	5.048	62	2940	0.9659	ug/l	92
41) 2-Butanone	4.530	43	1019m	0.6405	ug/l	
42) 1,1,1-Trichloroethane	4.839	97	3868	1.0267	ug/l	95
43) Carbon Tetrachloride	4.935	117	2941	0.8745	ug/l	98
44) Vinyl Acetate	4.019	43	1017	0.8691	ug/l	100
45) Bromodichloromethane	5.643	83	2870	0.8542	ug/l	93
46) Methylcyclohexane	5.501	83	3212	0.9986	ug/l	77
47) Dibromomethane	5.572	174	1817	1.0461	ug/l	98
48) 1,2-Dichloropropane	5.508	63	2243	1.0121	ug/l	100
49) Trichloroethene	5.385	130	2841	0.9875	ug/l	90
50) Benzene	5.048	78	9748	1.0621	ug/l	100
51) tert-Amyl methyl ether	5.083	73	5520	0.9032	ug/l	69
53) Iso-propylacetate	5.038	43	3840	0.7723	ug/l	86
54) Methyl methacrylate	5.533	41	1934m	0.7501	ug/l	
55) Dibromochloromethane	6.475	129	2471	0.8786	ug/l	99
56) 2-Chloroethylvinylether	5.778	63	1232	0.8483	ug/l	95
57) cis-1,3-Dichloropropene	5.874	75	3316	0.9588	ug/l	97
58) trans-1,3-Dichloropropene	6.154	75	3118	0.9218	ug/l	95
59) Ethyl methacrylate	6.173	41	1643m	0.6396	ug/l	
60) 1,1,2-Trichloroethane	6.257	97	2288	1.0349	ug/l	97
61) 1,2-Dibromoethane	6.553	107	2186	0.9190	ug/l	88
62) 1,3-Dichloropropane	6.347	76	3605	0.9564	ug/l	98
63) 4-Methyl-2-Pentanone	5.935	43	1713	0.6644	ug/l	83
64) 2-Hexanone	6.363	43	1098	0.5542	ug/l	60
65) Tetrachloroethene	6.353	164	2218	1.0680	ug/l	91
67) Toluene	6.057	92	6748	1.1179	ug/l	98

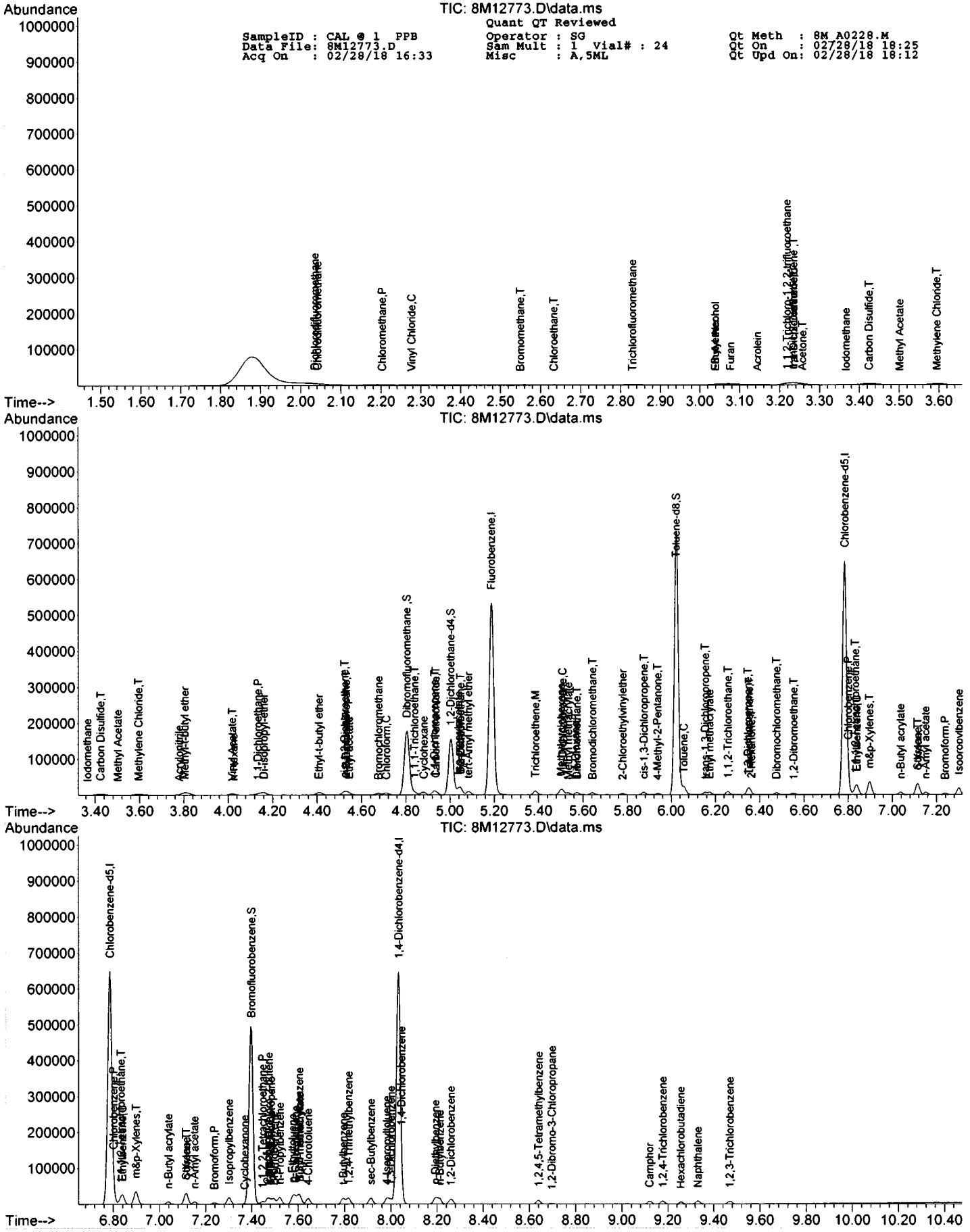
Quantitation Report (QT Reviewed)

SampleID : CAL @ 1 PPB Operator : SG Qt Meth : 8M_A0228.M
Data File: 8M12773.D Sam Mult : 1 Vial# : 24 Qt On : 02/28/18 18:25
Acq On : 02/28/18 16:33 Misc : A,5ML Qt Upd On: 02/28/18 18:12

Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.832	133	2158	0.8488	ug/l	69
69)	Chlorobenzene	6.800	112	7280	1.0189	ug/l	96
71)	n-Butyl acrylate	7.038	55	3306	0.7351	ug/l	94
72)	n-Amyl acetate	7.151	43	2521	0.5892	ug/l	80
73)	Bromoform	7.237	173	1597	0.8406	ug/l	99
74)	Ethylbenzene	6.839	106	3038	1.0592	ug/l	62
75)	1,1,2,2-Tetrachloroethane	7.446	83	3007	0.9041	ug/l	90
77)	Styrene	7.115	104	6181	0.8720	ug/l	74
78)	m&p-Xylenes	6.897	106	8456	2.1513	ug/l	74
79)	o-Xylene	7.115	106	3852	0.9274	ug/l	60
80)	trans-1,4-Dichloro-2-b...	7.472	53	944	0.7712	ug/l	53
81)	1,3-Dichlorobenzene	7.999	146	5331	0.9503	ug/l	84
82)	1,4-Dichlorobenzene	8.044	146	5906	1.0548	ug/l	88
83)	1,2-Dichlorobenzene	8.260	146	5073	0.9719	ug/l	87
84)	Isopropylbenzene	7.302	105	10023	1.0000	ug/l	90
85)	Cyclohexanone	7.369	55	1061m	5.3530	ug/l	
86)	Camphene	7.469	93	3182	0.9064	ug/l	87
87)	1,2,3-Trichloropropane	7.482	75	3553	0.8892	ug/l	91
88)	2-Chlorotoluene	7.588	91	6488	0.9903	ug/l	89
89)	p-Ethyltoluene	7.575	105	10516	0.9199	ug/l	84
90)	4-Chlorotoluene	7.643	91	6391	0.9955	ug/l	83
91)	n-Propylbenzene	7.520	91	11960	0.9683	ug/l	95
92)	Bromobenzene	7.495	77	6727	1.0226	ug/l	52
93)	1,3,5-Trimethylbenzene	7.604	105	8023	0.9504	ug/l	79
94)	Butyl methacrylate	7.607	41	1940m	0.5582	ug/l	
95)	t-Butylbenzene	7.794	119	8170	0.9124	ug/l	94
96)	1,2,4-Trimethylbenzene	7.816	105	7800	0.8487	ug/l	80
97)	sec-Butylbenzene	7.913	105	9437	0.8838	ug/l	99
98)	4-Isopropyltoluene	7.980	119	7300	0.8101	ug/l	86
99)	n-Butylbenzene	8.212	91	8139	0.7749	ug/l	86
100)	p-Diethylbenzene	8.192	119	4728	0.7871	ug/l	85
101)	1,2,4,5-Tetramethylben...	8.639	119	5200	0.6382	ug/l	95
102)	1,2-Dibromo-3-Chloropr...	8.697	157	576	0.7636	ug/l	60
103)	Camphor	9.118	95	1738	4.5150	ug/l	90
104)	Hexachlorobutadiene	9.257	225	1063	1.0255	ug/l	98
105)	1,2,4-Trichlorobenzene	9.176	180	2522	0.8416	ug/l	93
106)	1,2,3-Trichlorobenzene	9.469	180	2348	0.8672	ug/l	95
107)	Naphthalene	9.331	128	6231	0.6560	ug/l	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 8M12773.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 1 PPB
Data File: 8M12773.D
Acq On : 02/28/18 16:33
Operator : SG
Sam Mult : 1 Vial# : 24
Misc : A,5ML
Qt Meth : 8M_A0228.M
Qt On : 02/28/18 18:25
Qt Upd On: 02/28/18 18:12
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Time-->
Abundance
TIC: 8M12773.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Dibromofluoromethane ,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isooctylbenzene
Time-->
Abundance
TIC: 8M12773.D\data.ms
Chlorobenzene-d5,I
Chlorobenzene,P
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
1,4-Dichlorobenzene-d4,I
sec-Butylbenzene
1,4-Dichlorobenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

8022222 0156

Sample ID : CAL @ 0.5 PPB
Data File: 8M12772.D
Acq On : 02/28/18 16:15
Operator : SG
Sam Mult : 1 Vial# : 23
Misc : A,5ML
Qt Meth : 8M_A022818
Qt On : 02/28/18 18:27
Qt Upd On: 02/28/18 18:12

Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.186	96	429901	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.784	117	328337	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.032	152	162785	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.804	111	101051	27.74	ug/l	0.00
Spiked Amount 30.000			Recovery = 92.47%			
39) 1,2-Dichloroethane-d4	5.003	67	53416	32.20	ug/l	0.00
Spiked Amount 30.000			Recovery = 107.33%			
66) Toluene-d8	6.022	98	416494	29.86	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.53%			
76) Bromofluorobenzene	7.398	174	131103	33.74	ug/l	0.00
Spiked Amount 30.000			Recovery = 112.47%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	0.000		0	N.D.		
6) Dichlorodifluoromethane	0.000		0	N.D. d		
7) Chloromethane	0.000		0	N.D. d		
8) Bromomethane	0.000		0	N.D. d		
9) Vinyl Chloride	0.000		0	N.D. d		
10) Chloroethane	0.000		0	N.D. d		
11) Trichlorofluoromethane	0.000		0	N.D. d		
12) Ethyl ether	0.000		0	N.D. d		
13) Furan	0.000		0	N.D. d		
14) 1,1,2-Trichloro-1,2,2-...	0.000		0	N.D. d		
15) Methylene Chloride	0.000		0	N.D. d		
16) Acrolein	0.000		0	N.D. d		
17) Acrylonitrile	0.000		0	N.D.		
18) Iodomethane	0.000		0	N.D. d		
19) Acetone	0.000		0	N.D. d		
20) Carbon Disulfide	0.000		0	N.D. d		
21) t-Butyl Alcohol	0.000		0	N.D. d		
22) n-Hexane	0.000		0	N.D. d		
23) Di-isopropyl-ether	0.000		0	N.D. d		
24) 1,1-Dichloroethene	0.000		0	N.D. d		
25) Methyl Acetate	0.000		0	N.D. d		
26) Methyl-t-butyl ether	3.807	73	2870m	0.5011	ug/l	
27) 1,1-Dichloroethane	0.000		0	N.D. d		
28) trans-1,2-Dichloroethene	0.000		0	N.D. d		
29) Ethyl-t-butyl ether	0.000		0	N.D. d		
30) cis-1,2-Dichloroethene	0.000		0	N.D. d		
31) Bromochloromethane	0.000		0	N.D. d		
32) 2,2-Dichloropropane	0.000		0	N.D. d		
33) Ethyl acetate	0.000		0	N.D. d		
34) 1,4-Dioxane	0.000		0	N.D. d		
35) 1,1-Dichloropropene	0.000		0	N.D. d		
36) Chloroform	0.000		0	N.D. d		
38) Cyclohexane	0.000		0	N.D. d		
40) 1,2-Dichloroethane	5.045	62	1583	0.4857	ug/l	89
41) 2-Butanone	0.000		0	N.D. d		
42) 1,1,1-Trichloroethane	0.000		0	N.D. d		
43) Carbon Tetrachloride	0.000		0	N.D. d		
44) Vinyl Acetate	0.000		0	N.D. d		
45) Bromodichloromethane	0.000		0	N.D. d		
46) Methylcyclohexane	0.000		0	N.D. d		
47) Dibromomethane	0.000		0	N.D. d		
48) 1,2-Dichloropropane	0.000		0	N.D. d		
49) Trichloroethene	0.000		0	N.D. d		
50) Benzene	5.048	78	5193	0.5284	ug/l	100
51) tert-Amyl methyl ether	0.000		0	N.D. d		
53) Iso-propylacetate	0.000		0	N.D. d		
54) Methyl methacrylate	0.000		0	N.D. d		
55) Dibromochloromethane	0.000		0	N.D. d		
56) 2-Chloroethylvinylether	0.000		0	N.D. d		
57) cis-1,3-Dichloropropene	0.000		0	N.D. d		
58) trans-1,3-Dichloropropene	0.000		0	N.D. d		
59) Ethyl methacrylate	0.000		0	N.D. d		
60) 1,1,2-Trichloroethane	0.000		0	N.D. d		
61) 1,2-Dibromoethane	0.000		0	N.D. d		
62) 1,3-Dichloropropane	0.000		0	N.D. d		
63) 4-Methyl-2-Pentanone	0.000		0	N.D. d		
64) 2-Hexanone	0.000		0	N.D. d		
65) Tetrachloroethene	0.000		0	N.D. d		
67) Toluene	0.000		0	N.D. d		

Quantitation Report (QT Reviewed)

SampleID : CAL @ 0.5 PPB Operator : SG Qt Meth : 8M_A0228.M
Data File: 8M12772.D Sam Mult : 1 Vial# : 23 Qt On : 02/28/18 18:27
Acq On : 02/28/18 16:15 Misc : A,5ML Qt Upd On: 02/28/18 18:12

Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	0.000		0	N.D. d		
69)	Chlorobenzene	0.000		0	N.D. d		
71)	n-Butyl acrylate	0.000		0	N.D. d		
72)	n-Amyl acetate	0.000		0	N.D. d		
73)	Bromoform	0.000		0	N.D. d		
74)	Ethylbenzene	0.000		0	N.D. d		
75)	1,1,2,2-Tetrachloroethane	0.000		0	N.D. d		
77)	Styrene	0.000		0	N.D. d		
78)	m&p-Xylenes	6.897	106	4385	1.0015	ug/l	77
79)	o-Xylene	0.000		0	N.D. d		
80)	trans-1,4-Dichloro-2-b...	0.000		0	N.D. d		
81)	1,3-Dichlorobenzene	0.000		0	N.D. d		
82)	1,4-Dichlorobenzene	0.000		0	N.D. d		
83)	1,2-Dichlorobenzene	0.000		0	N.D. d		
84)	Isopropylbenzene	0.000		0	N.D. d		
85)	Cyclohexanone	7.373	55	611m	2.7673	ug/l	
86)	Camphene	0.000		0	N.D. d		
87)	1,2,3-Trichloropropane	0.000		0	N.D. d		
88)	2-Chlorotoluene	0.000		0	N.D. d		
89)	p-Ethyltoluene	0.000		0	N.D. d		
90)	4-Chlorotoluene	0.000		0	N.D. d		
91)	n-Propylbenzene	0.000		0	N.D. d		
92)	Bromobenzene	0.000		0	N.D. d		
93)	1,3,5-Trimethylbenzene	0.000		0	N.D. d		
94)	Butyl methacrylate	0.000		0	N.D. d		
95)	t-Butylbenzene	0.000		0	N.D. d		
96)	1,2,4-Trimethylbenzene	0.000		0	N.D. d		
97)	sec-Butylbenzene	0.000		0	N.D. d		
98)	4-Isopropyltoluene	0.000		0	N.D. d		
99)	n-Butylbenzene	0.000		0	N.D. d		
100)	p-Diethylbenzene	0.000		0	N.D. d		
101)	1,2,4,5-Tetramethylben...	0.000		0	N.D. d		
102)	1,2-Dibromo-3-Chloropr...	0.000		0	N.D. d		
103)	Camphor	9.119	95	931	2.1712	ug/l	94
104)	Hexachlorobutadiene	0.000		0	N.D. d		
105)	1,2,4-Trichlorobenzene	0.000		0	N.D. d		
106)	1,2,3-Trichlorobenzene	0.000		0	N.D. d		
107)	Naphthalene	0.000		0	N.D. d		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

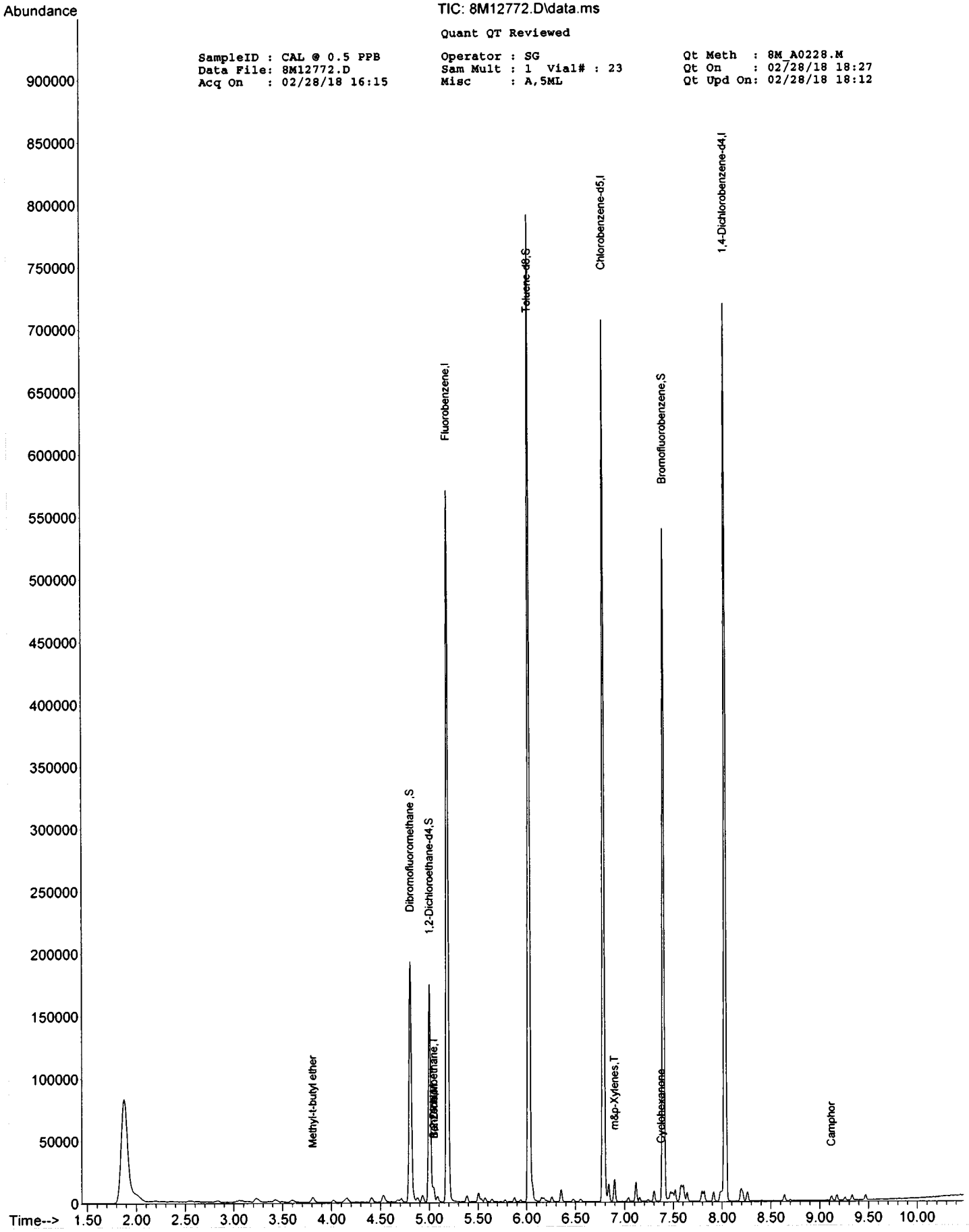
TIC: 8M12772.D\data.ms

Quant QT Reviewed

SampleID : CAL @ 0.5 PPB
Data File: 8M12772.D
Acq On : 02/28/18 16:15

Operator : SG
Sam Mult : 1 Vial# : 23
Misc : A,5ML

Qt Meth : 8M_A0228.M
Qt On : 02/28/18 18:27
Qt Upd On: 02/28/18 18:12



TxtDfile: 3M125287.D ICV FORM Date/Time: 02/21/18 13:32

8022222 0159

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
Chlorodifluoromethane	1	0		18.7818	20	94		70	130
Dichlorodifluoromethane	1	0		20.3715	20	102		50	150
Chloromethane	1	0		19.7322	20	99		70	130
Bromomethane	1	0		16.6585	20	83		70	130
Vinyl Chloride	1	0		18.8367	20	94		70	130
Chloroethane	1	0		21.3067	20	107		70	130
Trichlorofluoromethane	1	0		20.2229	20	101		70	130
Ethyl ether	1	0		19.93	20	100		70	130
Furan	1	0		18.4322	20	92		70	130
1.1.2-Trichloro-1.2.2-trifluoroethane	1	0		19.2145	20	96		70	130
Methylene Chloride	1	0		17.3273	20	87		70	130
Acrolein	1	0		101.9203	100	102		50	150
Acrylonitrile	1	0		18.9654	20	95		50	150
Iodomethane	1	0		20.0637	20	100		70	130
Acetone	1	0		95.4396	100	95		50	150
Carbon Disulfide	1	0		19.1008	20	96		70	130
t-Butyl Alcohol	1	0		94.474	100	94		50	150
n-Hexane	1	0		16.4271	20	82		70	130
Di-isopropyl-ether	1	0		18.2427	20	91		70	130
1.1-Dichloroethene	1	0		19.0545	20	95		70	130
Methyl Acetate	1	0		17.9654	20	90		70	130
Methyl-t-butyl ether	1	0		18.8015	20	94		70	130
1.1-Dichloroethane	1	0		18.2065	20	91		70	130
trans-1.2-Dichloroethene	1	0		19.2966	20	96		70	130
Ethyl-t-butyl ether	1	0		19.3944	20	97		70	130
cis-1.2-Dichloroethene	1	0		19.8813	20	99		70	130
Bromochloromethane	1	0		16.5101	20	83		70	130
2.2-Dichloropropane	1	0		18.6932	20	93		70	130
Ethyl acetate	1	0		19.8225	20	99		70	130
1.4-Dioxane	1	0		857.8303	1000	86		70	130
1.1-Dichloropropene	1	0		19.2887	20	96		70	130
Chloroform	1	0		19.5529	20	98		70	130
Cyclohexane	1	0		19.4991	20	97		70	130
1.2-Dichloroethane	1	0		20.5252	20	103		70	130
2-Butanone	1	0		16.1811	20	81		70	130
1.1.1-Trichloroethane	1	0		18.7918	20	94		70	130
Carbon Tetrachloride	1	0		20.3829	20	102		70	130
Vinyl Acetate	1	0		19.7281	20	99		70	130
Bromodichloromethane	1	0		19.6449	20	98		70	130
Methylcyclohexane	1	0		18.1017	20	91		70	130
Dibromomethane	1	0		18.4698	20	92		70	130
1.2-Dichloropropane	1	0		18.931	20	95		70	130
Trichloroethene	1	0		19.4607	20	97		70	130
Benzene	1	0		19.1636	20	96		70	130
Iso-propylacetate	1	0		19.1403	20	96		70	130
Methyl methacrylate	1	0		18.0926	20	90		70	130
Dibromochloromethane	1	0		20.5777	20	103		70	130
2-Chloroethylvinylether	1	0		19.0681	20	95		70	130
cis-1.3-Dichloropropene	1	0		21.2857	20	106		70	130
trans-1.3-Dichloropropene	1	0		20.9368	20	105		70	130
Ethyl methacrylate	1	0		19.5488	20	98		70	130
1.1.2-Trichloroethane	1	0		18.6707	20	93		70	130
1.2-Dibromoethane	1	0		18.9116	20	95		70	130
1.3-Dichloropropane	1	0		19.6716	20	98		70	130
4-Methyl-2-Pentanone	1	0		17.7073	20	89		70	130
2-Hexanone	1	0		18.7155	20	94		70	130
Tetrachloroethene	1	0		21.4225	20	107		70	130
Toluene	1	0		18.6304	20	93		70	130
1.1.1.2-Tetrachloroethane	1	0		21.5821	20	108		70	130
Chlorobenzene	1	0		19.2385	20	96		70	130
n-Butyl acrylate	1	0		18.8559	20	94		70	130
n-Amyl acetate	1	0		17.7098	20	89		70	130
Bromoform	1	0		19.789	20	99		70	130
Ethylbenzene	1	0		18.7701	20	94		70	130
1.1.2.2-Tetrachloroethane	1	0		17.2103	20	86		70	130
Styrene	1	0		20.1312	20	101		70	130
m&p-Xylenes	1	0		37.8414	40	95		70	130
o-Xylene	1	0		19.1134	20	96		70	130
trans-1.4-Dichloro-2-butene	1	0		21.2284	20	106		70	130
1.3-Dichlorobenzene	1	0		20.4867	20	102		70	130
1.4-Dichlorobenzene	1	0		19.8895	20	99		70	130
1.2-Dichlorobenzene	1	0		19.2622	20	96		70	130
Isopropylbenzene	1	0		19.012	20	95		70	130
1.2.3-Trichloropropane	1	0		19.2065	20	96		70	130
2-Chlorotoluene	1	0		19.138	20	96		70	130
4-Chlorotoluene	1	0		18.781	20	94		70	130
n-Propylbenzene	1	0		19.4915	20	97		70	130
Bromobenzene	1	0		17.6529	20	88		70	130
1.3.5-Trimethylbenzene	1	0		21.2682	20	106		70	130
Butyl methacrylate	1	0		19.6094	20	98		70	130
t-Butylbenzene	1	0		19.7334	20	99		70	130
1.2.4-Trimethylbenzene	1	0		19.3883	20	97		70	130
sec-Butylbenzene	1	0		19.4945	20	97		70	130
4-Isopropyltoluene	1	0		18.7985	20	94		70	130
n-Butylbenzene	1	0		19.4069	20	97		70	130
1.2-Dibromo-3-Chloropropane	1	0		15.3878	20	77		70	130
Hexachlorobutadiene	1	0		16.2468	20	81		70	130
1.2.4-Trichlorobenzene	1	0		19.2857	20	96		70	130
1.2.3-Trichlorobenzene	1	0		19.6162	20	98		70	130
Naphthalene	1	0		19.7785	20	99		70	130

TxtDfile: 8M12787.D ICV FORM Date/Time: 02/28/18 20:36

8022222 0160

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
Chlorodifluoromethane	1	0		14.8901	20	74		70	130
Dichlorodifluoromethane	1	0		15.9036	20	80		50	150
Chloromethane	1	0		17.411	20	87		70	130
Bromomethane	1	0		17.8618	20	89		70	130
Vinyl Chloride	1	0		16.2612	20	81		70	130
Chloroethane	1	0		17.857	20	89		70	130
Trichlorofluoromethane	1	0		15.9996	20	80		70	130
Ethyl ether	1	0		20.1818	20	101		70	130
Furan	1	0		17.2326	20	86		70	130
1.1.2-Trichloro-1.2.2-trifluoroethane	1	0		16.4452	20	82		70	130
Methylene Chloride	1	0		19.6704	20	98		70	130
Acrolein	1	0		100.386	100	100		50	150
Acrylonitrile	1	0		19.6987	20	98		50	150
Iodomethane	1	0		15.5438	20	78		70	130
Acetone	1	0		91.1894	100	91		50	150
Carbon Disulfide	1	0		16.64	20	83		70	130
t-Butyl Alcohol	1	0		102.8097	100	103		50	150
n-Hexane	1	0		15.0206	20	75		70	130
Di-isopropyl-ether	1	0		17.9022	20	90		70	130
1.1-Dichloroethene	1	0		16.3078	20	82		70	130
Methyl Acetate	1	0		20.4456	20	102		70	130
Methyl-t-butyl ether	1	0		19.5208	20	98		70	130
1.1-Dichloroethane	1	0		16.8483	20	84		70	130
trans-1.2-Dichloroethene	1	0		16.3975	20	82		70	130
Ethyl-t-butyl ether	1	0		18.8825	20	94		70	130
cis-1.2-Dichloroethene	1	0		17.2692	20	86		70	130
Bromochloromethane	1	0		18.7269	20	94		70	130
2.2-Dichloropropane	1	0		14.0942	20	70		70	130
Ethyl acetate	1	0		21.0751	20	105		70	130
1.4-Dioxane	1	0		580.4893	1000	58	*	70	130
1.1-Dichloropropene	1	0		15.8495	20	79		70	130
Chloroform	1	0		17.9303	20	90		70	130
Cyclohexane	1	0		15.5949	20	78		70	130
1.2-Dichloroethane	1	0		18.1977	20	91		70	130
2-Butanone	1	0		9.3446	20	47	*	70	130
1.1.1-Trichloroethane	1	0		15.6265	20	78		70	130
Carbon Tetrachloride	1	0		15.1296	20	76		70	130
Vinyl Acetate	1	0		14.5394	20	73		70	130
Bromodichloromethane	1	0		17.8669	20	89		70	130
Methylcyclohexane	1	0		16.0637	20	80		70	130
Dibromomethane	1	0		20.7873	20	104		70	130
1.2-Dichloropropane	1	0		19.5857	20	98		70	130
Trichloroethene	1	0		16.3986	20	82		70	130
Benzene	1	0		17.5316	20	88		70	130
Iso-propylacetate	1	0		18.687	20	93		70	130
Methyl methacrylate	1	0		21.1334	20	106		70	130
Dibromochloromethane	1	0		18.2927	20	91		70	130
2-Chloroethylvinylether	1	0		18.4667	20	92		70	130
cis-1.3-Dichloropropene	1	0		17.3501	20	87		70	130
trans-1.3-Dichloropropene	1	0		17.3268	20	87		70	130
Ethyl methacrylate	1	0		18.3897	20	92		70	130
1.1.2-Trichloroethane	1	0		18.8492	20	94		70	130
1.2-Dibromoethane	1	0		18.7039	20	94		70	130
1.3-Dichloropropane	1	0		20.4073	20	102		70	130
4-Methyl-2-Pentanone	1	0		20.7802	20	104		70	130
2-Hexanone	1	0		20.4357	20	102		70	130
Tetrachloroethene	1	0		17.1735	20	86		70	130
Toluene	1	0		16.8304	20	84		70	130
1.1.1.2-Tetrachloroethane	1	0		17.5005	20	88		70	130
Chlorobenzene	1	0		16.8136	20	84		70	130
n-Butyl acrylate	1	0		19.994	20	100		70	130
n-Amyl acetate	1	0		18.8028	20	94		70	130
Bromoform	1	0		17.7369	20	89		70	130
Ethylbenzene	1	0		17.0142	20	85		70	130
1.1.2.2-Tetrachloroethane	1	0		19.9303	20	100		70	130
Styrene	1	0		17.7239	20	89		70	130
m&p-Xylenes	1	0		38.3656	40	96		70	130
o-Xylene	1	0		17.486	20	87		70	130
trans-1.4-Dichloro-2-butene	1	0		16.1451	20	81		70	130
1.3-Dichlorobenzene	1	0		16.5409	20	83		70	130
1.4-Dichlorobenzene	1	0		16.3864	20	82		70	130
1.2-Dichlorobenzene	1	0		17.2505	20	86		70	130
Isopropylbenzene	1	0		15.7801	20	79		70	130
1.2.3-Trichloropropane	1	0		18.3453	20	92		70	130
2-Chlorotoluene	1	0		15.6622	20	78		70	130
4-Chlorotoluene	1	0		18.0493	20	90		70	130
n-Propylbenzene	1	0		16.2603	20	81		70	130
Bromobenzene	1	0		17.5219	20	88		70	130
1.3.5-Trimethylbenzene	1	0		16.001	20	80		70	130
Butyl methacrylate	1	0		16.1407	20	81		70	130
t-Butylbenzene	1	0		16.1858	20	81		70	130
1.2.4-Trimethylbenzene	1	0		17.0382	20	85		70	130
sec-Butylbenzene	1	0		15.7883	20	79		70	130
4-Isopropyltoluene	1	0		16.7785	20	84		70	130
n-Butylbenzene	1	0		17.7579	20	89		70	130
1.2-Dibromo-3-Chloropropane	1	0		18.2886	20	91		70	130
Hexachlorobutadiene	1	0		15.184	20	76		70	130
1.2.4-Trichlorobenzene	1	0		16.6231	20	83		70	130
1.2.3-Trichlorobenzene	1	0		19.1385	20	96		70	130
Naphthalene	1	0		18.5606	20	93		70	130

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 3M125776.D **Instrument:** GCMS 3

Cont Calibration Date/Time 3/1/2018 6:38:00 PM Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	4.96	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.61	15.31	20	20	0.1	0.427	0.327	23.45	C1
Dichlorodifluoromethane	1	0		1.60	61.07	20	20	0.1	0.063	0.194	205.36	C1
Chloromethane	1	0		1.76	30.02	20	20	0.1	0.142	0.213	50.10	C1
Bromomethane	1	0		2.13	16.90	20	20	0.1	0.110	0.099	15.49	
Vinyl Chloride	1	0		1.85	19.74	20	20	0.1	0.154	0.152	1.29	
Chloroethane	1	0		2.21	22.39	20	20	0.1	0.114	0.127	11.95	
Trichlorofluoromethane	1	0		2.42	19.91	20	20	0.1	0.309	0.308	0.45	
Ethyl ether	1	0		2.65	16.90	20	20	0.5	0.213	0.180	15.49	
Furan	1	0		2.69	17.06	20	20	0.5	0.515	0.439	14.70	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.84	19.21	20	20	0.1	0.121	0.116	3.94	
Methylene Chloride	1	0		3.25	15.94	20	20	0.1	0.253	0.202	20.29	
Acrolein	1	0		2.77	97.58	100	20		0.039	0.038	2.42	
Acrylonitrile	1	0		3.46	16.01	20	20		0.087	0.070	19.97	
Iodomethane	1	0		2.99	20.66	20	20		0.259	0.268	3.29	
Acetone	1	0		2.89	82.09	100	20	0.1	0.090	0.074	17.91	
Carbon Disulfide	1	0		3.05	16.94	20	20	0.1	0.513	0.435	15.29	
t-Butyl Alcohol	1	0		3.31	75.23	100	20		0.028	0.021	24.77	C1
n-Hexane	1	0		3.68	18.13	20	20		0.101	0.092	9.36	
Di-isopropyl-ether	1	0		3.84	17.15	20	20		0.808	0.693	14.24	
1,1-Dichloroethene	1	0		2.85	16.63	20	20	0.1	0.344	0.286	16.87	
Methyl Acetate	1	0		3.15	14.81	20	20	0.1	0.348	0.258	25.95	C1
Methyl-t-butyl ether	1	0		3.46	16.07	20	20	0.1	0.734	0.590	19.63	
1,1-Dichloroethane	1	0		3.82	16.76	20	20	0.2	0.422	0.353	16.20	
trans-1,2-Dichloroethene	1	0		3.47	18.63	20	20	0.1	0.217	0.202	6.84	
Ethyl-t-butyl ether	1	0		4.10	17.46	20	20	0.5	0.864	0.754	12.70	
cis-1,2-Dichloroethene	1	0		4.24	17.78	20	20	0.1	0.440	0.391	11.09	
Bromochloromethane	1	0		4.40	18.18	20	20		0.242	0.220	9.09	
2,2-Dichloropropane	1	0		4.24	20.06	20	20		0.317	0.318	0.32	
Ethyl acetate	1	0		4.25	16.10	20	20		0.314	0.253	19.48	
1,4-Dioxane	1	0		5.40	849.41	1000	20		0.003	0.002	15.06	
1,1-Dichloropropene	1	0		4.66	17.42	20	20		0.313	0.273	12.90	
Chloroform	1	0		4.43	17.56	20	20	0.2	0.473	0.415	12.22	
Dibromofluoromethane	1	0	S	4.54	29.82	30	**		0.293	0.291	0.60	
Cyclohexane	1	0		4.60	19.80	20	20	0.1	0.173	0.171	1.01	
1,2-Dichloroethane-d4	1	0	S	4.76	29.49	30	**		0.205	0.202	1.71	
1,2-Dichloroethane	1	0		4.81	17.67	20	20	0.1	0.465	0.411	11.66	
2-Butanone	1	0		4.24	16.97	20	20	0.1	0.121	0.103	15.15	
1,1,1-Trichloroethane	1	0		4.57	18.11	20	20	0.1	0.397	0.359	9.43	
Carbon Tetrachloride	1	0		4.67	19.05	20	20	0.1	0.283	0.270	4.76	
Vinyl Acetate	1	0		3.84	18.28	20	20		0.545	0.498	8.60	
Bromodichloromethane	1	0		5.49	18.06	20	20	0.2	0.346	0.312	9.72	
Methylcyclohexane	1	0		5.31	21.66	20	20	0.1	0.136	0.147	8.32	
Dibromomethane	1	0		5.41	17.48	20	20		0.209	0.182	12.59	
1,2-Dichloropropane	1	0		5.33	16.38	20	20	0.1	0.224	0.184	18.11	
Trichloroethene	1	0		5.19	18.84	20	20	0.2	0.251	0.237	5.79	
Benzene	1	0		4.80	17.61	20	20	0.5	0.854	0.752	11.96	
tert-Amyl methyl ether	1	0		4.84	16.86	20	20		0.768	0.648	15.71	
Chlorobenzene-d5	1	0	I	6.79	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.79	15.26	20	20	0.5	0.818	0.624	23.69	C1
Methyl methacrylate	1	0		5.35	16.18	20	20	0.5	0.456	0.369	19.12	
Dibromochloromethane	1	0		6.44	17.38	20	20	0.1	0.339	0.295	13.12	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 3M125776.D **Instrument:** GCMS 3

Cont Calibration Date/Time 3/1/2018 6:38:00 PM Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.64	14.42	20	20		0.219	0.158	27.91	C1
cis-1,3-Dichloropropene	1	0		5.75	16.85	20	20	0.2	0.490	0.413	15.77	
trans-1,3-Dichloropropene	1	0		6.07	16.36	20	20	0.1	0.492	0.402	18.20	
Ethyl methacrylate	1	0		6.09	16.60	20	20	0.5	0.451	0.374	17.01	
1,1,2-Trichloroethane	1	0		6.19	16.76	20	20	0.1	0.296	0.248	16.20	
1,2-Dibromoethane	1	0		6.53	16.56	20	20	0.1	0.321	0.266	17.21	
1,3-Dichloropropane	1	0		6.30	17.00	20	20		0.518	0.440	14.98	
4-Methyl-2-Pentanone	1	0		5.82	15.31	20	20	0.1	0.399	0.305	23.46	C1
2-Hexanone	1	0		6.31	16.03	20	20	0.1	0.270	0.217	19.86	
Tetrachloroethene	1	0		6.28	19.42	20	20	0.2	0.198	0.192	2.88	
Toluene-d8	1	0	S	5.92	28.48	30	**		1.283	1.218	5.07	
Toluene	1	0		5.95	16.40	20	20	0.4	0.689	0.565	18.00	
1,1,1,2-Tetrachloroethane	1	0		6.85	19.00	20	20		0.284	0.270	5.02	
Chlorobenzene	1	0		6.81	17.29	20	20	0.5	0.743	0.642	13.54	
1,4-Dichlorobenzene-d4	1	0	I	8.24	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.07	18.65	20	20	0.5	1.661	1.549	6.75	
n-Amyl acetate	1	0		7.20	15.91	20	20	0.5	1.447	1.151	20.45	
Bromoform	1	0		7.32	14.89	20	20	0.1	0.570	0.425	25.56	C1
Ethylbenzene	1	0		6.86	17.06	20	20	0.1	0.522	0.445	14.71	
1,1,2,2-Tetrachloroethane	1	0		7.56	16.09	20	20	0.1	0.849	0.683	19.54	
Bromofluorobenzene	1	0	S	7.50	29.63	30	**		1.103	1.089	1.23	
Styrene	1	0		7.17	18.07	20	20	0.3	1.703	1.538	9.67	
m&p-Xylenes	1	0		6.92	35.62	40	20	0.1	0.876	0.780	10.96	
o-Xylene	1	0		7.17	18.89	20	20	0.3	0.885	0.836	5.55	
trans-1,4-Dichloro-2-butene	1	0		7.59	16.98	20	20		0.358	0.304	15.09	
1,3-Dichlorobenzene	1	0		8.20	18.53	20	20	0.6	0.995	0.922	7.33	
1,4-Dichlorobenzene	1	0		8.25	19.42	20	20	0.5	1.036	1.006	2.88	
1,2-Dichlorobenzene	1	0		8.51	17.92	20	20	0.4	1.043	0.935	10.41	
Isopropylbenzene	1	0		7.38	18.82	20	20	0.1	1.777	1.673	5.89	
Cyclohexanone	1	0		7.49	98.98	100	20		0.034	0.033	1.02	
Camphene	1	0		7.57	20.46	20	20		0.553	0.566	2.29	
1,2,3-Trichloropropane	1	0		7.61	16.33	20	20		1.094	0.893	18.37	
2-Chlorotoluene	1	0		7.72	18.06	20	20		1.074	0.970	9.71	
p-Ethyltoluene	1	0		7.70	18.36	20	20		1.813	1.664	8.21	
4-Chlorotoluene	1	0		7.78	18.04	20	20		1.135	1.024	9.79	
n-Propylbenzene	1	0		7.64	18.63	20	20		1.773	1.652	6.83	
Bromobenzene	1	0		7.61	15.25	20	20		1.752	1.336	23.73	C1
1,3,5-Trimethylbenzene	1	0		7.73	22.58	20	20		1.146	1.293	12.88	
Butyl methacrylate	1	0		7.73	16.32	20	20	0.5	1.220	0.996	18.41	
t-Butylbenzene	1	0		7.95	19.86	20	20		1.234	1.225	0.70	
1,2,4-Trimethylbenzene	1	0		7.98	18.77	20	20		1.547	1.452	6.15	
sec-Butylbenzene	1	0		8.09	19.59	20	20		1.368	1.340	2.04	
4-Isopropyltoluene	1	0		8.16	20.47	20	20		1.218	1.246	2.33	
n-Butylbenzene	1	0		8.43	19.37	20	20		1.325	1.283	3.15	
p-Diethylbenzene	1	0		8.41	19.14	20	20		0.814	0.779	4.29	
1,2,4,5-Tetramethylbenzene	1	0		8.93	19.56	20	20		1.222	1.195	2.21	
1,2-Dibromo-3-Chloropropane	1	0		9.01	13.42	20	20	0.05	0.168	0.141	32.89	C1
Camphor	1	0		9.50	158.24	200	20		0.078	0.074	20.88	C1
Hexachlorobutadiene	1	0		9.64	17.71	20	20		0.473	0.419	11.43	
1,2,4-Trichlorobenzene	1	0		9.56	19.39	20	20	0.2	0.555	0.552	3.05	
1,2,3-Trichlorobenzene	1	0		9.90	21.09	20	20		0.494	0.521	5.43	
Naphthalene	1	0		9.74	18.62	20	20		1.374	1.280	6.88	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

3022222 0163

Sample ID : CAL @ 20 PPB
Data File: 3M125776.D
Acq On : 03/ 1/18 18:38
Operator : WP
Sam Mult : 1 Vial# : 3
Misc : A,5ML
Qt Meth : 3M_A00221M
Qt On : 03/01/18 18:52
Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-0118\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.963	96	470541	30.00	ug/l	0.02
52) Chlorobenzene-d5	6.789	117	389693	30.00	ug/l	0.02
70) 1,4-Dichlorobenzene-d4	8.237	152	166353	30.00	ug/l	0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.543	111	136880	29.82	ug/l	0.02
Spiked Amount 30.000			Recovery = 99.40%			
39) 1,2-Dichloroethane-d4	4.759	67	94840	29.49	ug/l	0.02
Spiked Amount 30.000			Recovery = 98.30%			
66) Toluene-d8	5.918	98	474546	28.48	ug/l	0.02
Spiked Amount 30.000			Recovery = 94.93%			
76) Bromofluorobenzene	7.498	174	181227	29.63	ug/l	0.02
Spiked Amount 30.000			Recovery = 98.77%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.615	51	102517m	15.3103	ug/l	
6) Dichlorodifluoromethane	1.598	85	60805	61.0728	ug/l	87
7) Chloromethane	1.765	50	66742m	30.0207	ug/l	
8) Bromomethane	2.134	94	30945m	16.9022	ug/l	
9) Vinyl Chloride	1.848	62	47670	19.7426	ug/l	91
10) Chloroethane	2.212	64	39875	22.3896	ug/l	97
11) Trichlorofluoromethane	2.422	101	96465m	19.9100	ug/l	
12) Ethyl ether	2.650	59	56451	16.9028	ug/l	88
13) Furan	2.692	39	137854m	17.0604	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.843	101	36543m	19.2129	ug/l	
15) Methylene Chloride	3.245	84	63240	15.9418	ug/l	97
16) Acrolein	2.771	56	60347	97.5830	ug/l	98
17) Acrylonitrile	3.455	53	21873	16.0057	ug/l	91
18) Iodomethane	2.993	142	84063	20.6584	ug/l	98
19) Acetone	2.891	43	115676m	82.0912	ug/l	
20) Carbon Disulfide	3.047	76	136449	16.9428	ug/l	100
21) t-Butyl Alcohol	3.305	59	33068m	75.2254	ug/l	
22) n-Hexane	3.678	57	28716	18.1281	ug/l	81
23) Di-isopropyl-ether	3.840	45	217353	17.1514	ug/l	100
24) 1,1-Dichloroethene	2.849	61	89641	16.6254	ug/l	94
25) Methyl Acetate	3.149	43	80926m	14.8108	ug/l	
26) Methyl-t-butyl ether	3.455	73	184951	16.0745	ug/l	65
27) 1,1-Dichloroethane	3.822	63	110828m	16.7606	ug/l	
28) trans-1,2-Dichloroethene	3.473	96	63373	18.6312	ug/l	91
29) Ethyl-t-butyl ether	4.104	59	236580	17.4591	ug/l	96
30) cis-1,2-Dichloroethene	4.236	61	122634	17.7819	ug/l	90
31) Bromochloromethane	4.398	49	69056	18.1822	ug/l	89
32) 2,2-Dichloropropane	4.242	77	99816	20.0634	ug/l	91
33) Ethyl acetate	4.254	43	79311m	16.1039	ug/l	
34) 1,4-Dioxane	5.402	88	38942	849.4067	ug/l	96
35) 1,1-Dichloropropene	4.663	75	85537	17.4209	ug/l	92
36) Chloroform	4.435	83	130224	17.5570	ug/l	78
38) Cyclohexane	4.597	56	53605	19.7985	ug/l	93
40) 1,2-Dichloroethane	4.807	62	128867	17.6675	ug/l	90
41) 2-Butanone	4.242	43	32332m	16.9704	ug/l	
42) 1,1,1-Trichloroethane	4.567	97	112733	18.1149	ug/l	98
43) Carbon Tetrachloride	4.669	117	84646	19.0476	ug/l	88
44) Vinyl Acetate	3.840	43	156321	18.2795	ug/l	100
45) Bromodichloromethane	5.486	83	97978	18.0565	ug/l	88
46) Methylcyclohexane	5.306	83	46075	21.6645	ug/l	87
47) Dibromomethane	5.414	174	57215	17.4823	ug/l	89
48) 1,2-Dichloropropane	5.330	63	57593	16.3777	ug/l	87
49) Trichloroethene	5.185	130	74319	18.8425	ug/l	86
50) Benzene	4.801	78	235831	17.6082	ug/l	100
51) tert-Amyl methyl ether	4.837	73	203135	16.8586	ug/l	74
53) Iso-propylacetate	4.795	43	162193m	15.2628	ug/l	
54) Methyl methacrylate	5.354	41	95830m	16.1767	ug/l	
55) Dibromochloromethane	6.441	129	76608	17.3760	ug/l	98
56) 2-Chloroethylvinylether	5.642	63	41104	14.4183	ug/l	93
57) cis-1,3-Dichloropropene	5.750	75	107258	16.8458	ug/l	96
58) trans-1,3-Dichloropropene	6.074	75	104460	16.3603	ug/l	98
59) Ethyl methacrylate	6.086	41	97142m	16.5972	ug/l	
60) 1,1,2-Trichloroethane	6.189	97	64334	16.7604	ug/l	89
61) 1,2-Dibromoethane	6.531	107	69087	16.5579	ug/l	92
62) 1,3-Dichloropropane	6.297	76	114342	17.0039	ug/l	94
63) 4-Methyl-2-Pentanone	5.822	43	79360m	15.3076	ug/l	
64) 2-Hexanone	6.309	43	56317m	16.0286	ug/l	
65) Tetrachloroethene	6.285	164	49996	19.4239	ug/l	84
67) Toluene	5.954	92	146802	16.3993	ug/l	98

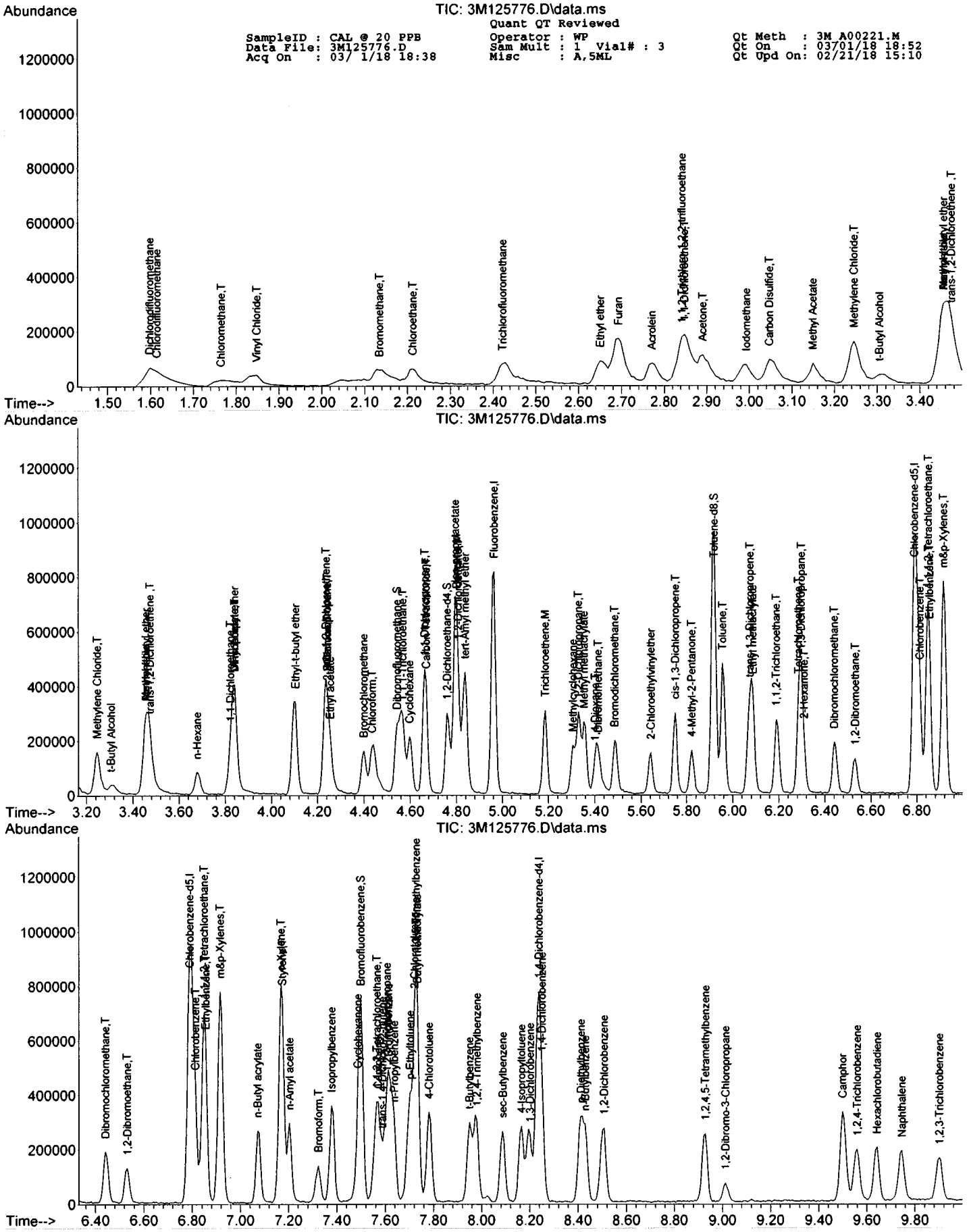
Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB Operator : WP Qt Meth : 3M_A00221.M
Data File: 3M125776.D Sam Mult : 1 Vial# : 3 Qt On : 03/01/18 18:52
Acq On : 03/ 1/18 18:38 Misc : A,5ML Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-0118\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.849	133	70052	18.9968	ug/l	80
69)	Chlorobenzene	6.813	112	166841	17.2915	ug/l	91
71)	n-Butyl acrylate	7.072	55	171804m	18.6492	ug/l	
72)	n-Amyl acetate	7.204	43	127692	15.9109	ug/l	87
73)	Bromoform	7.324	173	47087	14.8873	ug/l	89
74)	Ethylbenzene	6.855	106	49368	17.0590	ug/l	77
75)	1,1,2,2-Tetrachloroethane	7.564	83	75776m	16.0917	ug/l	
77)	Styrene	7.174	104	170557	18.0662	ug/l	94
78)	m&p-Xylenes	6.915	106	173010	35.6165	ug/l	79
79)	o-Xylene	7.168	106	92741	18.8907	ug/l	66
80)	trans-1,4-Dichloro-2-b...	7.588	53	33753m	16.9813	ug/l	
81)	1,3-Dichlorobenzene	8.201	146	102270	18.5345	ug/l	91
82)	1,4-Dichlorobenzene	8.249	146	111552	19.4238	ug/l	94
83)	1,2-Dichlorobenzene	8.507	146	103673	17.9171	ug/l	90
84)	Isopropylbenzene	7.378	105	185496	18.8223	ug/l	92
85)	Cyclohexanone	7.486	55	18515	98.9768	ug/l	87
86)	Camphene	7.570	93	62747	20.4573	ug/l	100
87)	1,2,3-Trichloropropane	7.606	75	99035	16.3270	ug/l	97
88)	2-Chlorotoluene	7.720	91	107558	18.0574	ug/l	95
89)	p-Ethyltoluene	7.702	105	184588	18.3583	ug/l	85
90)	4-Chlorotoluene	7.780	91	113600	18.0426	ug/l	94
91)	n-Propylbenzene	7.636	91	183184	18.6334	ug/l	90
92)	Bromobenzene	7.612	77	148174	15.2543	ug/l	97
93)	1,3,5-Trimethylbenzene	7.726	105	143413	22.5758	ug/l	92
94)	Butyl methacrylate	7.732	41	110421m	16.3175	ug/l	
95)	t-Butylbenzene	7.949	119	135847	19.8601	ug/l	83
96)	1,2,4-Trimethylbenzene	7.979	105	160977	18.7707	ug/l	89
97)	sec-Butylbenzene	8.087	105	148622	19.5920	ug/l	98
98)	4-Isopropyltoluene	8.165	119	138176	20.4660	ug/l	93
99)	n-Butylbenzene	8.429	91	142330	19.3707	ug/l	89
100)	p-Diethylbenzene	8.411	119	86410	19.1419	ug/l	92
101)	1,2,4,5-Tetramethylben...	8.928	119	132540	19.5580	ug/l	91
102)	1,2-Dibromo-3-Chloropr...	9.012	157	15630	13.4230	ug/l	87
103)	Camphor	9.498	95	81550	158.2409	ug/l	87
104)	Hexachlorobutadiene	9.643	225	46473	17.7135	ug/l	98
105)	1,2,4-Trichlorobenzene	9.558	180	61207	19.3906	ug/l	98
106)	1,2,3-Trichlorobenzene	9.901	180	57793	21.0869	ug/l	93
107)	Naphthalene	9.745	128	141918	18.6249	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125776.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 20 PPB
Data File: 3M125776.D
Acq On : 03/ 1/18 18:38
Operator : WP
Sam Mult : 1 Vial# : 3
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 03/01/18 18:52
Qt Upd On: 02/21/18 15:10
Time-->

GC/MS Volatile Data
Raw QC Data

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 3
Data File: 3M125263.D
Analysis Date: 02/21/18 07:06
Method: EPA 8260C

Tune Scan/Time Range: Average of 4.936 to 4.975 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	19.9	3471	PASS
75	95	30	60	51.3	8945	PASS
95	95	100	100	100.0	17446	PASS
96	95	5	9	7.7	1340	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	74.1	12923	PASS
175	174	5	9	7.0	899	PASS
176	174	95	101	98.8	12769	PASS
177	176	5	9	6.2	791	PASS

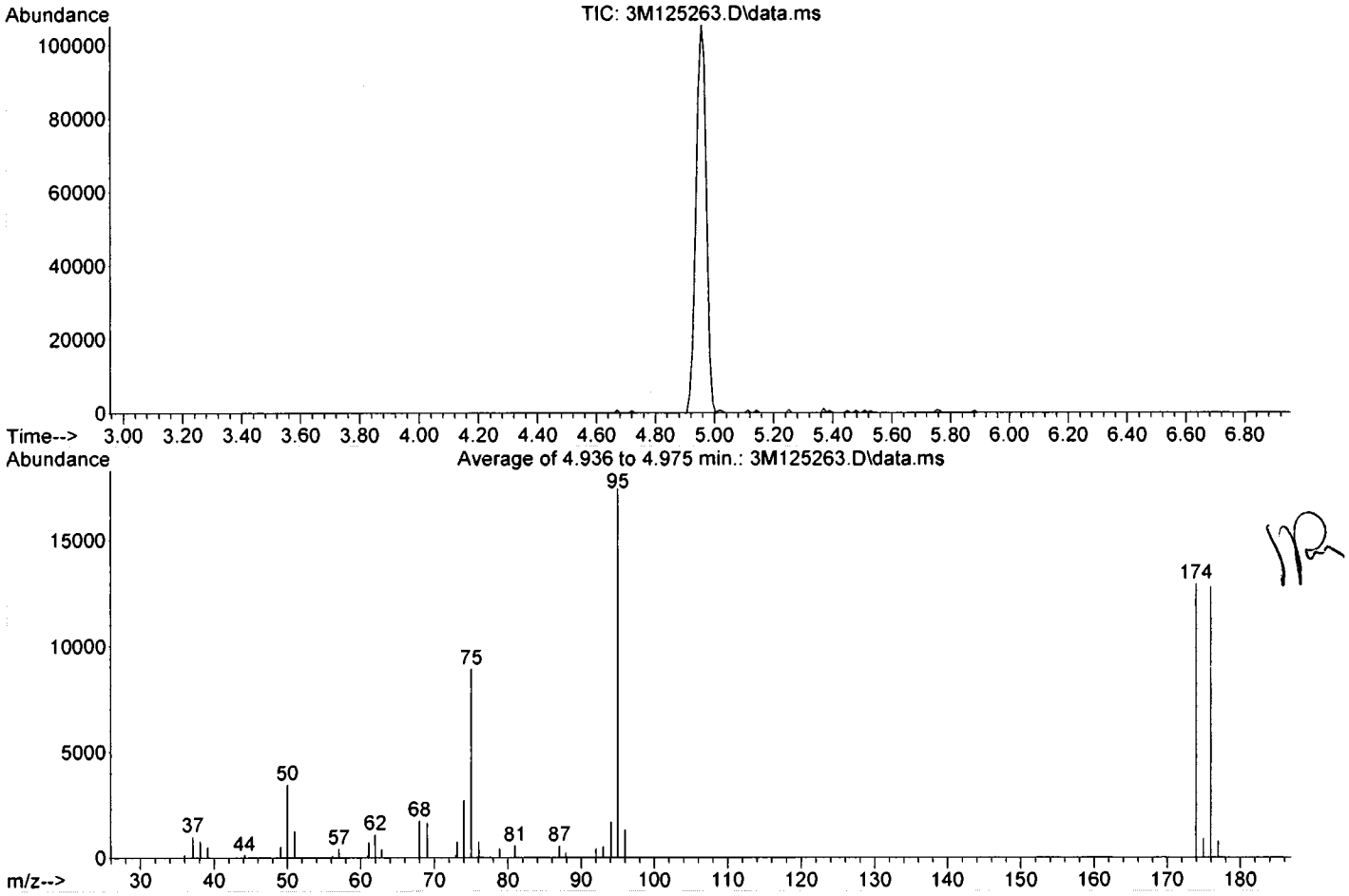
Data File	Sample Number	Analysis Date:
3M125265.D	BLK	02/21/18 07:24
3M125267.D	CAL @ 500 PPB	02/21/18 07:58
3M125269.D	CAL @ 250 PPB	02/21/18 08:31
3M125271.D	CAL @ 100 PPB	02/21/18 09:05
3M125273.D	CAL @ 50 PPB	02/21/18 09:38
3M125275.D	CAL @ 20 PPB	02/21/18 10:12
3M125281.D	CAL @ 0.5 PPB	02/21/18 11:52
3M125282.D	CAL @ 1 PPB	02/21/18 12:09
3M125283.D	CAL @ 5 PPB	02/21/18 12:25
3M125284.D	CAL @ 10 PPB	02/21/18 12:42
3M125287.D	ICV	02/21/18 13:32
3M125289.D	DAILY BLANK	02/21/18 14:06
3M125290.D	DAILY BLANK	02/21/18 14:22
3M125291.D	AD02645-002	02/21/18 14:39
3M125292.D	AD02650-001	02/21/18 14:56
3M125293.D	MBS66857	02/21/18 15:12
3M125294.D	MBS66858	02/21/18 15:29
3M125295.D	AD02672-005(MS)	02/21/18 15:46
3M125296.D	AD02672-005(MSD	02/21/18 16:02

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Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Data File : 3M125263.D
Acq On : 21 Feb 2018 7:06
Operator : SG
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2018\GCMS_3\MethodQt\3M_A0119.M
Title : @GCMS_3,ug,624,8260
Last Update : Mon Jan 22 11:39:47 2018



Spectrum Information: Average of 4.936 to 4.975 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.9	3471	PASS
75	95	30	60	51.3	8945	PASS
95	95	100	100	100.0	17446	PASS
96	95	5	9	7.7	1340	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	74.1	12923	PASS
175	174	5	9	7.0	899	PASS
176	174	95	101	98.8	12769	PASS
177	176	5	9	6.2	791	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 8
Data File: 8M12770.D
Analysis Date: 02/28/18 15:43
Method: EPA 8260C

Tune Scan/Time Range: Average of 7.385 to 7.392 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	15.1	3505	PASS
75	95	30	60	44.6	10375	PASS
95	95	100	100	100.0	23267	PASS
96	95	5	9	6.6	1528	PASS
173	174	0.00	2	0.2	50	PASS
174	95	50	100	87.5	20363	PASS
175	174	5	9	8.1	1644	PASS
176	174	95	101	95.5	19440	PASS
177	176	5	9	7.0	1360	PASS

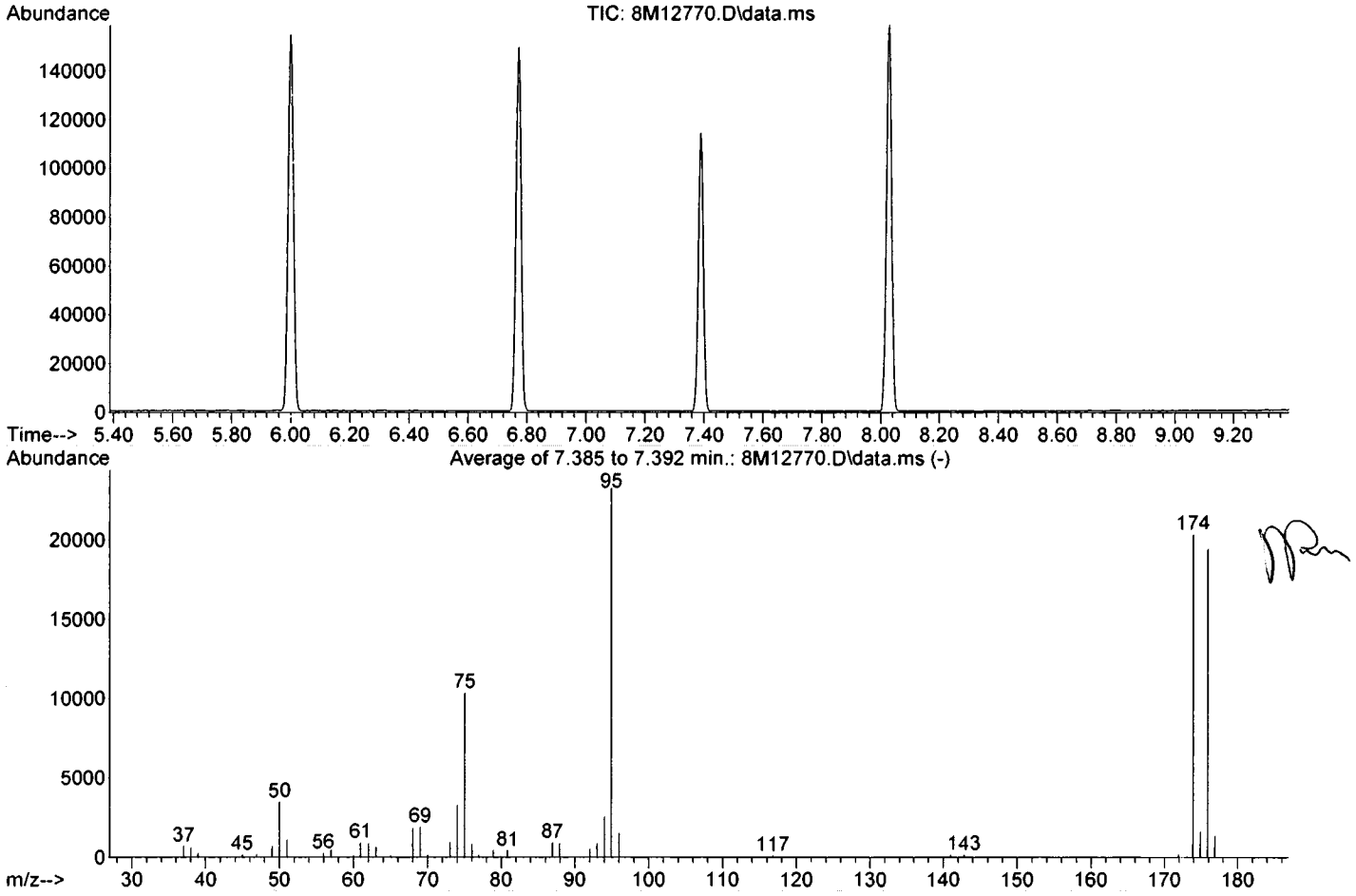
Data File	Sample Number	Analysis Date:
8M12772.D	CAL @ 0.5 PPB	02/28/18 16:15
8M12773.D	CAL @ 1 PPB	02/28/18 16:33
8M12774.D	CAL @ 5 PPB	02/28/18 16:51
8M12775.D	CAL @ 10 PPB	02/28/18 17:09
8M12776.D	CAL @ 20 PPB	02/28/18 17:26
8M12777.D	CAL @ 500 PPB	02/28/18 17:44
8M12779.D	CAL @ 250 PPB	02/28/18 18:20
8M12781.D	CAL @ 100 PPB	02/28/18 18:56
8M12783.D	CAL @ 50 PPB	02/28/18 19:31
8M12785.D	STD	02/28/18 20:07
8M12787.D	ICV	02/28/18 20:36
8M12790.D	DAILY BLANK	02/28/18 21:29
8M12791.D	MBS67240	02/28/18 21:47
8M12792.D	AD02720-009	02/28/18 22:05
8M12793.D	AD02720-010	02/28/18 22:23
8M12794.D	AD02720-011	02/28/18 22:41
8M12795.D	AD02720-012	02/28/18 22:58
8M12796.D	AD02720-011(MS)	02/28/18 23:16
8M12797.D	AD02720-011(MSD	02/28/18 23:34
8M12798.D	AD02832-001	02/28/18 23:52
8M12799.D	AD02832-002	03/01/18 00:10
8M12800.D	AD02709-002	03/01/18 00:28
8M12801.D	AD02709-003	03/01/18 00:45
8M12802.D	AD02764-007	03/01/18 01:03
8M12803.D	AD02764-008	03/01/18 01:21
8M12804.D	AD02771-001	03/01/18 01:39
8M12805.D	AD02771-002	03/01/18 01:57
8M12806.D	AD02709-001	03/01/18 02:14
8M12807.D	AD02764-001	03/01/18 02:32
8M12808.D	AD02764-002	03/01/18 02:50
8M12809.D	AD02764-006	03/01/18 03:08
8M12810.D	AD02780-001	03/01/18 03:26
8M12811.D	AD02780-002	03/01/18 03:44
8M12812.D	AD02780-004	03/01/18 04:02
8M12813.D	AD02780-005	03/01/18 04:20
8M12814.D	STD	03/01/18 04:37
8M12815.D	BLK	03/01/18 04:55

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Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Data File : 8M12770.D
Acq On : 28 Feb 2018 15:43
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 21 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2018\GCMS_8\MethodQt\8M_A0112.M
Title : @GCMS_8,ug,624,8260
Last Update : Fri Jan 12 20:20:44 2018



Spectrum Information: Average of 7.385 to 7.392 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.1	3505	PASS
75	95	30	60	44.6	10375	PASS
95	95	100	100	100.0	23267	PASS
96	95	5	9	6.6	1528	PASS
173	174	0.00	2	0.2	50	PASS
174	95	50	100	87.5	20363	PASS
175	174	5	9	8.1	1644	PASS
176	174	95	101	95.5	19440	PASS
177	176	5	9	7.0	1360	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 3
Data File: 3M125775.D
Analysis Date: 03/01/18 18:28
Method: EPA 8260C

Tune Scan/Time Range: Average of 4.946 to 5.015 min

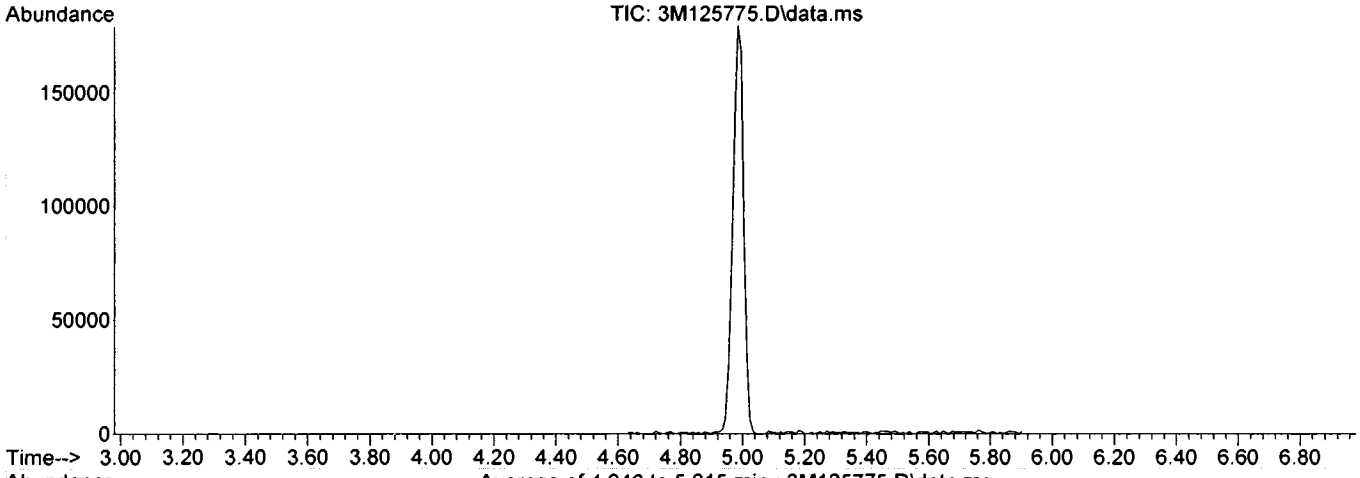
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	19.6	3917	PASS
75	95	30	60	49.7	9942	PASS
95	95	100	100	100.0	20009	PASS
96	95	5	9	7.1	1429	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	74.9	14992	PASS
175	174	5	9	7.2	1081	PASS
176	174	95	101	98.6	14788	PASS
177	176	5	9	5.8	861	PASS

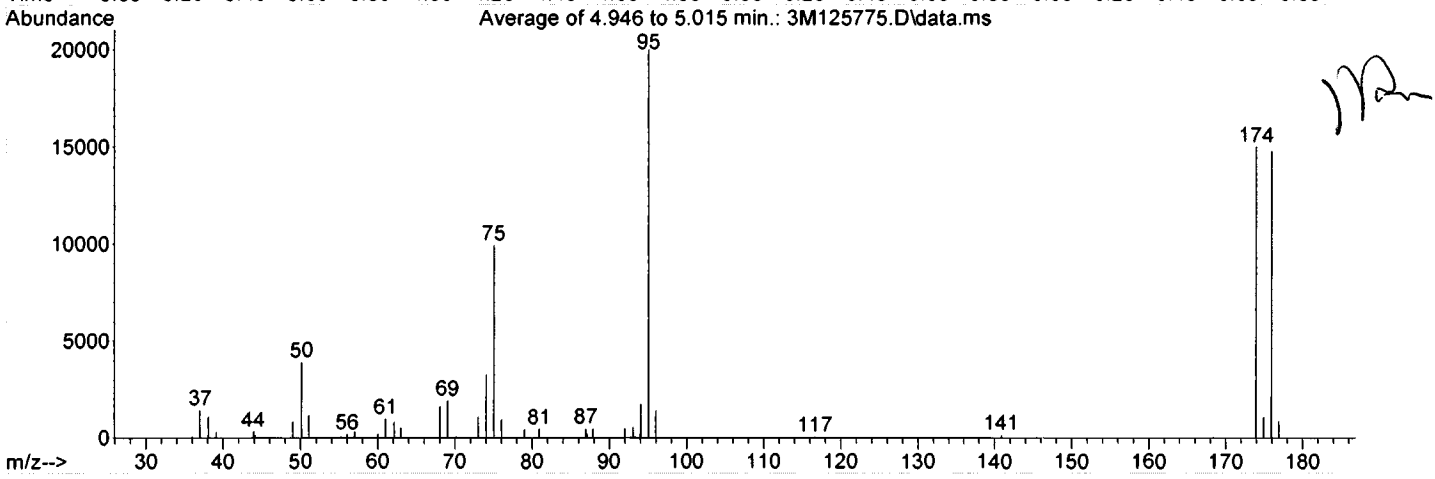
Data File	Sample Number	Analysis Date:
3M125776.D	CAL @ 20 PPB	03/01/18 18:38
3M125778.D	BLK	03/01/18 19:14
3M125779.D	DAILY BLANK	03/01/18 19:30
3M125780.D	DAILY BLANK	03/01/18 19:47
3M125781.D	AD02764-003	03/01/18 20:04
3M125782.D	MBS67258	03/01/18 20:20
3M125783.D	AD02764-004(MS:	03/01/18 20:37
3M125784.D	AD02764-005(MSD	03/01/18 20:55
3M125785.D	BLK	03/01/18 21:11
3M125786.D	AD02792-002	03/01/18 21:28
3M125787.D	AD02792-003	03/01/18 21:45
3M125788.D	AD02780-009	03/01/18 22:01
3M125789.D	AD02775-002	03/01/18 22:18
3M125790.D	AD02792-001	03/01/18 22:31
3M125791.D	AD02813-001	03/01/18 22:49
3M125792.D	AD02799-002	03/01/18 23:05
3M125793.D	AD02775-003	03/01/18 23:24
3M125794.D	AD02780-003(20X)	03/01/18 23:41
3M125795.D	AD02780-006(5X)	03/01/18 23:58
3M125796.D	AD02780-007(20X)	03/02/18 00:15
3M125797.D	AD02780-008(10X)	03/02/18 00:31
3M125798.D	AD02813-002(10X)	03/02/18 00:48
3M125799.D	AD02813-004(10X)	03/02/18 01:05
3M125800.D	AD02813-003(10X)	03/02/18 01:21
3M125801.D	MBS67259	03/02/18 01:38
3M125802.D	MBS67260	03/02/18 01:55
3M125803.D	BLK	03/02/18 02:11
3M125804.D	AD02775-001	03/02/18 02:28
3M125805.D	AD02799-001	03/02/18 02:45
3M125806.D	AD02736-001	03/02/18 03:01
3M125807.D	AD02736-005	03/02/18 03:18
3M125808.D	AD02736-008	03/02/18 03:35
3M125809.D	AD02736-010	03/02/18 03:51
3M125810.D	AD02736-004(400u	03/02/18 04:08
3M125811.D	AD02736-007(400u	03/02/18 04:24
3M125812.D	AD02736-009(80uL	03/02/18 04:41
3M125813.D	AD02736-006(400u	03/02/18 04:58
3M125814.D	AD02736-011(MS)	03/02/18 05:14
3M125815.D	AD02736-011(MSD	03/02/18 05:31
3M125816.D	MBS67261	03/02/18 05:48
3M125817.D	AD02736-011	03/02/18 06:04

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-0118\
Data File : 3M125775.D
Acq On : 1 Mar 2018 18:28
Operator : WP
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2018\GCMS_3\MethodQt\3M_A00221.M
Title : @GCMS_3,ug,624,8260
Last Update : Wed Feb 21 14:59:36 2018





Spectrum Information: Average of 4.946 to 5.015 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.6	3917	PASS
75	95	30	60	49.7	9942	PASS
95	95	100	100	100.0	20009	PASS
96	95	5	9	7.1	1429	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	74.9	14992	PASS
175	174	5	9	7.2	1081	PASS
176	174	95	101	98.6	14788	PASS
177	176	5	9	5.8	861	PASS

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 3M125780.D
Analysis Date: 03/01/18 19:47
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U

Worksheet #: 457092

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT Reviewed)

8022222 0174

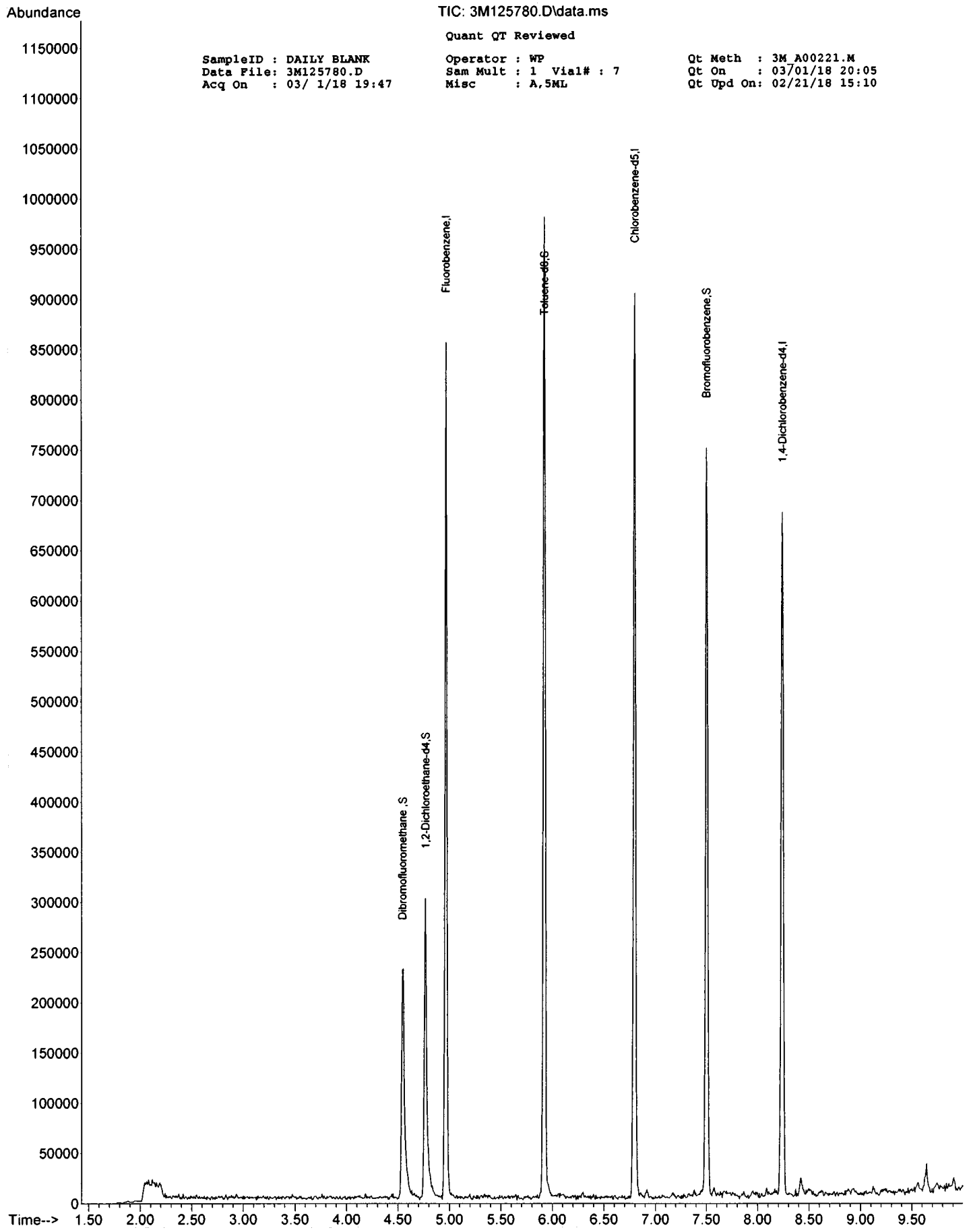
SampleID : DAILY BLANK Operator : WP Qt Meth : 3M_A00221.M
Data File: 3M125780.D Sam Mult : 1 Vial# : 7 Qt On : 03/01/18 20:05
Acq On : 03/ 1/18 19:47 Misc : A,5ML Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-0118\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.963	96	459412	30.00	ug/l	0.02
52) Chlorobenzene-d5	6.795	117	392088	30.00	ug/l	0.02
70) 1,4-Dichlorobenzene-d4	8.237	152	172608	30.00	ug/l	0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.543	111	127137	28.37	ug/l	0.02
Spiked Amount 30.000			Recovery = 94.57%			
39) 1,2-Dichloroethane-d4	4.765	67	88451	28.17	ug/l	0.02
Spiked Amount 30.000			Recovery = 93.90%			
66) Toluene-d8	5.918	98	468925	27.97	ug/l	0.02
Spiked Amount 30.000			Recovery = 93.23%			
76) Bromofluorobenzene	7.498	174	172416	27.17	ug/l	0.02
Spiked Amount 30.000			Recovery = 90.57%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed




Abundance
TIC: 3M125780.D\data.ms
Quant QT Reviewed
SampleID : DAILY BLANK
Data File: 3M125780.D
Acq On : 03/ 1/18 19:47
Operator : WP
Sam Mult : 1 Vial# : 7
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 03/01/18 20:05
Qt Upd On: 02/21/18 15:10
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 8M12790.D
Analysis Date: 02/28/18 21:29
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U

Worksheet #: 457092

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used.
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Quantitation Report (QT/LSC Reviewed)

8022222 0177

SampleID : DAILY BLANK Operator : SG Qt Meth : 8M_A0228.M
Data File: 8M12790.D Sam Mult : 1 Vial# : 41 Qt On : 03/01/18 08:59
Acq On : 02/28/18 21:29 Misc : A,5ML Qt Upd On: 02/28/18 21:07

Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.189	96	394377	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.784	117	298349	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.032	152	146149	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.807	111	84010	27.19	ug/l	0.00
Spiked Amount 30.000			Recovery = 90.63%			
39) 1,2-Dichloroethane-d4	5.006	67	46022	29.50	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.33%			
66) Toluene-d8	6.022	98	361599	27.56	ug/l	0.00
Spiked Amount 30.000			Recovery = 91.87%			
76) Bromofluorobenzene	7.398	174	110439	27.82	ug/l	0.00
Spiked Amount 30.000			Recovery = 92.73%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

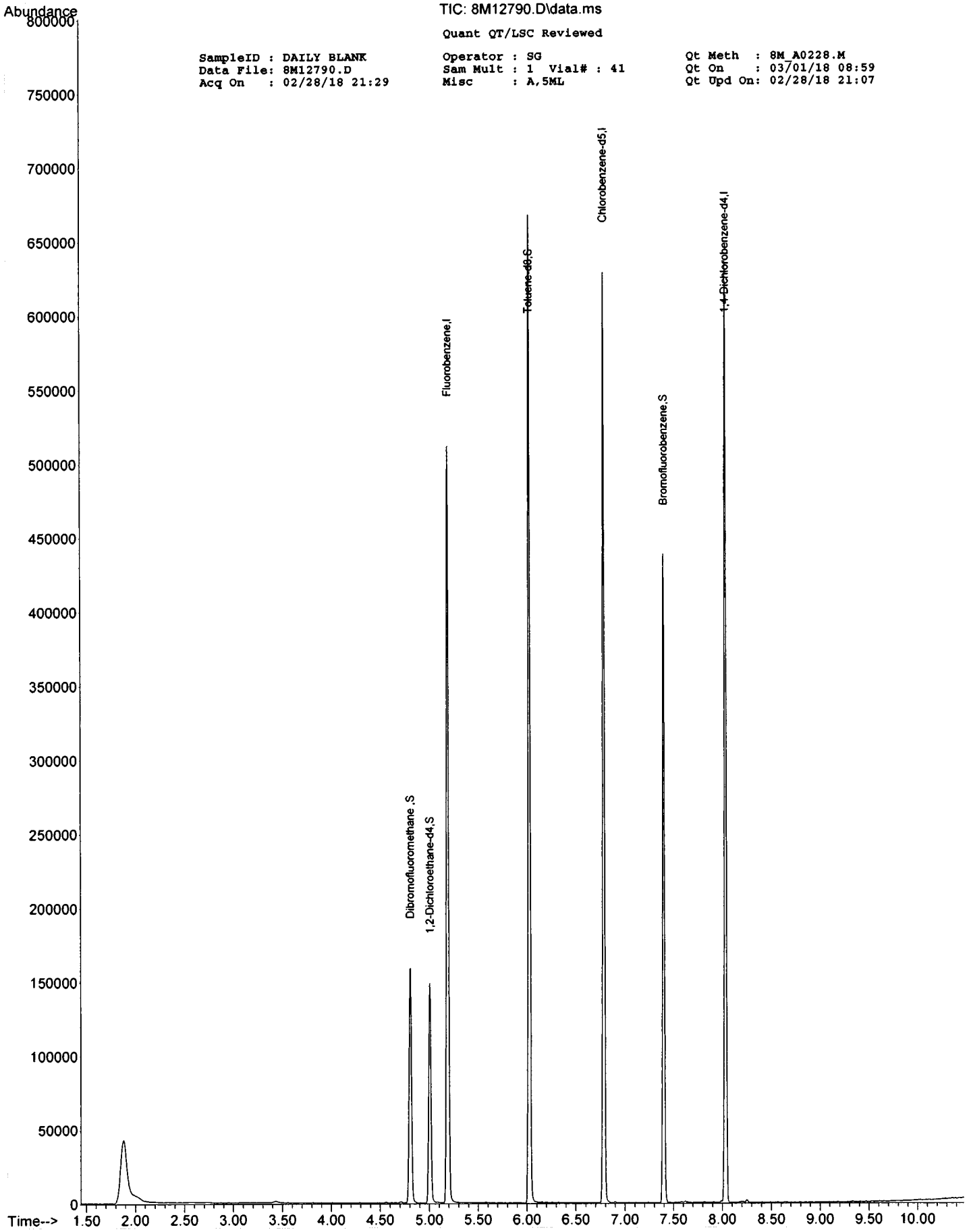
TIC: 8M12790.D\data.ms

Quant QT/LSC Reviewed

SampleID : DAILY BLANK
Data File: 8M12790.D
Acq On : 02/28/18 21:29

Operator : SG
Sam Mult : 1 Vial# : 41
Misc : A,5ML

Qt Meth : 8M_A0228.M
Qt On : 03/01/18 08:59
Qt Upd On: 02/28/18 21:07



Form3
Recovery Data Laboratory Limits
QC Batch: MBS67240

Data File	Sample ID:	Analysis Date
Spike or Dup: 8M12791.D	MBS67240	2/28/2018 9:47:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	16.3175	0	20	82	50	150
Dichlorodifluoromethane	1	17.9118	0	20	90	50	150
Chloromethane	1	16.6124	0	20	83	50	150
Bromomethane	1	16.4634	0	20	82	50	150
Vinyl Chloride	1	17.6275	0	20	88	50	150
Chloroethane	1	17.411	0	20	87	50	150
Trichlorofluoromethane	1	18.1204	0	20	91	50	150
Ethyl ether	1	16.0885	0	20	80	50	150
Furan	1	16.0497	0	20	80	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	18.8216	0	20	94	50	150
Methylene Chloride	1	16.7495	0	20	84	70	130
Acrolein	1	82.4881	0	100	82	50	150
Acrylonitrile	1	16.7061	0	20	84	50	150
Iodomethane	1	13.3875	0	20	67	50	150
Acetone	1	78.5509	0	100	79	50	150
Carbon Disulfide	1	17.3499	0	20	87	50	150
t-Butyl Alcohol	1	81.9579	0	100	82	50	150
n-Hexane	1	19.7578	0	20	99	70	130
Di-isopropyl-ether	1	16.951	0	20	85	70	130
1,1-Dichloroethene	1	17.4149	0	20	87	70	130
Methyl Acetate	1	16.2411	0	20	81	50	150
Methyl-t-butyl ether	1	16.6642	0	20	83	70	130
1,1-Dichloroethane	1	17.0897	0	20	85	70	130
trans-1,2-Dichloroethene	1	17.4619	0	20	87	70	130
Ethyl-t-butyl ether	1	16.5865	0	20	83	70	130
cis-1,2-Dichloroethene	1	17.2267	0	20	86	70	130
Bromochloromethane	1	17.0265	0	20	85	70	130
2,2-Dichloropropane	1	18.8351	0	20	94	70	130
Ethyl acetate	1	15.7729	0	20	79	50	150
1,4-Dioxane	1	620.9068	0	1000	62	50	150
1,1-Dichloropropene	1	18.1108	0	20	91	70	130
Chloroform	1	17.2021	0	20	86	70	130
Cyclohexane	1	18.8269	0	20	94	70	130
1,2-Dichloroethane	1	16.8062	0	20	84	70	130
2-Butanone	1	14.8285	0	20	74	50	150
1,1,1-Trichloroethane	1	17.475	0	20	87	70	130
Carbon Tetrachloride	1	17.7027	0	20	89	50	150
Vinyl Acetate	1	19.5917	0	20	98	50	150
Bromodichloromethane	1	16.8751	0	20	84	70	130
Methylcyclohexane	1	18.997	0	20	95	70	130
Dibromomethane	1	16.8083	0	20	84	70	130
1,2-Dichloropropane	1	17.1544	0	20	86	70	130
Trichloroethene	1	17.0558	0	20	85	70	130
Benzene	1	17.4597	0	20	87	70	130
tert-Amyl methyl ether	1	16.9601	0	20	85	70	130
Iso-propylacetate	1	16.675	0	20	83	70	130
Methyl methacrylate	1	18.4487	0	20	92	70	130
Dibromochloromethane	1	16.7197	0	20	84	70	130
2-Chloroethylvinylether	1	16.7548	0	20	84	70	130
cis-1,3-Dichloropropene	1	17.5312	0	20	88	70	130
trans-1,3-Dichloropropene	1	17.2489	0	20	86	70	130
Ethyl methacrylate	1	16.8985	0	20	84	70	130
1,1,2-Trichloroethane	1	17.2564	0	20	86	70	130
1,2-Dibromoethane	1	17.0665	0	20	85	70	130
1,3-Dichloropropane	1	17.3337	0	20	87	70	130
4-Methyl-2-Pentanone	1	16.6211	0	20	83	50	150
2-Hexanone	1	17.0239	0	20	85	50	150
Tetrachloroethene	1	18.6102	0	20	93	50	150
Toluene	1	17.5131	0	20	88	70	130
1,1,1,2-Tetrachloroethane	1	16.572	0	20	83	70	130
Chlorobenzene	1	17.0607	0	20	85	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS67240

n-Butyl acrylate	1	16.9387	0	20	85	70	130
n-Amyl acetate	1	16.3001	0	20	82	70	130
Bromoform	1	15.9963	0	20	80	70	130
Ethylbenzene	1	17.8626	0	20	89	70	130
1,1,2,2-Tetrachloroethane	1	16.8974	0	20	84	70	130
Styrene	1	18.3568	0	20	92	70	130
m&p-Xylenes	1	38.4961	0	40	96	70	130
o-Xylene	1	18.5404	0	20	93	70	130
trans-1,4-Dichloro-2-butene	1	17.2727	0	20	86	50	150
1,3-Dichlorobenzene	1	17.0634	0	20	85	70	130
1,4-Dichlorobenzene	1	16.7188	0	20	84	70	130
1,2-Dichlorobenzene	1	16.7048	0	20	84	70	130
Isopropylbenzene	1	18.8116	0	20	94	70	130
Cyclohexanone	1	104.9262	0	100	105	50	150
Camphene	1	19.1098	0	20	96	70	130
1,2,3-Trichloropropane	1	16.8955	0	20	84	70	130
2-Chlorotoluene	1	18.3154	0	20	92	70	130
p-Ethyltoluene	1	19.1481	0	20	96	70	130
4-Chlorotoluene	1	17.8548	0	20	89	70	130
n-Propylbenzene	1	18.2959	0	20	91	70	130
Bromobenzene	1	17.3803	0	20	87	70	130
1,3,5-Trimethylbenzene	1	18.9486	0	20	95	70	130
Butyl methacrylate	1	17.4842	0	20	87	70	130
t-Butylbenzene	1	18.0159	0	20	90	70	130
1,2,4-Trimethylbenzene	1	17.7253	0	20	89	70	130
sec-Butylbenzene	1	18.0252	0	20	90	70	130
4-Isopropyltoluene	1	18.4597	0	20	92	70	130
n-Butylbenzene	1	17.3195	0	20	87	70	130
p-Diethylbenzene	1	17.1862	0	20	86	70	130
1,2,4,5-Tetramethylbenzene	1	16.3026	0	20	82	70	130
1,2-Dibromo-3-Chloropropane	1	15.3858	0	20	77	50	150
Camphor	1	131.0456	0	200	66	20	150
Hexachlorobutadiene	1	18.1826	0	20	91	50	150
1,2,4-Trichlorobenzene	1	17.0351	0	20	85	70	130
1,2,3-Trichlorobenzene	1	16.3177	0	20	82	70	130
Naphthalene	1	16.2045	0	20	81	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

SampleID : MBS
Data File: 8M12791.D
Acq On : 02/28/18 21:47

Operator : SG
Sam Mult : 1 Vial# : 42
Misc : A,5ML

Qt Meth : 8M_A0228.M
Qt On : 03/01/18 08:59
Qt Upd On: 02/28/18 21:07

Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.189	96	428004	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.784	117	302105	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.032	152	143472	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.804	111	101635	30.31	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.03%			
39) 1,2-Dichloroethane-d4	5.003	67	51364	30.33	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.10%			
66) Toluene-d8	6.022	98	407583	30.68	ug/l	0.00
Spiked Amount 30.000			Recovery = 102.27%			
76) Bromofluorobenzene	7.398	174	121702	31.23	ug/l	0.00
Spiked Amount 30.000			Recovery = 104.10%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	2.045	51	45241	16.3175	ug/l	34
6) Dichlorodifluoromethane	2.029	85	39924	17.9118	ug/l	87
7) Chloromethane	2.196	50	42264	16.6124	ug/l	83
8) Bromomethane	2.553	94	32819	16.4634	ug/l	85
9) Vinyl Chloride	2.273	62	40852	17.6275	ug/l	97
10) Chloroethane	2.627	64	30049	17.4110	ug/l	91
11) Trichlorofluoromethane	2.829	101	69768	18.1204	ug/l	86
12) Ethyl ether	3.038	59	34122	16.0885	ug/l	64
13) Furan	3.077	39	51995m	16.0497	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	3.225	101	40117	18.8216	ug/l	94
15) Methylene Chloride	3.595	84	47907	16.7495	ug/l	73
16) Acrolein	3.141	56	41862	82.4881	ug/l	99
17) Acrylonitrile	3.775	53	14585	16.7061	ug/l	95
18) Iodomethane	3.366	142	39933	13.3875	ug/l	81
19) Acetone	3.254	43	44568	78.5509	ug/l	59
20) Carbon Disulfide	3.427	76	127025	17.3499	ug/l	100
21) t-Butyl Alcohol	3.038	59	34122	81.9579	ug/l	82
22) n-Hexane	4.019	57	48342m	19.7578	ug/l	
23) Di-isopropyl-ether	4.160	45	107310	16.9510	ug/l	74
24) 1,1-Dichloroethene	3.231	61	57109	17.4149	ug/l	65
25) Methyl Acetate	3.501	43	41319	16.2411	ug/l	100
26) Methyl-t-butyl ether	3.804	73	109257m	16.6642	ug/l	
27) 1,1-Dichloroethane	4.132	63	75900	17.0897	ug/l	99
28) trans-1,2-Dichloroethene	3.231	96	43137	17.4619	ug/l	78
29) Ethyl-t-butyl ether	4.411	59	116292	16.5865	ug/l	87
30) cis-1,2-Dichloroethene	4.524	61	72750	17.2267	ug/l	60
31) Bromochloromethane	4.675	49	35317	17.0265	ug/l	82
32) 2,2-Dichloropropane	4.533	77	68152	18.8351	ug/l	92
33) Ethyl acetate	4.543	43	37000m	15.7729	ug/l	
34) 1,4-Dioxane	5.569	88	8339	620.9068	ug/l	91
35) 1,1-Dichloropropene	4.926	75	66139	18.1108	ug/l	91
36) Chloroform	4.710	83	80306	17.2021	ug/l	87
38) Cyclohexane	4.878	56	68461	18.8269	ug/l	88
40) 1,2-Dichloroethane	5.048	62	53404	16.8062	ug/l	93
41) 2-Butanone	4.530	43	19288m	14.8285	ug/l	
42) 1,1,1-Trichloroethane	4.839	97	75576	17.4750	ug/l	99
43) Carbon Tetrachloride	4.935	117	63133	17.7027	ug/l	95
44) Vinyl Acetate	4.019	43	26166	19.5917	ug/l	100
45) Bromodichloromethane	5.643	83	56193	16.8751	ug/l	94
46) Methylcyclohexane	5.501	83	76655	18.9970	ug/l	79
47) Dibromomethane	5.572	174	34617	16.8083	ug/l	92
48) 1,2-Dichloropropane	5.508	63	44494	17.1544	ug/l	93
49) Trichloroethene	5.386	130	55658	17.0558	ug/l	87
50) Benzene	5.048	78	191027	17.4597	ug/l	100
51) tert-Amyl methyl ether	5.087	73	121437	16.9601	ug/l	66
53) Iso-propylacetate	5.038	43	71269m	16.6750	ug/l	
54) Methyl methacrylate	5.530	41	41465m	18.4487	ug/l	
55) Dibromochloromethane	6.476	129	48647	16.7197	ug/l	96
56) 2-Chloroethylvinylether	5.778	63	27812	16.7548	ug/l	88
57) cis-1,3-Dichloropropene	5.874	75	69889	17.5312	ug/l	93
58) trans-1,3-Dichloropropene	6.154	75	62132	17.2489	ug/l	99
59) Ethyl methacrylate	6.173	41	34549m	16.8985	ug/l	
60) 1,1,2-Trichloroethane	6.257	97	42895	17.2564	ug/l	93
61) 1,2-Dibromoethane	6.553	107	43588	17.0665	ug/l	90
62) 1,3-Dichloropropane	6.350	76	69047	17.3337	ug/l	100
63) 4-Methyl-2-Pentanone	5.935	43	35577	16.6211	ug/l	75
64) 2-Hexanone	6.363	43	24774	17.0239	ug/l	70
65) Tetrachloroethene	6.353	164	46602	18.6102	ug/l	94
67) Toluene	6.061	92	123469	17.5131	ug/l	97

Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 8M12791.D
Acq On : 02/28/18 21:47

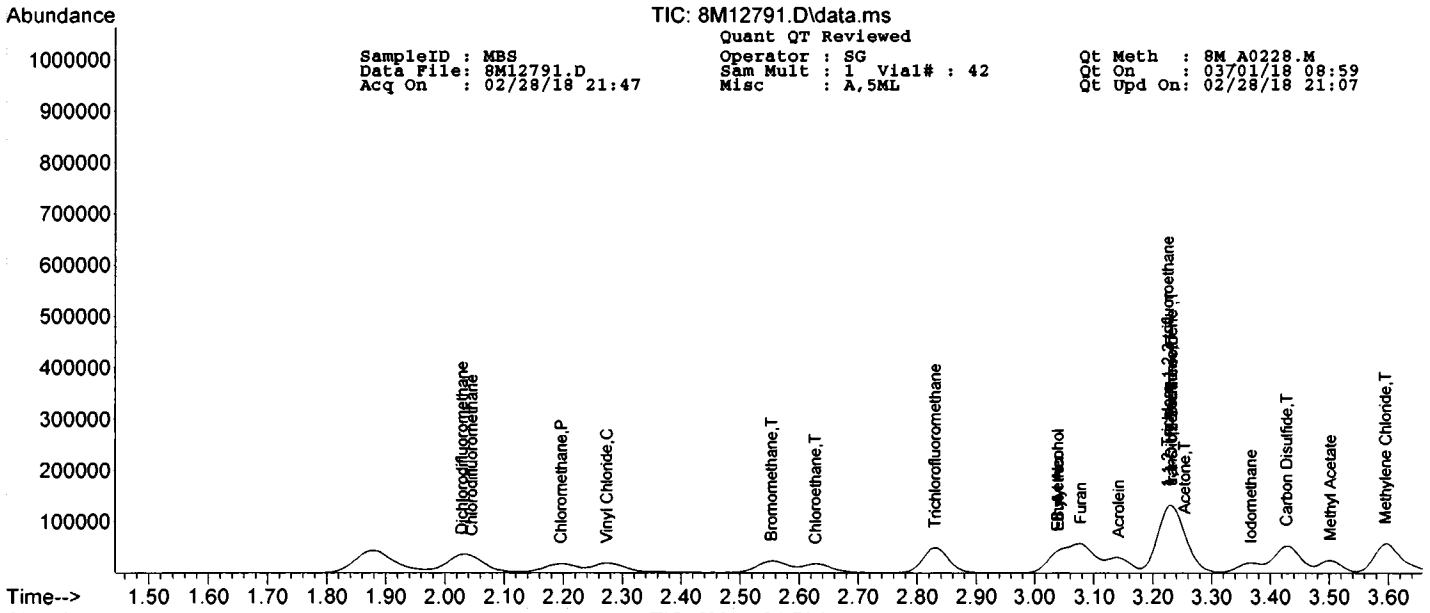
Operator : SG
Sam Mult : 1 Vial# : 42
Misc : A,5ML

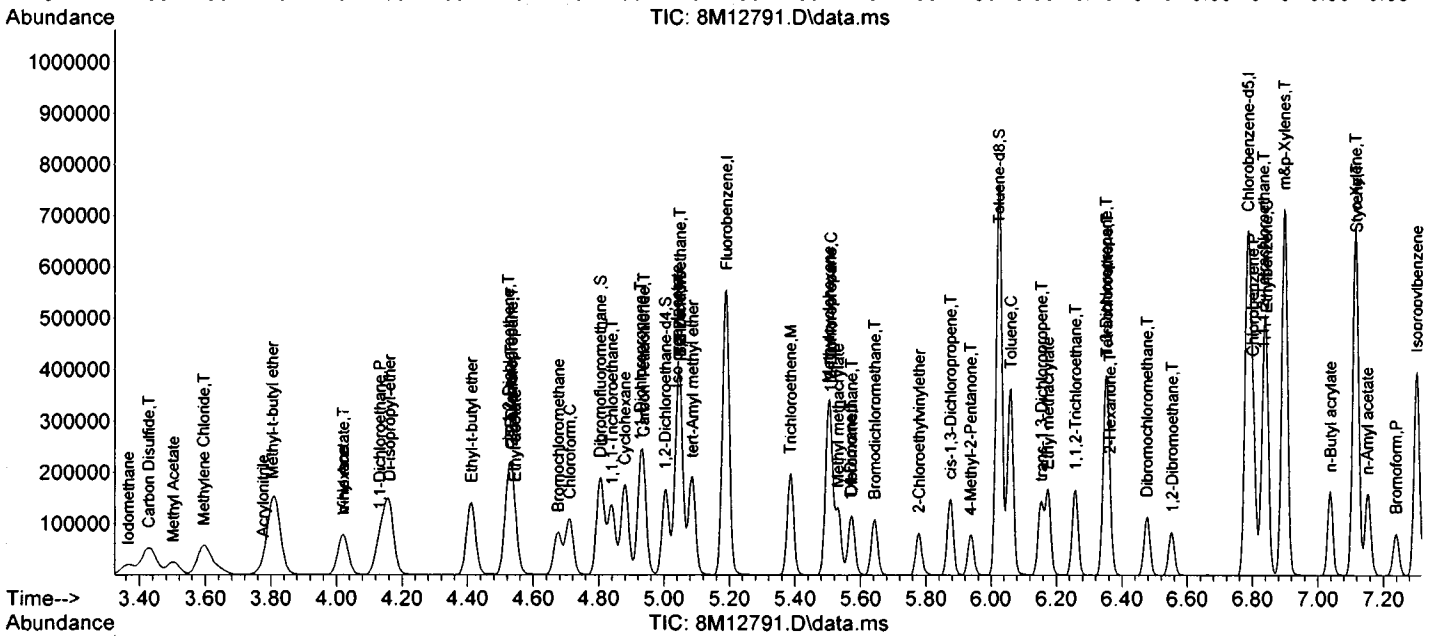
Qt Meth : 8M_A0228.M
Qt On : 03/01/18 08:59
Qt Upd On: 02/28/18 21:07

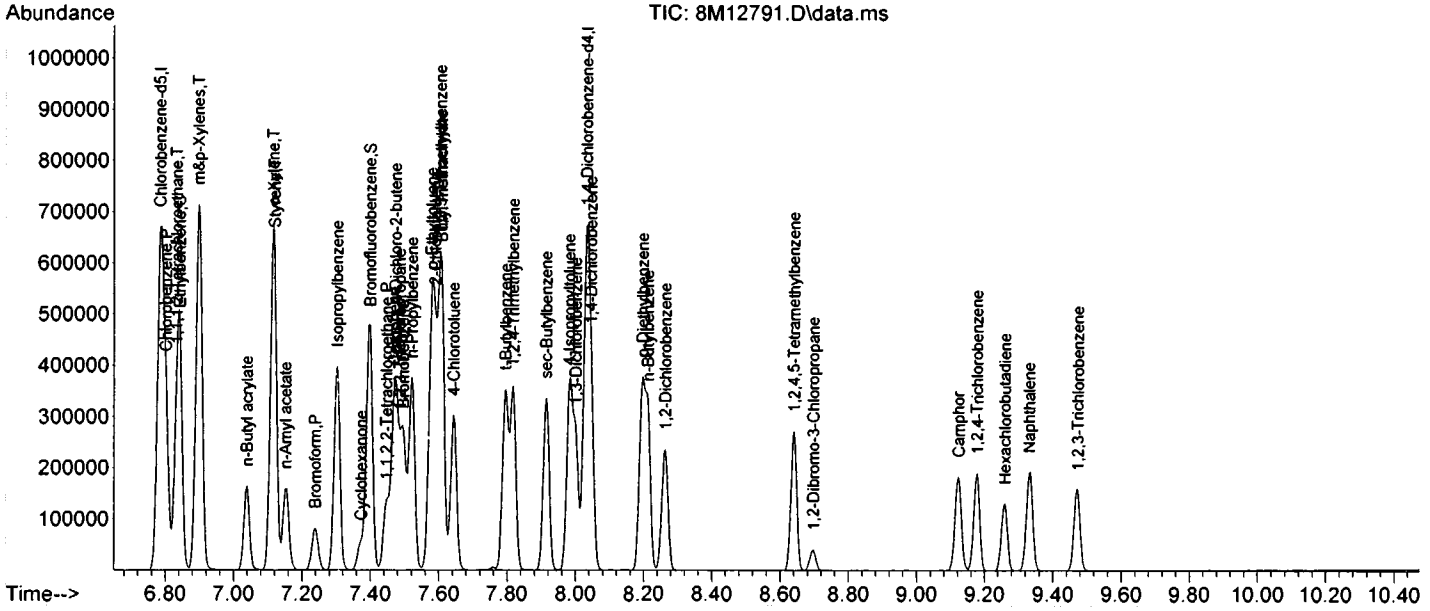
Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.832	133	42066	16.5720	ug/l	71
69)	Chlorobenzene	6.800	112	129787	17.0607	ug/l	97
71)	n-Butyl acrylate	7.038	55	74470	16.9387	ug/l	94
72)	n-Amyl acetate	7.151	43	53504m	16.3001	ug/l	
73)	Bromoform	7.238	173	30111	15.9963	ug/l	97
74)	Ethylbenzene	6.842	106	55184	17.8626	ug/l	74
75)	1,1,2,2-Tetrachloroethane	7.447	83	51041	16.8974	ug/l	90
77)	Styrene	7.119	104	137299	18.3568	ug/l	76
78)	m&p-Xylenes	6.897	106	172722	38.4961	ug/l	74
79)	o-Xylene	7.115	106	83835	18.5404	ug/l	60
80)	trans-1,4-Dichloro-2-b...	7.472	53	17183	17.2727	ug/l	39
81)	1,3-Dichlorobenzene	8.000	146	95067	17.0634	ug/l	82
82)	1,4-Dichlorobenzene	8.045	146	95941	16.7188	ug/l	91
83)	1,2-Dichlorobenzene	8.263	146	87483	16.7048	ug/l	84
84)	Isopropylbenzene	7.302	105	213775	18.8116	ug/l	88
85)	Cyclohexanone	7.373	55	17362	104.9262	ug/l	72
86)	Camphene	7.469	93	68711	19.1098	ug/l	86
87)	1,2,3-Trichloropropane	7.485	75	62847	16.8955	ug/l	91
88)	2-Chlorotoluene	7.588	91	124104	18.3154	ug/l	87
89)	p-Ethyltoluene	7.578	105	225682	19.1481	ug/l	87
90)	4-Chlorotoluene	7.643	91	118232	17.8548	ug/l	83
91)	n-Propylbenzene	7.521	91	233793	18.2959	ug/l	91
92)	Bromobenzene	7.495	77	115209	17.3803	ug/l	52
93)	1,3,5-Trimethylbenzene	7.604	105	169764	18.9486	ug/l	83
94)	Butyl methacrylate	7.607	41	43613m	17.4842	ug/l	
95)	t-Butylbenzene	7.794	119	164049	18.0159	ug/l	95
96)	1,2,4-Trimethylbenzene	7.816	105	162558	17.7253	ug/l	80
97)	sec-Butylbenzene	7.913	105	192651	18.0252	ug/l	97
98)	4-Isopropyltoluene	7.980	119	165277	18.4597	ug/l	83
99)	n-Butylbenzene	8.212	91	162609	17.3195	ug/l	91
100)	p-Diethylbenzene	8.196	119	98810	17.1862	ug/l	89
101)	1,2,4,5-Tetramethylben...	8.639	119	121426	16.3026	ug/l	98
102)	1,2-Dibromo-3-Chloropr...	8.697	157	10993	15.3858	ug/l	58
103)	Camphor	9.122	95	39890	131.0456	ug/l	85
104)	Hexachlorobutadiene	9.260	225	22861	18.1826	ug/l	98
105)	1,2,4-Trichlorobenzene	9.176	180	52778	17.0351	ug/l	96
106)	1,2,3-Trichlorobenzene	9.472	180	44675	16.3177	ug/l	98
107)	Naphthalene	9.331	128	133189	16.2045	ug/l	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 8M12791.D\data.ms
Quant QT Reviewed
SampleID : MBS
Data File: 8M12791.D
Acq On : 02/28/18 21:47
Operator : SG
Sam Mult : 1 Vial# : 42
Misc : A,5ML
Qt Meth : 8M_A0228.M
Qt On : 03/01/18 08:59
Qt Upd On: 02/28/18 21:07
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Furan
Acrolein
Acetone,I
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Time-->


Abundance
TIC: 8M12791.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Acrylonitrile
Methyl-t-butyl ether
1,1-Dichloroethane,P
Di-isopropyl-ether
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,T
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
Styrene,T
n-Amyl acetate
Bromoform,P
Isooctyl acrylate
Time-->


Abundance
TIC: 8M12791.D\data.ms
Chlorobenzene-d5,I
Chlorobenzene,T
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
Styrene,T
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
1,1,2,2-Tetrachloroethane,T
4-Chlorotoluene
n-Propylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Form3
Recovery Data Laboratory Limits
QC Batch: MBS67258

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M125782.D	MBS67258	3/1/2018 8:20:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	12.231	0	20	61	50	150
Dichlorodifluoromethane	1	10.601	0	20	53	50	150
Chloromethane	1	14.931	0	20	75	50	150
Bromomethane	1	15.5855	0	20	78	50	150
Vinyl Chloride	1	16.0651	0	20	80	50	150
Chloroethane	1	21.5354	0	20	108	50	150
Trichlorofluoromethane	1	18.0278	0	20	90	50	150
Ethyl ether	1	17.5456	0	20	88	50	150
Furan	1	15.362	0	20	77	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	21.3585	0	20	107	50	150
Methylene Chloride	1	16.8545	0	20	84	70	130
Acrolein	1	89.079	0	100	89	50	150
Acrylonitrile	1	16.2975	0	20	81	50	150
Iodomethane	1	19.0963	0	20	95	50	150
Acetone	1	83.5293	0	100	84	50	150
Carbon Disulfide	1	17.4136	0	20	87	50	150
t-Butyl Alcohol	1	80.0891	0	100	80	50	150
n-Hexane	1	19.2807	0	20	96	70	130
Di-isopropyl-ether	1	17.4144	0	20	87	70	130
1,1-Dichloroethene	1	17.9522	0	20	90	70	130
Methyl Acetate	1	14.9496	0	20	75	50	150
Methyl-t-butyl ether	1	16.511	0	20	83	70	130
1,1-Dichloroethane	1	17.8989	0	20	89	70	130
trans-1,2-Dichloroethene	1	19.5188	0	20	98	70	130
Ethyl-t-butyl ether	1	17.317	0	20	87	70	130
cis-1,2-Dichloroethene	1	18.3017	0	20	92	70	130
Bromochloromethane	1	15.6706	0	20	78	70	130
2,2-Dichloropropane	1	19.3145	0	20	97	70	130
Ethyl acetate	1	16.9087	0	20	85	50	150
1,4-Dioxane	1	868.1144	0	1000	87	50	150
1,1-Dichloropropene	1	18.9195	0	20	95	70	130
Chloroform	1	19.201	0	20	96	70	130
Cyclohexane	1	18.4513	0	20	92	70	130
1,2-Dichloroethane	1	18.4733	0	20	92	70	130
2-Butanone	1	17.3002	0	20	87	50	150
1,1,1-Trichloroethane	1	18.7191	0	20	94	70	130
Carbon Tetrachloride	1	20.7199	0	20	104	50	150
Vinyl Acetate	1	17.4246	0	20	87	50	150
Bromodichloromethane	1	18.2182	0	20	91	70	130
Methylcyclohexane	1	19.2509	0	20	96	70	130
Dibromomethane	1	19.8158	0	20	99	70	130
1,2-Dichloropropane	1	17.5486	0	20	88	70	130
Trichloroethene	1	19.8442	0	20	99	70	130
Benzene	1	18.4115	0	20	92	70	130
tert-Amyl methyl ether	1	18.3175	0	20	92	70	130
Iso-propylacetate	1	16.1788	0	20	81	70	130
Methyl methacrylate	1	17.5886	0	20	88	70	130
Dibromochloromethane	1	17.9384	0	20	90	70	130
2-Chloroethylvinylether	1	16.5964	0	20	83	70	130
cis-1,3-Dichloropropene	1	17.5903	0	20	88	70	130
trans-1,3-Dichloropropene	1	16.389	0	20	82	70	130
Ethyl methacrylate	1	15.7742	0	20	79	70	130
1,1,2-Trichloroethane	1	17.7439	0	20	89	70	130
1,2-Dibromoethane	1	17.002	0	20	85	70	130
1,3-Dichloropropane	1	16.8726	0	20	84	70	130
4-Methyl-2-Pentanone	1	14.0298	0	20	70	50	150
2-Hexanone	1	15.0501	0	20	75	50	150
Tetrachloroethene	1	17.8415	0	20	89	50	150
Toluene	1	17.4904	0	20	87	70	130
1,1,1,2-Tetrachloroethane	1	19.227	0	20	96	70	130
Chlorobenzene	1	18.1167	0	20	91	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS67258

n-Butyl acrylate	1	13.8024	0	20	69*	70	130
n-Amyl acetate	1	15.3245	0	20	77	70	130
Bromoform	1	16.1468	0	20	81	70	130
Ethylbenzene	1	18.9055	0	20	95	70	130
1,1,2,2-Tetrachloroethane	1	14.8656	0	20	74	70	130
Styrene	1	17.411	0	20	87	70	130
m&p-Xylenes	1	34.5842	0	40	86	70	130
o-Xylene	1	17.091	0	20	85	70	130
trans-1,4-Dichloro-2-butene	1	14.1475	0	20	71	50	150
1,3-Dichlorobenzene	1	17.3799	0	20	87	70	130
1,4-Dichlorobenzene	1	15.9611	0	20	80	70	130
1,2-Dichlorobenzene	1	17.2087	0	20	86	70	130
Isopropylbenzene	1	17.3925	0	20	87	70	130
Cyclohexanone	1	70.7249	0	100	71	50	150
Camphene	1	14.8731	0	20	74	70	130
1,2,3-Trichloropropane	1	14.7546	0	20	74	70	130
2-Chlorotoluene	1	16.6875	0	20	83	70	130
p-Ethyltoluene	1	16.48	0	20	82	70	130
4-Chlorotoluene	1	17.3768	0	20	87	70	130
n-Propylbenzene	1	17.1645	0	20	86	70	130
Bromobenzene	1	16.6712	0	20	83	70	130
1,3,5-Trimethylbenzene	1	17.866	0	20	89	70	130
Butyl methacrylate	1	14.8032	0	20	74	70	130
t-Butylbenzene	1	17.4825	0	20	87	70	130
1,2,4-Trimethylbenzene	1	16.9428	0	20	85	70	130
sec-Butylbenzene	1	16.2332	0	20	81	70	130
4-Isopropyltoluene	1	16.1692	0	20	81	70	130
n-Butylbenzene	1	15.0678	0	20	75	70	130
p-Diethylbenzene	1	15.7687	0	20	79	70	130
1,2,4,5-Tetramethylbenzene	1	15.5365	0	20	78	70	130
1,2-Dibromo-3-Chloropropane	1	12.0184	0	20	60	50	150
Camphor	1	135.0029	0	200	68	20	150
Hexachlorobutadiene	1	12.1457	0	20	61	50	150
1,2,4-Trichlorobenzene	1	13.4831	0	20	67*	70	130
1,2,3-Trichlorobenzene	1	14.665	0	20	73	70	130
Naphthalene	1	14.2031	0	20	71	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (QT Reviewed)

8022222 0186

SampleID : MBS
Data File: 3M125782.D
Acq On : 03/ 1/18 20:20

Operator : WP
Sam Mult : 1 Vial# : 9
Misc : A,5ML

Qt Meth : 3M_A00221.M
Qt On : 03/01/18 21:10
Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-0118\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.964	96	460129	30.00	ug/l	0.02
52) Chlorobenzene-d5	6.796	117	382855	30.00	ug/l	0.02
70) 1,4-Dichlorobenzene-d4	8.237	152	171243	30.00	ug/l	0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.543	111	135593	30.21	ug/l	0.02
Spiked Amount 30.000			Recovery = 100.70%			
39) 1,2-Dichloroethane-d4	4.765	67	94895	30.17	ug/l	0.02
Spiked Amount 30.000			Recovery = 100.57%			
66) Toluene-d8	5.919	98	483634	29.54	ug/l	0.02
Spiked Amount 30.000			Recovery = 98.47%			
76) Bromofluorobenzene	7.505	174	186656	29.65	ug/l	0.03
Spiked Amount 30.000			Recovery = 98.83%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.608	51	80086	12.2310	ug/l	38
6) Dichlorodifluoromethane	1.591	85	10321	10.6010	ug/l	92
7) Chloromethane	1.775	50	32460	14.9310	ug/l	97
8) Bromomethane	2.134	94	28008	15.5855	ug/l	96
9) Vinyl Chloride	1.841	62	37932	16.0651	ug/l	99
10) Chloroethane	2.212	64	37505	21.5354	ug/l	98
11) Trichlorofluoromethane	2.429	101	85413	18.0278	ug/l	95
12) Ethyl ether	2.651	59	57301	17.5456	ug/l	77
13) Furan	2.693	39	121384	15.3620	ug/l	99
14) 1,1,2-Trichloro-1,2,2-...	2.843	101	39725	21.3585	ug/l	95
15) Methylene Chloride	3.252	84	65381	16.8545	ug/l	85
16) Acrolein	2.777	56	53869	89.0790	ug/l	84
17) Acrylonitrile	3.456	53	21779	16.2975	ug/l	99
18) Iodomethane	2.993	142	75987	19.0963	ug/l	95
19) Acetone	2.897	43	115098	83.5293	ug/l	99
20) Carbon Disulfide	3.053	76	137138	17.4136	ug/l	100
21) t-Butyl Alcohol	3.312	59	34427	80.0891	ug/l	88
22) n-Hexane	3.684	57	29866	19.2807	ug/l	85
23) Di-isopropyl-ether	3.840	45	215803	17.4144	ug/l	98
24) 1,1-Dichloroethene	2.855	61	94653	17.9522	ug/l	90
25) Methyl Acetate	3.156	43	79877	14.9496	ug/l	100
26) Methyl-t-butyl ether	3.462	73	185769	16.5110	ug/l	65
27) 1,1-Dichloroethane	3.828	63	115736	17.8989	ug/l	96
28) trans-1,2-Dichloroethene	3.474	96	64923	19.5188	ug/l	93
29) Ethyl-t-butyl ether	4.105	59	229463	17.3170	ug/l	93
30) cis-1,2-Dichloroethene	4.237	61	123426	18.3017	ug/l	77
31) Bromochloromethane	4.399	49	58200	15.6706	ug/l	94
32) 2,2-Dichloropropane	4.243	77	93964	19.3145	ug/l	92
33) Ethyl acetate	4.261	43	81432m	16.9087	ug/l	
34) 1,4-Dioxane	5.402	88	38919	868.1144	ug/l	97
35) 1,1-Dichloropropene	4.663	75	90840	18.9195	ug/l	96
36) Chloroform	4.441	83	139267	19.2010	ug/l	81
38) Cyclohexane	4.597	56	48852	18.4513	ug/l	90
40) 1,2-Dichloroethane	4.813	62	131763	18.4733	ug/l	89
41) 2-Butanone	4.243	43	32231m	17.3002	ug/l	
42) 1,1,1-Trichloroethane	4.567	97	113915	18.7191	ug/l	94
43) Carbon Tetrachloride	4.669	117	90040	20.7199	ug/l	87
44) Vinyl Acetate	3.840	43	145713	17.4246	ug/l	100
45) Bromodichloromethane	5.492	83	96668	18.2182	ug/l	94
46) Methylcyclohexane	5.306	83	40036	19.2509	ug/l	89
47) Dibromomethane	5.414	174	63417	19.8158	ug/l	85
48) 1,2-Dichloropropane	5.336	63	60345	17.5486	ug/l	89
49) Trichloroethene	5.186	130	76538	19.8442	ug/l	84
50) Benzene	4.801	78	241134	18.4115	ug/l	100
51) tert-Amyl methyl ether	4.837	73	215829	18.3175	ug/l	72
53) Iso-propylacetate	4.795	43	168910	16.1788	ug/l	99
54) Methyl methacrylate	5.360	41	102366m	17.5886	ug/l	
55) Dibromochloromethane	6.447	129	77700	17.9384	ug/l	96
56) 2-Chloroethylvinylether	5.642	63	46483	16.5964	ug/l	82
57) cis-1,3-Dichloropropene	5.751	75	110033	17.5903	ug/l	84
58) trans-1,3-Dichloropropene	6.075	75	102807	16.3890	ug/l	94
59) Ethyl methacrylate	6.087	41	90705	15.7742	ug/l	76
60) 1,1,2-Trichloroethane	6.195	97	66914	17.7439	ug/l	85
61) 1,2-Dibromoethane	6.531	107	69695	17.0020	ug/l	84
62) 1,3-Dichloropropane	6.297	76	111468	16.8726	ug/l	96
63) 4-Methyl-2-Pentanone	5.829	43	71459	14.0298	ug/l	89
64) 2-Hexanone	6.315	43	51951	15.0501	ug/l	89
65) Tetrachloroethene	6.291	164	45117	17.8415	ug/l	88
67) Toluene	5.961	92	153822	17.4904	ug/l	90

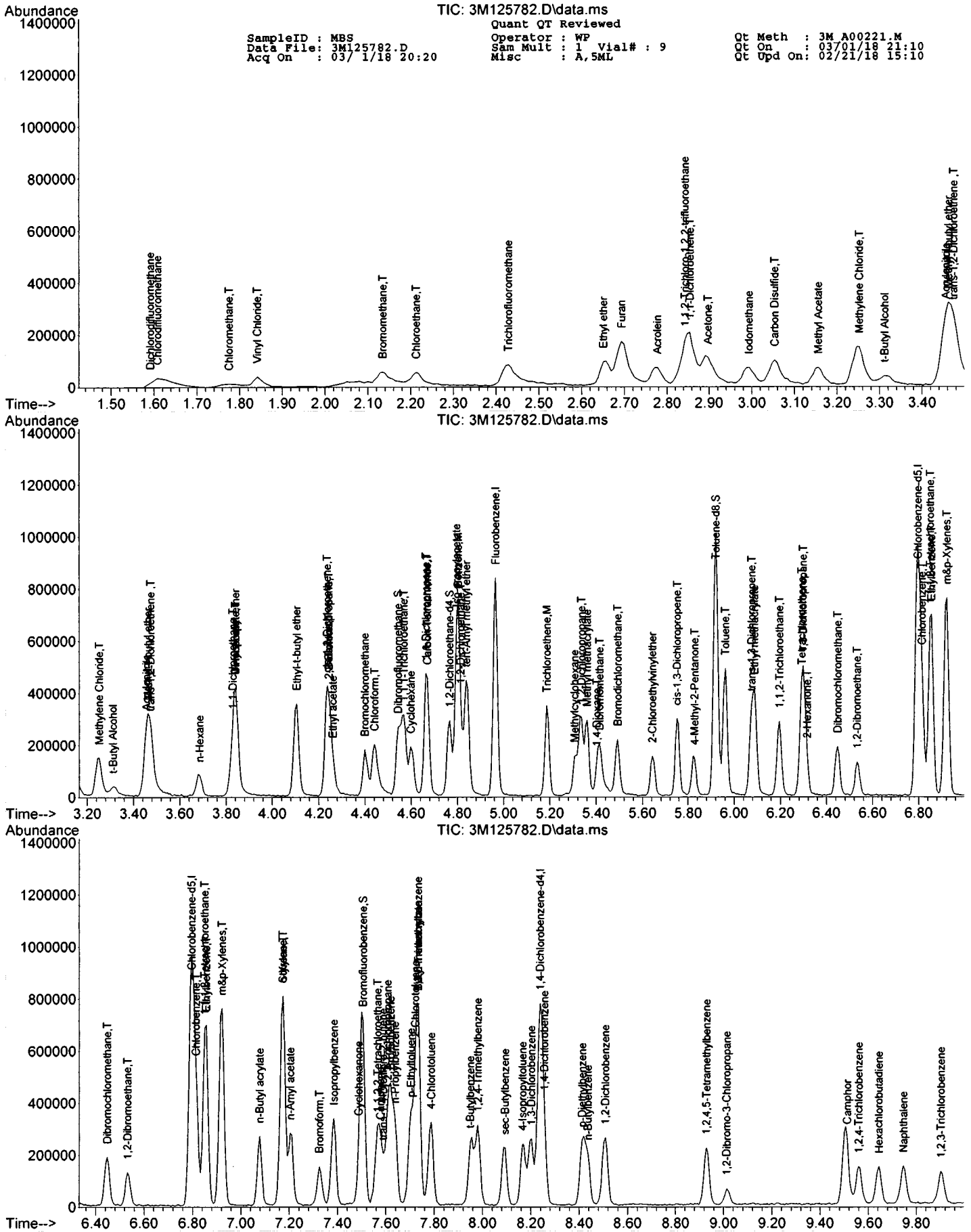
Quantitation Report (QT Reviewed)

SampleID : MBS
Data File: 3M125782.D
Acq On : 03/ 1/18 20:20
Operator : WP
Sam Mult : 1 Vial# : 9
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 03/01/18 21:10
Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-0118\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.850	133	69657	19.2270	ug/l	66
69)	Chlorobenzene	6.814	112	171736	18.1167	ug/l	98
71)	n-Butyl acrylate	7.078	55	130891	13.8024	ug/l	94
72)	n-Amyl acetate	7.204	43	126601	15.3245	ug/l	83
73)	Bromoform	7.324	173	52572	16.1468	ug/l	98
74)	Ethylbenzene	6.856	106	56320	18.9055	ug/l	77
75)	1,1,2,2-Tetrachloroethane	7.565	83	72060	14.8656	ug/l	98
77)	Styrene	7.174	104	169203	17.4110	ug/l	98
78)	m&p-Xylenes	6.922	106	172934	34.5842	ug/l	87
79)	o-Xylene	7.174	106	86372	17.0910	ug/l	71
80)	trans-1,4-Dichloro-2-b...	7.589	53	28947	14.1475	ug/l	67
81)	1,3-Dichlorobenzene	8.201	146	98718	17.3799	ug/l	86
82)	1,4-Dichlorobenzene	8.255	146	94360	15.9611	ug/l	93
83)	1,2-Dichlorobenzene	8.508	146	102501	17.2087	ug/l	92
84)	Isopropylbenzene	7.384	105	176443	17.3925	ug/l	91
85)	Cyclohexanone	7.487	55	13619	70.7249	ug/l	94
86)	Camphene	7.577	93	46960	14.8731	ug/l	100
87)	1,2,3-Trichloropropane	7.607	75	92128	14.7546	ug/l	94
88)	2-Chlorotoluene	7.721	91	102320	16.6875	ug/l	98
89)	p-Ethyltoluene	7.703	105	170573	16.4800	ug/l	83
90)	4-Chlorotoluene	7.787	91	112624	17.3768	ug/l	93
91)	n-Propylbenzene	7.637	91	173704	17.1645	ug/l	93
92)	Bromobenzene	7.619	77	166697	16.6712	ug/l	93
93)	1,3,5-Trimethylbenzene	7.733	105	116830	17.8660	ug/l	79
94)	Butyl methacrylate	7.733	41	103118	14.8032	ug/l	87
95)	t-Butylbenzene	7.949	119	123099	17.4825	ug/l	83
96)	1,2,4-Trimethylbenzene	7.979	105	149572	16.9428	ug/l	93
97)	sec-Butylbenzene	8.093	105	126763	16.2332	ug/l	93
98)	4-Isopropyltoluene	8.165	119	112375	16.1692	ug/l	93
99)	n-Butylbenzene	8.436	91	113968	15.0678	ug/l	87
100)	p-Diethylbenzene	8.412	119	73275	15.7687	ug/l	91
101)	1,2,4,5-Tetramethylben...	8.928	119	108382	15.5365	ug/l	92
102)	1,2-Dibromo-3-Chloropr...	9.012	157	14407	12.0184	ug/l	80
103)	Camphor	9.511	95	71664	135.0029	ug/l	96
104)	Hexachlorobutadiene	9.643	225	32802	12.1457	ug/l	88
105)	1,2,4-Trichlorobenzene	9.559	180	43930	13.4831	ug/l	98
106)	1,2,3-Trichlorobenzene	9.901	180	41374	14.6650	ug/l	95
107)	Naphthalene	9.745	128	111406	14.2031	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 3M125782.D\data.ms
Quant QT Reviewed
SampleID : MBS
Data File: 3M125782.D
Acq On : 03/ 1/18 20:20
Operator : WP
Sam Mult : 1 Vial# : 9
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 03/01/18 21:10
Qt Upd On: 02/21/18 15:10
Abundance
Time-->

Form3
Recovery Data Laboratory Limits
QC Batch: MBS67240

Data File	Sample ID:	Analysis Date
Spike or Dup: 8M12796.D	AD02720-011(MS)	2/28/2018 11:16:00 PM
Non Spike(If applicable): 8M12794.D	AD02720-011	2/28/2018 10:41:00 PM
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	15.0632	0	20	75	50	150
Dichlorodifluoromethane	1	16.4524	0	20	82	50	150
Chloromethane	1	15.5062	0	20	78	50	150
Bromomethane	1	15.2384	0	20	76	50	150
Vinyl Chloride	1	16.5741	0	20	83	50	150
Chloroethane	1	16.7757	0	20	84	50	150
Trichlorofluoromethane	1	16.5502	0	20	83	50	150
Ethyl ether	1	15.3106	0	20	77	50	150
Furan	1	15.0968	0	20	75	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	17.114	0	20	86	50	150
Methylene Chloride	1	15.5665	0	20	78	70	130
Acrolein	1	83.5879	0	100	84	50	150
Acrylonitrile	1	16.5881	0	20	83	50	150
Iodomethane	1	11.9385	0	20	60	50	150
Acetone	1	81.3007	0	100	81	50	150
Carbon Disulfide	1	16.0956	0	20	80	50	150
t-Butyl Alcohol	1	77.9947	0	100	78	50	150
n-Hexane	1	17.1795	0	20	86	70	130
Di-isopropyl-ether	1	15.8884	0	20	79	70	130
1,1-Dichloroethene	1	16.3228	0	20	82	70	130
Methyl Acetate	1	15.9926	0	20	80	50	150
Methyl-t-butyl ether	1	15.6192	0	20	78	70	130
1,1-Dichloroethane	1	16.0671	0	20	80	70	130
trans-1,2-Dichloroethene	1	16.3468	0	20	82	70	130
Ethyl-t-butyl ether	1	15.2662	0	20	76	70	130
cis-1,2-Dichloroethene	1	15.8912	0	20	79	70	130
Bromochloromethane	1	15.7173	0	20	79	70	130
2,2-Dichloropropane	1	16.8149	0	20	84	70	130
Ethyl acetate	1	16.0752	0	20	80	50	150
1,4-Dioxane	1	1210.131	0	1000	121	50	150
1,1-Dichloropropene	1	15.8343	0	20	79	70	130
Chloroform	1	15.4055	0	20	77	70	130
Cyclohexane	1	16.2707	0	20	81	70	130
1,2-Dichloroethane	1	16.0626	0	20	80	70	130
2-Butanone	1	10.4646	0	20	52	50	150
1,1,1-Trichloroethane	1	15.215	0	20	76	70	130
Carbon Tetrachloride	1	16.4137	0	20	82	50	150
Vinyl Acetate	1	17.4441	0	20	87	50	150
Bromodichloromethane	1	16.0753	0	20	80	70	130
Methylcyclohexane	1	17.2502	0	20	86	70	130
Dibromomethane	1	15.9202	0	20	80	70	130
1,2-Dichloropropane	1	16.3089	0	20	82	70	130
Trichloroethene	1	16.7376	0	20	84	70	130
Benzene	1	16.555	0	20	83	70	130
tert-Amyl methyl ether	1	15.8326	0	20	79	70	130
Iso-propylacetate	1	15.1477	0	20	76	70	130
Methyl methacrylate	1	14.8665	0	20	74	70	130
Dibromochloromethane	1	15.2928	0	20	76	70	130
2-Chloroethylvinylether	1	0	0	20	0*	70	130
cis-1,3-Dichloropropene	1	14.5201	0	20	73	70	130
trans-1,3-Dichloropropene	1	14.9542	0	20	75	70	130
Ethyl methacrylate	1	13.8301	0	20	69*	70	130
1,1,2-Trichloroethane	1	15.8562	0	20	79	70	130
1,2-Dibromoethane	1	15.5558	0	20	78	70	130
1,3-Dichloropropane	1	15.8259	0	20	79	70	130
4-Methyl-2-Pentanone	1	13.7085	0	20	69	50	150
2-Hexanone	1	15.8861	0	20	79	50	150
Tetrachloroethene	1	16.4158	0	20	82	50	150
Toluene	1	14.8767	0	20	74	70	130
1,1,1,2-Tetrachloroethane	1	14.9035	0	20	75	70	130
Chlorobenzene	1	15.2814	0	20	76	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Recovery Data Laboratory Limits

QC Batch: MBS67240

n-Butyl acrylate	1	15.2868	0	20	76	70	130
n-Amyl acetate	1	14.3485	0	20	72	70	130
Bromoform	1	14.1497	0	20	71	70	130
Ethylbenzene	1	14.4731	0	20	72	70	130
1,1,2,2-Tetrachloroethane	1	14.4841	0	20	72	70	130
Styrene	1	15.5591	0	20	78	70	130
m&p-Xylenes	1	31.4263	0	40	79	70	130
o-Xylene	1	15.5399	0	20	78	70	130
trans-1,4-Dichloro-2-butene	1	13.3275	0	20	67	50	150
1,3-Dichlorobenzene	1	15.5617	0	20	78	70	130
1,4-Dichlorobenzene	1	15.3976	0	20	77	70	130
1,2-Dichlorobenzene	1	15.428	0	20	77	70	130
Isopropylbenzene	1	15.3855	0	20	77	70	130
Cyclohexanone	1	26.0254	0	100	26*	50	150
Camphene	1	10.0912	0	20	50*	70	130
1,2,3-Trichloropropane	1	15.3386	0	20	77	70	130
2-Chlorotoluene	1	14.5142	0	20	73	70	130
p-Ethyltoluene	1	15.144	0	20	76	70	130
4-Chlorotoluene	1	15.7606	0	20	79	70	130
n-Propylbenzene	1	15.398	0	20	77	70	130
Bromobenzene	1	14.626	0	20	73	70	130
1,3,5-Trimethylbenzene	1	15.5367	0	20	78	70	130
Butyl methacrylate	1	14.9232	0	20	75	70	130
t-Butylbenzene	1	15.3038	0	20	77	70	130
1,2,4-Trimethylbenzene	1	15.1283	0	20	76	70	130
sec-Butylbenzene	1	15.5757	0	20	78	70	130
4-Isopropyltoluene	1	15.0682	0	20	75	70	130
n-Butylbenzene	1	15.3429	0	20	77	70	130
p-Diethylbenzene	1	15.2411	0	20	76	70	130
1,2,4,5-Tetramethylbenzene	1	14.6841	0	20	73	70	130
1,2-Dibromo-3-Chloropropane	1	14.8836	0	20	74	50	150
Camphor	1	139.8584	0	200	70	20	150
Hexachlorobutadiene	1	15.7472	0	20	79	50	150
1,2,4-Trichlorobenzene	1	14.7935	0	20	74	70	130
1,2,3-Trichlorobenzene	1	13.9463	0	20	70	70	130
Naphthalene	1	14.5408	0	20	73	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS67240

Data File	Sample ID:	Analysis Date
Spike or Dup: 8M12797.D	AD02720-011(MSD)	2/28/2018 11:34:00 PM
Non Spike(If applicable): 8M12794.D	AD02720-011	2/28/2018 10:41:00 PM
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	18.0391	0	20	90	50	150
Dichlorodifluoromethane	1	19.9128	0	20	100	50	150
Chloromethane	1	18.3748	0	20	92	50	150
Bromomethane	1	18.0133	0	20	90	50	150
Vinyl Chloride	1	19.5478	0	20	98	50	150
Chloroethane	1	19.4849	0	20	97	50	150
Trichlorofluoromethane	1	19.867	0	20	99	50	150
Ethyl ether	1	18.2029	0	20	91	50	150
Furan	1	18.0854	0	20	90	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	20.6152	0	20	103	50	150
Methylene Chloride	1	18.5252	0	20	93	70	130
Acrolein	1	96.5551	0	100	97	50	150
Acrylonitrile	1	19.3672	0	20	97	50	150
Iodomethane	1	16.7027	0	20	84	50	150
Acetone	1	94.9308	0	100	95	50	150
Carbon Disulfide	1	19.1173	0	20	96	50	150
t-Butyl Alcohol	1	92.7288	0	100	93	50	150
n-Hexane	1	21.2798	0	20	106	70	130
Di-isopropyl-ether	1	18.5288	0	20	93	70	130
1,1-Dichloroethene	1	19.323	0	20	97	70	130
Methyl Acetate	1	18.7752	0	20	94	50	150
Methyl-t-butyl ether	1	18.4357	0	20	92	70	130
1,1-Dichloroethane	1	18.8521	0	20	94	70	130
trans-1,2-Dichloroethene	1	19.2124	0	20	96	70	130
Ethyl-t-butyl ether	1	17.3915	0	20	87	70	130
cis-1,2-Dichloroethene	1	17.7132	0	20	89	70	130
Bromochloromethane	1	17.5275	0	20	88	70	130
2,2-Dichloropropane	1	18.4812	0	20	92	70	130
Ethyl acetate	1	17.4204	0	20	87	50	150
1,4-Dioxane	1	1321.414	0	1000	132	50	150
1,1-Dichloropropene	1	18.5121	0	20	93	70	130
Chloroform	1	17.4198	0	20	87	70	130
Cyclohexane	1	19.4153	0	20	97	70	130
1,2-Dichloroethane	1	16.7524	0	20	84	70	130
2-Butanone	1	11.192	0	20	56	50	150
1,1,1-Trichloroethane	1	17.9284	0	20	90	70	130
Carbon Tetrachloride	1	18.4738	0	20	92	50	150
Vinyl Acetate	1	21.216	0	20	106	50	150
Bromodichloromethane	1	17.0954	0	20	85	70	130
Methylcyclohexane	1	19.3088	0	20	97	70	130
Dibromomethane	1	17.5141	0	20	88	70	130
1,2-Dichloropropane	1	17.7735	0	20	89	70	130
Trichloroethene	1	18.1418	0	20	91	70	130
Benzene	1	18.1921	0	20	91	70	130
tert-Amyl methyl ether	1	17.3475	0	20	87	70	130
Iso-propylacetate	1	16.8817	0	20	84	70	130
Methyl methacrylate	1	16.39	0	20	82	70	130
Dibromochloromethane	1	18.699	0	20	93	70	130
2-Chloroethylvinylether	1	0	0	20	0*	70	130
cis-1,3-Dichloropropene	1	17.5839	0	20	88	70	130
trans-1,3-Dichloropropene	1	18.2604	0	20	91	70	130
Ethyl methacrylate	1	16.823	0	20	84	70	130
1,1,2-Trichloroethane	1	19.252	0	20	96	70	130
1,2-Dibromoethane	1	18.1079	0	20	91	70	130
1,3-Dichloropropane	1	18.0847	0	20	90	70	130
4-Methyl-2-Pentanone	1	17.4302	0	20	87	50	150
2-Hexanone	1	17.1993	0	20	86	50	150
Tetrachloroethene	1	19.139	0	20	96	50	150
Toluene	1	18.5836	0	20	93	70	130
1,1,1,2-Tetrachloroethane	1	18.6068	0	20	93	70	130
Chlorobenzene	1	18.5362	0	20	93	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS67240

n-Butyl acrylate	1	16.8703	0	20	84	70	130
n-Amyl acetate	1	16.3598	0	20	82	70	130
Bromoform	1	16.5989	0	20	83	70	130
Ethylbenzene	1	17.7346	0	20	89	70	130
1,1,2,2-Tetrachloroethane	1	18.9241	0	20	95	70	130
Styrene	1	18.0473	0	20	90	70	130
m&p-Xylenes	1	37.6146	0	40	94	70	130
o-Xylene	1	17.9438	0	20	90	70	130
trans-1,4-Dichloro-2-butene	1	16.2221	0	20	81	50	150
1,3-Dichlorobenzene	1	17.9211	0	20	90	70	130
1,4-Dichlorobenzene	1	18.5161	0	20	93	70	130
1,2-Dichlorobenzene	1	18.6104	0	20	93	70	130
Isopropylbenzene	1	18.1537	0	20	91	70	130
Cyclohexanone	1	29.5325	0	100	30*	50	150
Camphene	1	11.5136	0	20	58*	70	130
1,2,3-Trichloropropane	1	18.8226	0	20	94	70	130
2-Chlorotoluene	1	19.0552	0	20	95	70	130
p-Ethyltoluene	1	19.7833	0	20	99	70	130
4-Chlorotoluene	1	19.2732	0	20	96	70	130
n-Propylbenzene	1	20.1933	0	20	101	70	130
Bromobenzene	1	18.2343	0	20	91	70	130
1,3,5-Trimethylbenzene	1	19.6388	0	20	98	70	130
Butyl methacrylate	1	19.8716	0	20	99	70	130
t-Butylbenzene	1	18.8497	0	20	94	70	130
1,2,4-Trimethylbenzene	1	18.9578	0	20	95	70	130
sec-Butylbenzene	1	19.4635	0	20	97	70	130
4-Isopropyltoluene	1	18.2461	0	20	91	70	130
n-Butylbenzene	1	18.1227	0	20	91	70	130
p-Diethylbenzene	1	17.7	0	20	89	70	130
1,2,4,5-Tetramethylbenzene	1	18.3566	0	20	92	70	130
1,2-Dibromo-3-Chloropropane	1	17.347	0	20	87	50	150
Camphor	1	177.4907	0	200	89	20	150
Hexachlorobutadiene	1	19.2815	0	20	96	50	150
1,2,4-Trichlorobenzene	1	18.9844	0	20	95	70	130
1,2,3-Trichlorobenzene	1	18.6384	0	20	93	70	130
Naphthalene	1	18.665	0	20	93	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: MBS67240

	Data File	Sample ID:	Analysis Date
Spike or Dup:	8M12797.D	AD02720-011(MSD)	2/28/2018 11:34:00 PM
Duplicate(If applicable):	8M12796.D	AD02720-011(MS)	2/28/2018 11:16:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	18.0391	15.0632	18	30
Dichlorodifluoromethane	1	19.9128	16.4524	19	30
Chloromethane	1	18.3748	15.5062	17	30
Bromomethane	1	18.0133	15.2384	17	30
Vinyl Chloride	1	19.5478	16.5741	16	40
Chloroethane	1	19.4849	16.7757	15	30
Trichlorofluoromethane	1	19.867	16.5502	18	30
Ethyl ether	1	18.2029	15.3106	17	30
Furan	1	18.0854	15.0968	18	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	20.6152	17.114	19	30
Methylene Chloride	1	18.5252	15.5665	17	30
Acrolein	1	96.5551	83.5879	14	30
Acrylonitrile	1	19.3672	16.5881	15	30
Iodomethane	1	16.7027	11.9385	33*	30
Acetone	1	94.9308	81.3007	15	30
Carbon Disulfide	1	19.1173	16.0956	17	30
t-Butyl Alcohol	1	92.7288	77.9947	17	30
n-Hexane	1	21.2798	17.1795	21	30
Di-isopropyl-ether	1	18.5288	15.8884	15	30
1,1-Dichloroethene	1	19.323	16.3228	17	40
Methyl Acetate	1	18.7752	15.9926	16	30
Methyl-t-butyl ether	1	18.4357	15.6192	17	30
1,1-Dichloroethane	1	18.8521	16.0671	16	40
trans-1,2-Dichloroethene	1	19.2124	16.3468	16	30
Ethyl-t-butyl ether	1	17.3915	15.2662	13	30
cis-1,2-Dichloroethene	1	17.7132	15.8912	11	30
Bromochloromethane	1	17.5275	15.7173	11	30
2,2-Dichloropropane	1	18.4812	16.8149	9.4	30
Ethyl acetate	1	17.4204	16.0752	8	30
1,4-Dioxane	1	1321.414	1210.131	8.8	30
1,1-Dichloropropene	1	18.5121	15.8343	16	30
Chloroform	1	17.4198	15.4055	12	40
Cyclohexane	1	19.4153	16.2707	18	30
1,2-Dichloroethane	1	16.7524	16.0626	4.2	40
2-Butanone	1	11.192	10.4646	6.7	40
1,1,1-Trichloroethane	1	17.9284	15.215	16	30
Carbon Tetrachloride	1	18.4738	16.4137	12	40
Vinyl Acetate	1	21.216	17.4441	20	30
Bromodichloromethane	1	17.0954	16.0753	6.2	30
Methylcyclohexane	1	19.3088	17.2502	11	30
Dibromomethane	1	17.5141	15.9202	9.5	30
1,2-Dichloropropane	1	17.7735	16.3089	8.6	30
Trichloroethene	1	18.1418	16.7376	8.1	40
Benzene	1	18.1921	16.555	9.4	40
tert-Amyl methyl ether	1	17.3475	15.8326	9.1	30
Iso-propylacetate	1	16.8817	15.1477	11	30
Methyl methacrylate	1	16.39	14.8665	9.7	30
Dibromochloromethane	1	18.699	15.2928	20	30
2-Chloroethylvinylether	1	0	0	NA	30
cis-1,3-Dichloropropene	1	17.5839	14.5201	19	30
trans-1,3-Dichloropropene	1	18.2604	14.9542	20	30
Ethyl methacrylate	1	16.823	13.8301	20	30
1,1,2-Trichloroethane	1	19.252	15.8562	19	30
1,2-Dibromoethane	1	18.1079	15.5558	15	30
1,3-Dichloropropane	1	18.0847	15.8259	13	30
4-Methyl-2-Pentanone	1	17.4302	13.7085	24	30
2-Hexanone	1	17.1993	15.8861	7.9	30
Tetrachloroethene	1	19.139	16.4158	15	40
Toluene	1	18.5836	14.8767	22	40
1,1,1,2-Tetrachloroethane	1	18.6068	14.9035	22	30
Chlorobenzene	1	18.5362	15.2814	19	40
n-Butyl acrylate	1	16.8703	15.2868	9.8	30
n-Amyl acetate	1	16.3598	14.3485	13	30

Form3
RPD Data Laboratory Limits
QC Batch: MBS67240

Bromoform	1	16.5989	14.1497	16	30
Ethylbenzene	1	17.7346	14.4731	20	30
1,1,2,2-Tetrachloroethane	1	18.9241	14.4841	27	30
Styrene	1	18.0473	15.5591	15	30
m&p-Xylenes	1	37.6146	31.4263	18	30
o-Xylene	1	17.9438	15.5399	14	30
trans-1,4-Dichloro-2-butene	1	16.2221	13.3275	20	30
1,3-Dichlorobenzene	1	17.9211	15.5617	14	30
1,4-Dichlorobenzene	1	18.5161	15.3976	18	40
1,2-Dichlorobenzene	1	18.6104	15.428	19	40
Isopropylbenzene	1	18.1537	15.3855	17	30
Cyclohexanone	1	29.5325	26.0254	13	30
Camphene	1	11.5136	10.0912	13	30
1,2,3-Trichloropropane	1	18.8226	15.3386	20	30
2-Chlorotoluene	1	19.0552	14.5142	27	30
p-Ethyltoluene	1	19.7833	15.144	27	30
4-Chlorotoluene	1	19.2732	15.7606	20	30
n-Propylbenzene	1	20.1933	15.398	27	40
Bromobenzene	1	18.2343	14.626	22	30
1,3,5-Trimethylbenzene	1	19.6388	15.5367	23	30
Butyl methacrylate	1	19.8716	14.9232	28	30
t-Butylbenzene	1	18.8497	15.3038	21	30
1,2,4-Trimethylbenzene	1	18.9578	15.1283	22	30
sec-Butylbenzene	1	19.4635	15.5757	22	40
4-Isopropyltoluene	1	18.2461	15.0682	19	30
n-Butylbenzene	1	18.1227	15.3429	17	30
p-Diethylbenzene	1	17.7	15.2411	15	30
1,2,4,5-Tetramethylbenzene	1	18.3566	14.6841	22	30
1,2-Dibromo-3-Chloropropane	1	17.347	14.8836	15	30
Camphor	1	177.4907	139.8584	24	30
Hexachlorobutadiene	1	19.2815	15.7472	20	30
1,2,4-Trichlorobenzene	1	18.9844	14.7935	25	30
1,2,3-Trichlorobenzene	1	18.6384	13.9463	29	30
Naphthalene	1	18.665	14.5408	25	30

* - Indicates outside of limits

NA - Both concentrations=0... no result can be calculated

Quantitation Report (QT/LSC Reviewed)

8022222 0195

SampleID : AD02720-011 Operator : SG Qt Meth : 8M_A0228.M
Data File: 8M12794.D Sam Mult : 1 Vial# : 45 Qt On : 03/01/18 09:00
Acq On : 02/28/18 22:41 Misc : A,5ML!2 Qt Upd On: 02/28/18 21:07

Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.189	96	411849	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.784	117	298694	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.032	152	141578	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.804	111	98124	30.41	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.37%			
39) 1,2-Dichloroethane-d4	5.006	67	48421	29.72	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.07%			
66) Toluene-d8	6.025	98	394855	30.06	ug/l	0.00
Spiked Amount 30.000			Recovery = 100.20%			
76) Bromofluorobenzene	7.398	174	122394	31.83	ug/l	0.00
Spiked Amount 30.000			Recovery = 106.10%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

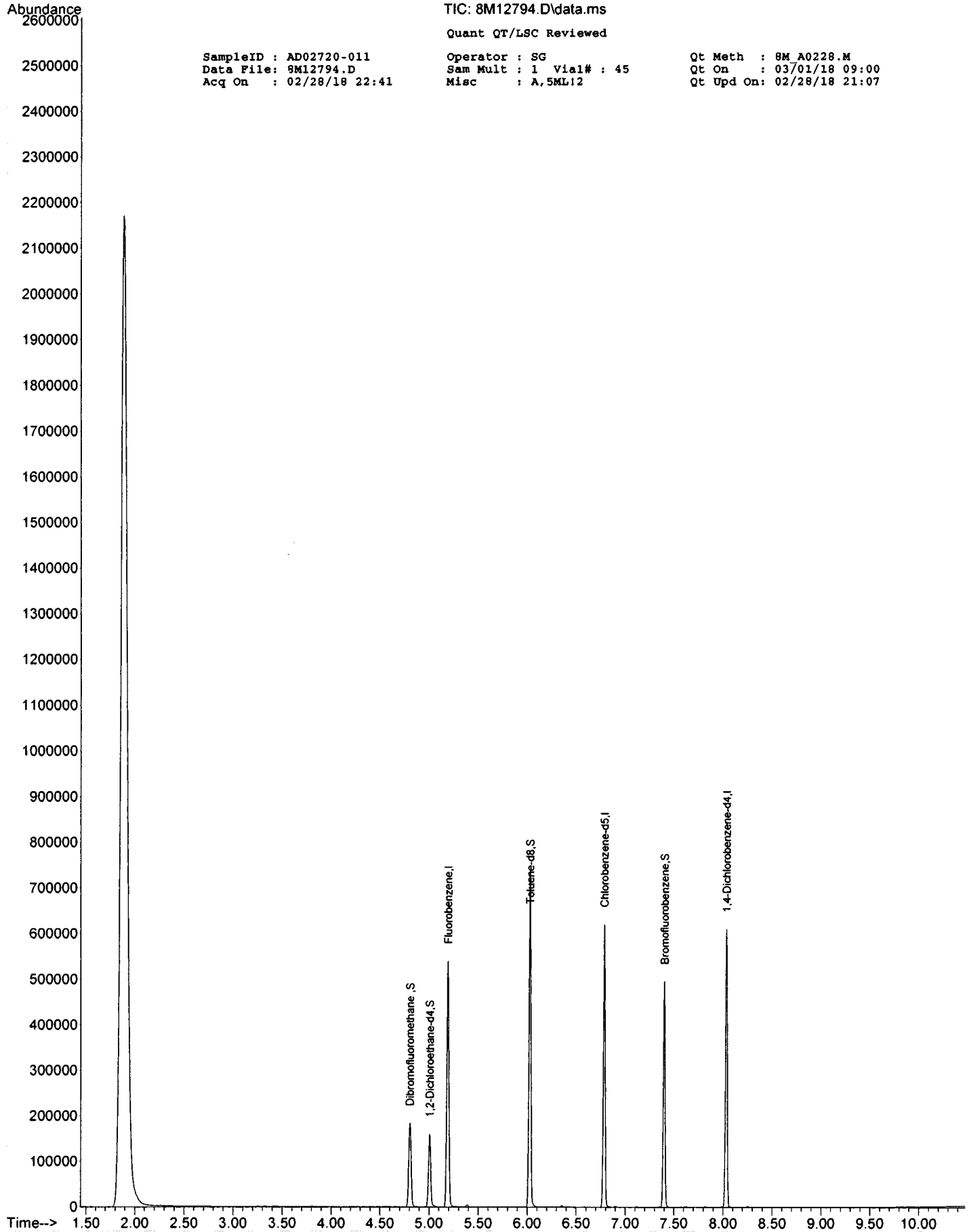
TIC: 8M12794.D\data.ms

Quant QT/LSC Reviewed

SampleID : AD02720-011
Data File: 8M12794.D
Acq On : 02/28/18 22:41

Operator : SG
Sam Mult : 1 Vial# : 45
Misc : A,5ML12

Qt Meth : 8M_A0228.M
Qt On : 03/01/18 09:00
Qt Upd On: 02/28/18 21:07



Quantitation Report (QT Reviewed)

SampleID : AD02720-011(MS) Operator : SG Qt Meth : 8M_A0228.M
Data File: 8M12796.D Sam Mult : 1 Vial# : 47 Qt On : 03/01/18 09:00
Acq On : 02/28/18 23:16 Misc : A,5ML!2 Qt Upd On: 02/28/18 21:07

Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.186	96	413110	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.784	117	311682	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.032	152	161183	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.804	111	96854	29.93	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.77%			
39) 1,2-Dichloroethane-d4	5.003	67	49920	30.54	ug/l	0.00
Spiked Amount 30.000			Recovery = 101.80%			
66) Toluene-d8	6.022	98	404129	29.48	ug/l	0.00
Spiked Amount 30.000			Recovery = 98.27%			
76) Bromofluorobenzene	7.398	174	128217	29.29	ug/l	0.00
Spiked Amount 30.000			Recovery = 97.63%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	2.039	51	40310	15.0632	ug/l	35
6) Dichlorodifluoromethane	2.026	85	35395	16.4524	ug/l	91
7) Chloromethane	2.193	50	38077	15.5062	ug/l	81
8) Bromomethane	2.553	94	29320	15.2384	ug/l	79
9) Vinyl Chloride	2.273	62	37074	16.5741	ug/l	95
10) Chloroethane	2.630	64	27945	16.7757	ug/l	95
11) Trichlorofluoromethane	2.829	101	61505	16.5502	ug/l	86
12) Ethyl ether	3.038	59	31342	15.3106	ug/l	66
13) Furan	3.077	39	47206m	15.0968	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	3.222	101	35208	17.1140	ug/l	93
15) Methylene Chloride	3.595	84	42974	15.5665	ug/l	74
16) Acrolein	3.141	56	40944	83.5879	ug/l	99
17) Acrylonitrile	3.775	53	13978	16.5881	ug/l	95
18) Iodomethane	3.366	142	34367	11.9385	ug/l	80
19) Acetone	3.254	43	44523	81.3007	ug/l	60
20) Carbon Disulfide	3.428	76	113741	16.0956	ug/l	100
21) t-Butyl Alcohol	3.038	59	31342	77.9947	ug/l	85
22) n-Hexane	4.019	57	40571m	17.1795	ug/l	
23) Di-isopropyl-ether	4.161	45	97083	15.8884	ug/l	71
24) 1,1-Dichloroethene	3.231	61	51665	16.3228	ug/l	65
25) Methyl Acetate	3.498	43	39271	15.9926	ug/l	100
26) Methyl-t-butyl ether	3.804	73	98842m	15.6192	ug/l	
27) 1,1-Dichloroethane	4.132	63	68875	16.0671	ug/l	99
28) trans-1,2-Dichloroethene	3.235	96	38977	16.3468	ug/l	79
29) Ethyl-t-butyl ether	4.411	59	103310	15.2662	ug/l	86
30) cis-1,2-Dichloroethene	4.527	61	64775	15.8912	ug/l	62
31) Bromochloromethane	4.672	49	31467	15.7173	ug/l	81
32) 2,2-Dichloropropane	4.534	77	58725	16.8149	ug/l	92
33) Ethyl acetate	4.540	43	36397m	16.0752	ug/l	
34) 1,4-Dioxane	5.566	88	15566	1210.1315	ug/l	92
35) 1,1-Dichloropropene	4.926	75	55813	15.8343	ug/l	91
36) Chloroform	4.710	83	69416	15.4055	ug/l	88
38) Cyclohexane	4.878	56	57107	16.2707	ug/l	89
40) 1,2-Dichloroethane	5.048	62	49265	16.0626	ug/l	93
41) 2-Butanone	4.524	43	13138m	10.4646	ug/l	
42) 1,1,1-Trichloroethane	4.839	97	63512	15.2150	ug/l	98
43) Carbon Tetrachloride	4.935	117	56499	16.4137	ug/l	95
44) Vinyl Acetate	4.019	43	22487	17.4441	ug/l	100
45) Bromodichloromethane	5.643	83	51667	16.0753	ug/l	94
46) Methylcyclohexane	5.501	83	67184	17.2502	ug/l	79
47) Dibromomethane	5.572	174	31647	15.9202	ug/l	93
48) 1,2-Dichloropropane	5.508	63	40829	16.3089	ug/l	92
49) Trichloroethene	5.386	130	52719	16.7376	ug/l	87
50) Benzene	5.048	78	174826	16.5550	ug/l	100
51) tert-Amyl methyl ether	5.083	73	109419	15.8326	ug/l	66
53) Iso-propylacetate	5.038	43	66794	15.1477	ug/l	76
54) Methyl methacrylate	5.530	41	34473m	14.8665	ug/l	
55) Dibromochloromethane	6.476	129	45906	15.2928	ug/l	97
57) cis-1,3-Dichloropropene	5.874	75	59720	14.5201	ug/l	91
58) trans-1,3-Dichloropropene	6.151	75	55574	14.9542	ug/l	98
59) Ethyl methacrylate	6.173	41	29172m	13.8301	ug/l	
60) 1,1,2-Trichloroethane	6.257	97	40664	15.8562	ug/l	93
61) 1,2-Dibromoethane	6.550	107	40989	15.5558	ug/l	92
62) 1,3-Dichloropropane	6.347	76	65039	15.8259	ug/l	97
63) 4-Methyl-2-Pentanone	5.935	43	30273	13.7085	ug/l	68
64) 2-Hexanone	6.363	43	23851	15.8861	ug/l	68
65) Tetrachloroethene	6.353	164	42410	16.4158	ug/l	97
67) Toluene	6.058	92	108207	14.8767	ug/l	96
68) 1,1,1,2-Tetrachloroethane	6.833	133	39030	14.9035	ug/l	67

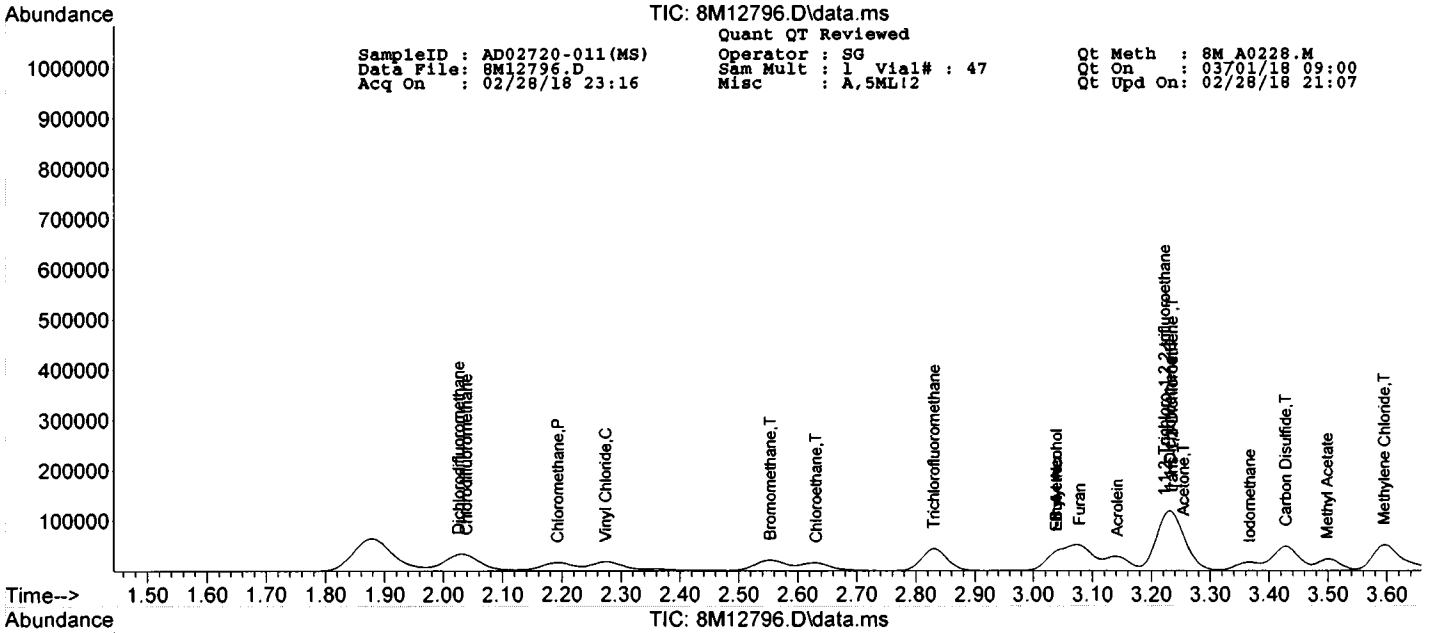
Quantitation Report (QT Reviewed)

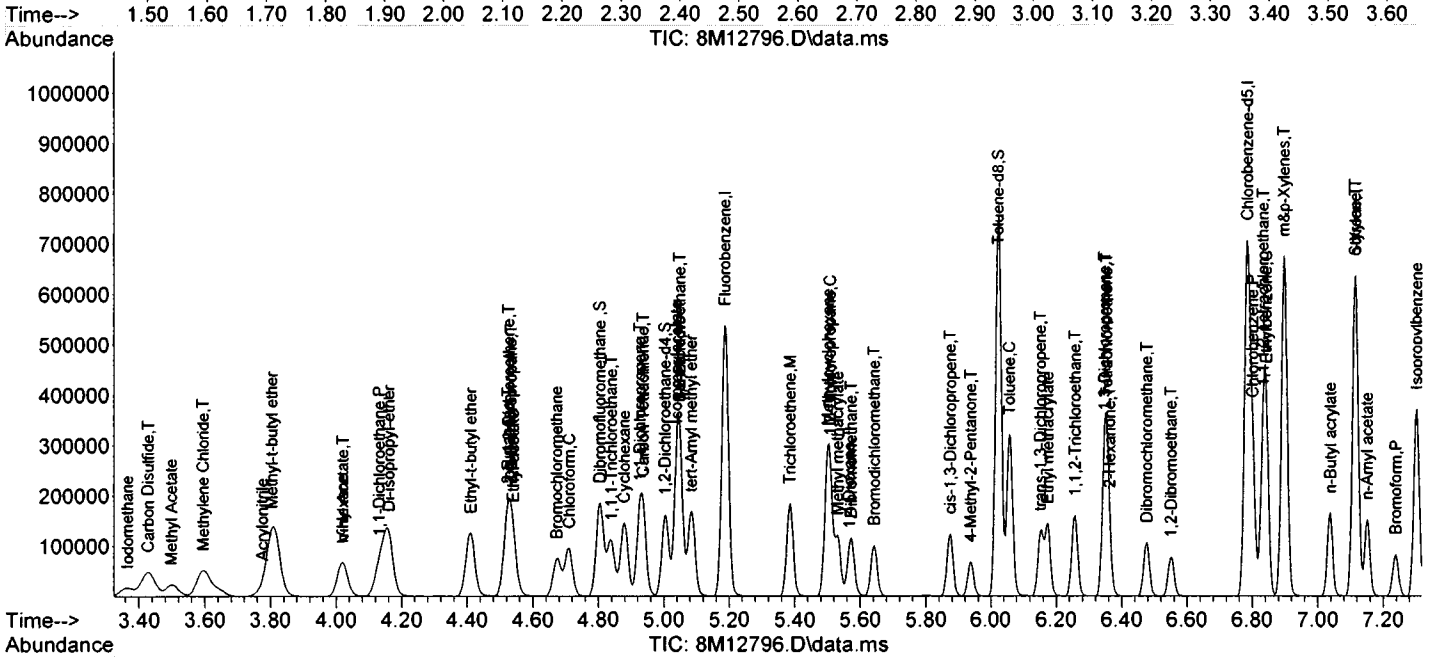
SampleID : AD02720-011(MS) Operator : SG Qt Meth : 8M_A0228.M
Data File: 8M12796.D Sam Mult : 1 Vial# : 47 Qt On : 03/01/18 09:00
Acq On : 02/28/18 23:16 Misc : A,5ML!2 Qt Upd On: 02/28/18 21:07

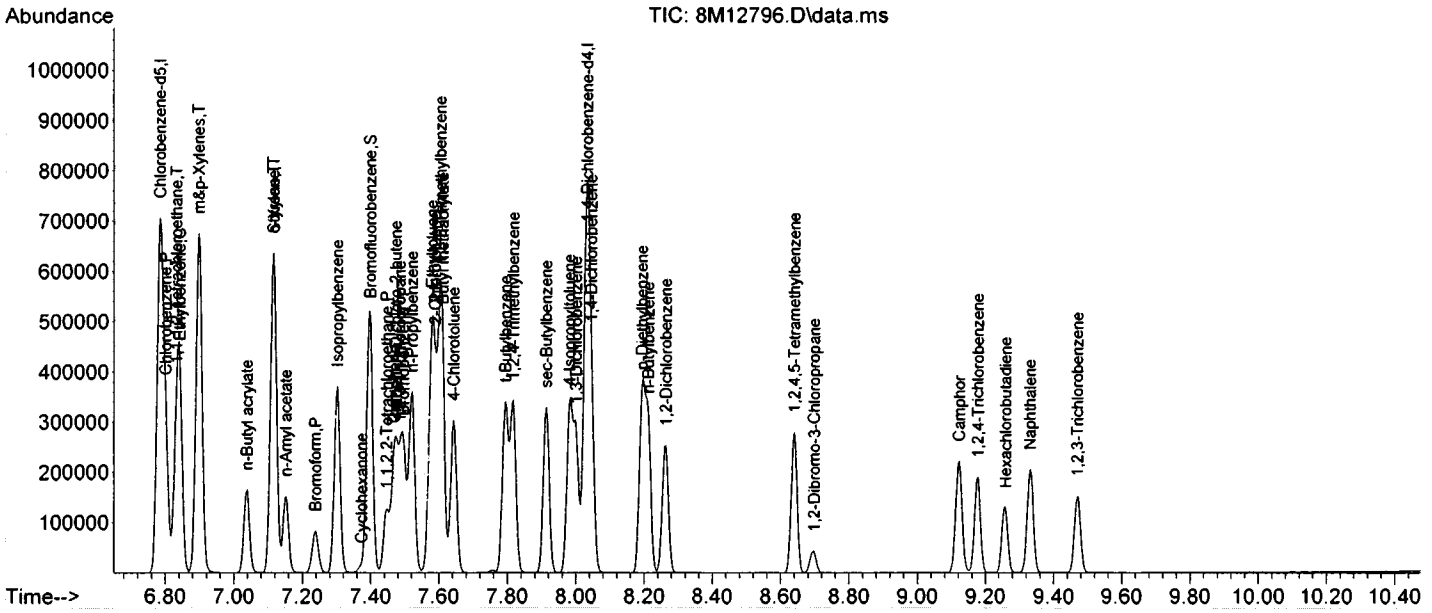
Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69)	Chlorobenzene	6.800	112	119936	15.2814	ug/l	97
71)	n-Butyl acrylate	7.038	55	75504	15.2868	ug/l	94
72)	n-Amyl acetate	7.151	43	52912m	14.3485	ug/l	
73)	Bromoform	7.238	173	29923	14.1497	ug/l	99
74)	Ethylbenzene	6.842	106	50232	14.4731	ug/l	72
75)	1,1,2,2-Tetrachloroethane	7.447	83	49152	14.4841	ug/l	92
77)	Styrene	7.115	104	130740	15.5591	ug/l	77
78)	m&p-Xylenes	6.897	106	158408	31.4263	ug/l	74
79)	o-Xylene	7.115	106	78942	15.5399	ug/l	61
80)	trans-1,4-Dichloro-2-b...	7.472	53	14895	13.3275	ug/l	26
81)	1,3-Dichlorobenzene	8.000	146	97403	15.5617	ug/l	82
82)	1,4-Dichlorobenzene	8.045	146	99267	15.3976	ug/l	91
83)	1,2-Dichlorobenzene	8.263	146	90770	15.4280	ug/l	85
84)	Isopropylbenzene	7.302	105	196424	15.3855	ug/l	88
85)	Cyclohexanone	7.373	55	4838	26.0254	ug/l	72
86)	Camphene	7.469	93	40763	10.0912	ug/l	87
87)	1,2,3-Trichloropropane	7.485	75	64099	15.3386	ug/l	91
88)	2-Chlorotoluene	7.588	91	110488	14.5142	ug/l	87
89)	p-Ethyltoluene	7.578	105	200523	15.1440	ug/l	82
90)	4-Chlorotoluene	7.643	91	117248	15.7606	ug/l	83
91)	n-Propylbenzene	7.521	91	221052	15.3980	ug/l	91
92)	Bromobenzene	7.495	77	108920	14.6260	ug/l	54
93)	1,3,5-Trimethylbenzene	7.604	105	156379	15.5367	ug/l	78
94)	Butyl methacrylate	7.611	41	41820m	14.9232	ug/l	
95)	t-Butylbenzene	7.794	119	156556	15.3038	ug/l	96
96)	1,2,4-Trimethylbenzene	7.816	105	155868	15.1283	ug/l	81
97)	sec-Butylbenzene	7.913	105	187021	15.5757	ug/l	97
98)	4-Isopropyltoluene	7.980	119	151566	15.0682	ug/l	83
99)	n-Butylbenzene	8.212	91	161834	15.3429	ug/l	90
100)	p-Diethylbenzene	8.193	119	98444	15.2411	ug/l	89
101)	1,2,4,5-Tetramethylben...	8.640	119	122872	14.6841	ug/l	98
102)	1,2-Dibromo-3-Chloropr...	8.697	157	11947	14.8836	ug/l	60
103)	Camphor	9.122	95	47838	139.8584	ug/l	85
104)	Hexachlorobutadiene	9.260	225	22243	15.7472	ug/l	97
105)	1,2,4-Trichlorobenzene	9.176	180	51491	14.7935	ug/l	96
106)	1,2,3-Trichlorobenzene	9.469	180	42896	13.9463	ug/l	97
107)	Naphthalene	9.331	128	134268	14.5408	ug/l	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 8M12796.D\data.ms
Quant QT Reviewed
SampleID : AD02720-011(MS)
Data File: 8M12796.D
Acq On : 02/28/18 23:16
Operator : SG
Sam Mult : 1 Vial# : 47
Misc : A,5ML;2
Qt Meth : 8M_A0228.M
Qt On : 03/01/18 09:00
Qt Upd On: 02/28/18 21:07
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Time-->


Abundance
TIC: 8M12796.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Acrylonitrile
Methyl-t-butyl ether
1,1-Dichloroethane,P
Di-isopropyl ether
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Dibromofluoromethane,S
1,1,1-Trichloroethane,T
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,C
trans-1,3-Dichloropropene,T
Ethyl methacrylate
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,P
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Time-->


Abundance
TIC: 8M12796.D\data.ms
Chlorobenzene-d5,I
Chlorobenzene,P
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

8022222 0200

SampleID : AD02720-011(MSD) Operator : SG Qt Meth : 8M_A0228.M
Data File: 8M12797.D Sam Mult : 1 Vial# : 48 Qt On : 03/01/18 09:00
Acq On : 02/28/18 23:34 Misc : A,5ML!2 Qt Upd On: 02/28/18 21:07

Data Path : G:\GcMsData\2018\GCMS_8\Data\02-2818\
Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	5.189	96	422834	30.00	ug/l	0.00
52) Chlorobenzene-d5	6.784	117	299507	30.00	ug/l	0.00
70) 1,4-Dichlorobenzene-d4	8.032	152	160010	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.803	111	93650	28.27	ug/l	0.00
Spiked Amount 30.000			Recovery = 94.23%			
39) 1,2-Dichloroethane-d4	5.003	67	45556	27.23	ug/l	0.00
Spiked Amount 30.000			Recovery = 90.77%			
66) Toluene-d8	6.022	98	383168	29.09	ug/l	0.00
Spiked Amount 30.000			Recovery = 96.97%			
76) Bromofluorobenzene	7.398	174	129786	29.86	ug/l	0.00
Spiked Amount 30.000			Recovery = 99.53%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	2.042	51	49410	18.0391	ug/l	33
6) Dichlorodifluoromethane	2.025	85	43848	19.9128	ug/l	88
7) Chloromethane	2.196	50	46183	18.3748	ug/l	83
8) Bromomethane	2.556	94	35475	18.0133	ug/l	83
9) Vinyl Chloride	2.276	62	44755	19.5478	ug/l	96
10) Chloroethane	2.630	64	33222	19.4849	ug/l	93
11) Trichlorofluoromethane	2.829	101	75569	19.8670	ug/l	85
12) Ethyl ether	3.038	59	38140	18.2029	ug/l	66
13) Furan	3.080	39	57882m	18.0854	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	3.225	101	43409	20.6152	ug/l	94
15) Methylene Chloride	3.598	84	52346	18.5252	ug/l	74
16) Acrolein	3.141	56	48409	96.5551	ug/l	99
17) Acrylonitrile	3.775	53	16704	19.3672	ug/l	99
18) Iodomethane	3.366	142	49236	16.7027	ug/l	80
19) Acetone	3.254	43	53211	94.9308	ug/l	58
20) Carbon Disulfide	3.427	76	138274	19.1173	ug/l	100
21) t-Butyl Alcohol	3.038	59	38140	92.7288	ug/l	80
22) n-Hexane	4.019	57	51437m	21.2798	ug/l	
23) Di-isopropyl-ether	4.160	45	115882	18.5288	ug/l	74
24) 1,1-Dichloroethene	3.231	61	62601	19.3230	ug/l	65
25) Methyl Acetate	3.501	43	47189	18.7752	ug/l	100
26) Methyl-t-butyl ether	3.803	73	119412m	18.4357	ug/l	
27) 1,1-Dichloroethane	4.135	63	82716	18.8521	ug/l	99
28) trans-1,2-Dichloroethene	3.231	96	46888	19.2124	ug/l	78
29) Ethyl-t-butyl ether	4.411	59	120463	17.3915	ug/l	86
30) cis-1,2-Dichloroethene	4.527	61	73901	17.7132	ug/l	58
31) Bromochloromethane	4.675	49	35917	17.5275	ug/l	76
32) 2,2-Dichloropropane	4.533	77	66064	18.4812	ug/l	92
33) Ethyl acetate	4.543	43	40371m	17.4204	ug/l	
34) 1,4-Dioxane	5.569	88	17372	1321.4139	ug/l	94
35) 1,1-Dichloropropene	4.929	75	66788	18.5121	ug/l	90
36) Chloroform	4.710	83	80340	17.4198	ug/l	89
38) Cyclohexane	4.877	56	69748	19.4153	ug/l	88
40) 1,2-Dichloroethane	5.048	62	52590	16.7524	ug/l	94
41) 2-Butanone	4.524	43	14382m	11.1920	ug/l	
42) 1,1,1-Trichloroethane	4.839	97	76600	17.9284	ug/l	97
43) Carbon Tetrachloride	4.935	117	65087	18.4738	ug/l	95
44) Vinyl Acetate	4.019	43	27993	21.2160	ug/l	100
45) Bromodichloromethane	5.643	83	56239	17.0954	ug/l	94
46) Methylcyclohexane	5.501	83	76972	19.3088	ug/l	78
47) Dibromomethane	5.572	174	35635	17.5141	ug/l	94
48) 1,2-Dichloropropane	5.508	63	45543	17.7735	ug/l	92
49) Trichloroethene	5.385	130	58487	18.1418	ug/l	87
50) Benzene	5.048	78	196636	18.1921	ug/l	100
51) tert-Amyl methyl ether	5.083	73	122710	17.3475	ug/l	66
53) Iso-propylacetate	5.038	43	71532	16.8817	ug/l	76
54) Methyl methacrylate	5.530	41	36521m	16.3900	ug/l	
55) Dibromochloromethane	6.475	129	53938	18.6990	ug/l	98
57) cis-1,3-Dichloropropene	5.874	75	69496	17.5839	ug/l	91
58) trans-1,3-Dichloropropene	6.151	75	65210	18.2604	ug/l	99
59) Ethyl methacrylate	6.173	41	34099m	16.8230	ug/l	
60) 1,1,2-Trichloroethane	6.257	97	47444	19.2520	ug/l	93
61) 1,2-Dibromoethane	6.549	107	45850	18.1079	ug/l	91
62) 1,3-Dichloropropane	6.347	76	71419	18.0847	ug/l	96
63) 4-Methyl-2-Pentanone	5.935	43	36988	17.4302	ug/l	73
64) 2-Hexanone	6.363	43	24814	17.1993	ug/l	65
65) Tetrachloroethene	6.353	164	47514	19.1390	ug/l	96
67) Toluene	6.061	92	129890	18.5836	ug/l	97
68) 1,1,1,2-Tetrachloroethane	6.832	133	46825	18.6068	ug/l	73

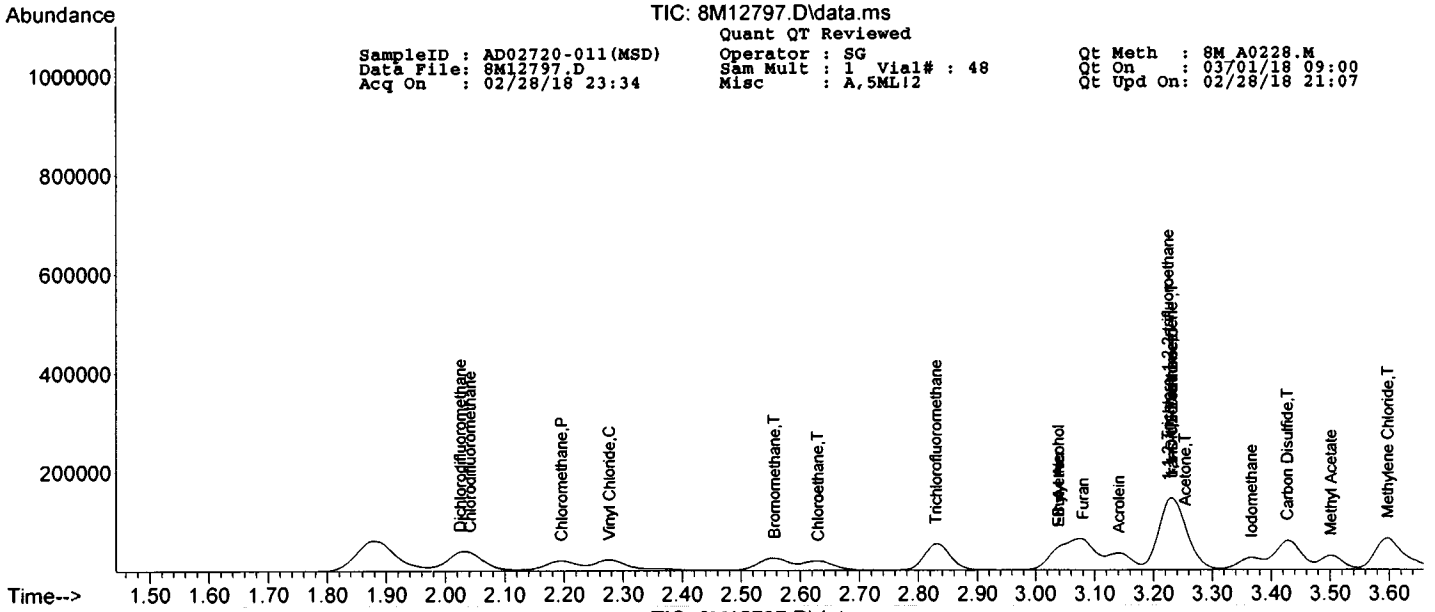
Quantitation Report (QT Reviewed)

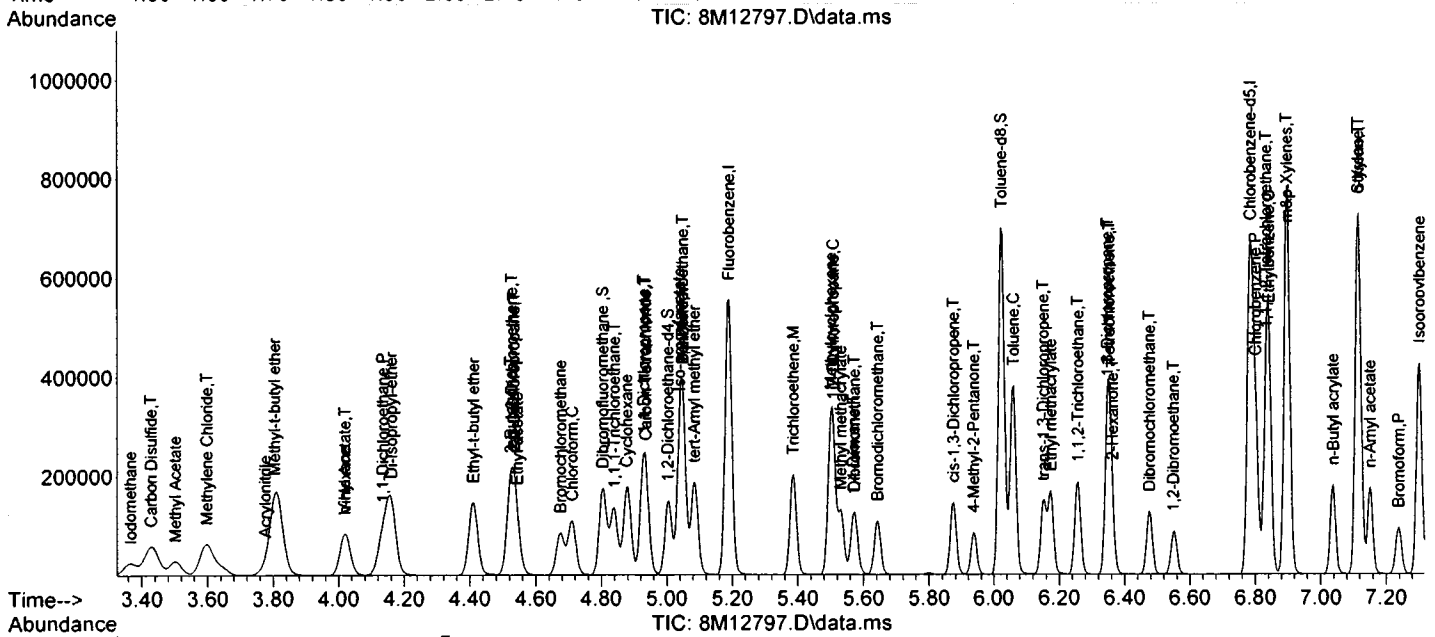
SampleID : AD02720-011(MSD) Operator : SG Qt Meth : 8M_A0228.M
Data File: 8M12797.D Sam Mult : 1 Vial# : 48 Qt On : 03/01/18 09:00
Acq On : 02/28/18 23:34 Misc : A,5ML!2 Qt Upd On: 02/28/18 21:07

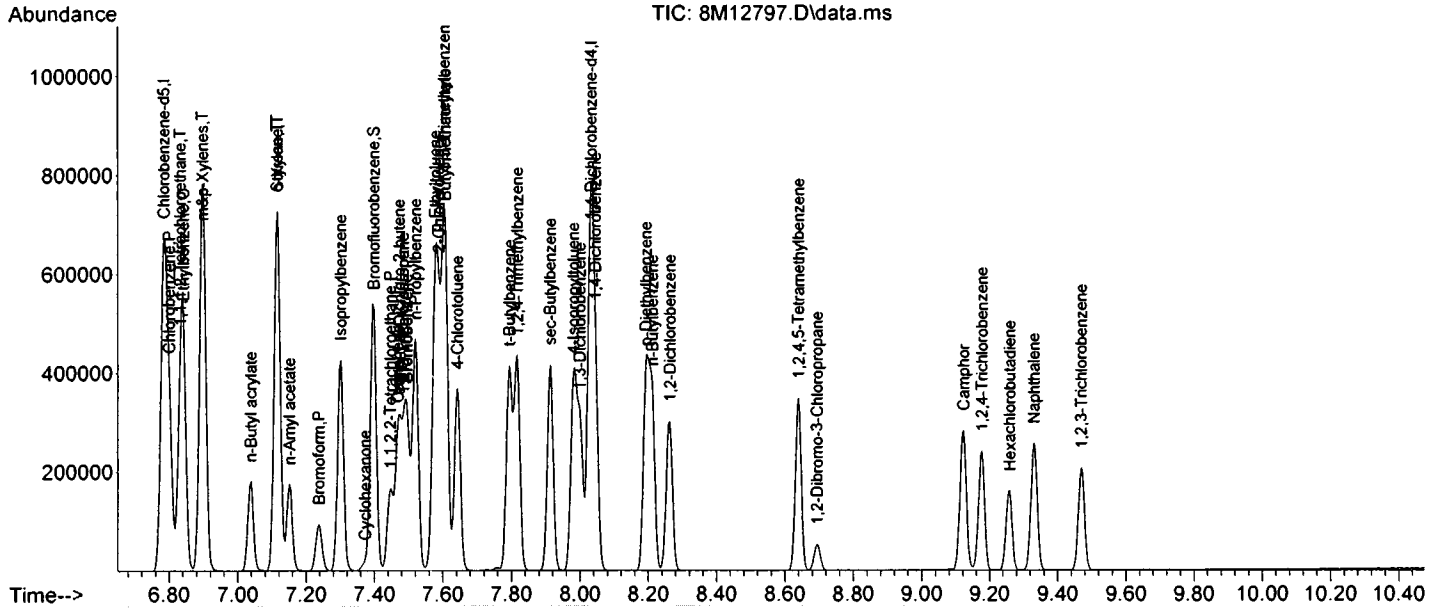
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Qt Path : G:\GcMsData\2018\GCMS_8\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69)	Chlorobenzene	6.800	112	139799	18.5362	ug/l	97
71)	n-Butyl acrylate	7.038	55	82719	16.8703	ug/l	94
72)	n-Amyl acetate	7.151	43	59890m	16.3598	ug/l	
73)	Bromoform	7.237	173	34847	16.5989	ug/l	97
74)	Ethylbenzene	6.842	106	61104	17.7346	ug/l	70
75)	1,1,2,2-Tetrachloroethane	7.446	83	63752	18.9241	ug/l	91
77)	Styrene	7.115	104	150544	18.0473	ug/l	76
78)	m&p-Xylenes	6.897	106	188221	37.6146	ug/l	73
79)	o-Xylene	7.115	106	90490	17.9438	ug/l	61
80)	trans-1,4-Dichloro-2-b...	7.472	53	17998	16.2221	ug/l	23
81)	1,3-Dichlorobenzene	7.999	146	111355	17.9211	ug/l	82
82)	1,4-Dichlorobenzene	8.044	146	118503	18.5161	ug/l	91
83)	1,2-Dichlorobenzene	8.263	146	108697	18.6104	ug/l	85
84)	Isopropylbenzene	7.302	105	230079	18.1537	ug/l	88
85)	Cyclohexanone	7.372	55	5450	29.5325	ug/l	70
86)	Camphene	7.469	93	46170	11.5136	ug/l	89
87)	1,2,3-Trichloropropane	7.485	75	78086	18.8226	ug/l	91
88)	2-Chlorotoluene	7.588	91	144000	19.0552	ug/l	88
89)	p-Ethyltoluene	7.578	105	260046	19.7833	ug/l	83
90)	4-Chlorotoluene	7.643	91	142336	19.2732	ug/l	85
91)	n-Propylbenzene	7.520	91	287783	20.1933	ug/l	92
92)	Bromobenzene	7.495	77	134803	18.2343	ug/l	54
93)	1,3,5-Trimethylbenzene	7.604	105	196229	19.6388	ug/l	78
94)	Butyl methacrylate	7.607	41	55282m	19.8716	ug/l	
95)	t-Butylbenzene	7.794	119	191427	18.8497	ug/l	96
96)	1,2,4-Trimethylbenzene	7.816	105	193902	18.9578	ug/l	82
97)	sec-Butylbenzene	7.913	105	232002	19.4635	ug/l	98
98)	4-Isopropyltoluene	7.980	119	182195	18.2461	ug/l	83
99)	n-Butylbenzene	8.212	91	189764	18.1227	ug/l	90
100)	p-Diethylbenzene	8.192	119	113494	17.7000	ug/l	89
101)	1,2,4,5-Tetramethylben...	8.639	119	152485	18.3566	ug/l	98
102)	1,2-Dibromo-3-Chloropr...	8.694	157	13823	17.3470	ug/l	63
103)	Camphor	9.122	95	60322	177.4907	ug/l	84
104)	Hexachlorobutadiene	9.260	225	27037	19.2815	ug/l	95
105)	1,2,4-Trichlorobenzene	9.176	180	65597	18.9844	ug/l	96
106)	1,2,3-Trichlorobenzene	9.469	180	56911	18.6384	ug/l	97
107)	Naphthalene	9.331	128	171096	18.6650	ug/l	85

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 8M12797.D\data.ms
Quant QT Reviewed
SampleID : AD02720-011(MSD)
Data File: 8M12797.D
Acq On : 02/28/18 23:34
Operator : SG
Sam Mult : 1 Vial# : 48
Misc : A,5ML;2
Qt Meth : 8M_A0228.M
Qt On : 03/01/18 09:00
Qt Upd On: 02/28/18 21:07
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Time-->


Abundance
TIC: 8M12797.D\data.ms
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
Acrylonitrile
Methyl-t-butyl ether
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,C
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene,C
Toluene-d8,S
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isooctyl acrylate
Time-->


Abundance
TIC: 8M12797.D\data.ms
Chlorobenzene-d5,I
Chlorobenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,P
Isopropylbenzene
Bromofluorobenzene,S
Cyclohexanone
4-Chlorotoluene
t-Butylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Form3
Recovery Data Laboratory Limits
QC Batch: MBS67258

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M125783.D	AD02764-004(MS:AD02764-003	3/1/2018 8:37:00 PM
Non Spike(If applicable): 3M125781.D	AD02764-003	3/1/2018 8:04:00 PM
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	12.3884	0	20	62	50	150
Dichlorodifluoromethane	1	10.8297	0	20	54	50	150
Chloromethane	1	12.2576	0	20	61	50	150
Bromomethane	1	13.4764	0	20	67	50	150
Vinyl Chloride	1	14.6823	0	20	73	50	150
Chloroethane	1	16.3664	0	20	82	50	150
Trichlorofluoromethane	1	16.8714	0	20	84	50	150
Ethyl ether	1	15.5539	0	20	78	50	150
Furan	1	13.752	0	20	69	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	20.3429	0	20	102	50	150
Methylene Chloride	1	15.7642	0	20	79	70	130
Acrolein	1	78.9078	0	100	79	50	150
Acrylonitrile	1	16.0787	0	20	80	50	150
Iodomethane	1	17.1406	0	20	86	50	150
Acetone	1	73.1532	0	100	73	50	150
Carbon Disulfide	1	16.6607	0	20	83	50	150
t-Butyl Alcohol	1	70.3078	0	100	70	50	150
n-Hexane	1	16.6065	0	20	83	70	130
Di-isopropyl-ether	1	15.4836	0	20	77	70	130
1,1-Dichloroethene	1	15.5571	0	20	78	70	130
Methyl Acetate	1	14.707	0	20	74	50	150
Methyl-t-butyl ether	1	15.7353	0	20	79	70	130
1,1-Dichloroethane	1	16.4166	0	20	82	70	130
trans-1,2-Dichloroethene	1	16.7686	0	20	84	70	130
Ethyl-t-butyl ether	1	15.7467	0	20	79	70	130
cis-1,2-Dichloroethene	1	17.2829	0	20	86	70	130
Bromochloromethane	1	16.8315	0	20	84	70	130
2,2-Dichloropropane	1	18.3996	0	20	92	70	130
Ethyl acetate	1	15.729	0	20	79	50	150
1,4-Dioxane	1	842.0993	0	1000	84	50	150
1,1-Dichloropropene	1	16.9968	0	20	85	70	130
Chloroform	1	16.4607	0	20	82	70	130
Cyclohexane	1	20.0555	0	20	100	70	130
1,2-Dichloroethane	1	15.9843	0	20	80	70	130
2-Butanone	1	14.7312	0	20	74	50	150
1,1,1-Trichloroethane	1	17.3948	0	20	87	70	130
Carbon Tetrachloride	1	18.0308	0	20	90	50	150
Vinyl Acetate	1	16.0707	0	20	80	50	150
Bromodichloromethane	1	16.3011	0	20	82	70	130
Methylcyclohexane	1	21.3578	0	20	107	70	130
Dibromomethane	1	16.9049	0	20	85	70	130
1,2-Dichloropropane	1	16.11	0	20	81	70	130
Trichloroethene	1	18.8163	0	20	94	70	130
Benzene	1	16.364	0	20	82	70	130
tert-Amyl methyl ether	1	16.5948	0	20	83	70	130
Iso-propylacetate	1	14.2914	0	20	71	70	130
Methyl methacrylate	1	13.6731	0	20	68*	70	130
Dibromochloromethane	1	15.1541	0	20	76	70	130
2-Chloroethylvinylether	1	0	0	20	0*	70	130
cis-1,3-Dichloropropene	1	14.2499	0	20	71	70	130
trans-1,3-Dichloropropene	1	14.576	0	20	73	70	130
Ethyl methacrylate	1	13.2263	0	20	66*	70	130
1,1,2-Trichloroethane	1	15.5704	0	20	78	70	130
1,2-Dibromoethane	1	14.5379	0	20	73	70	130
1,3-Dichloropropane	1	15.0014	0	20	75	70	130
4-Methyl-2-Pentanone	1	12.7529	0	20	64	50	150
2-Hexanone	1	12.9537	0	20	65	50	150
Tetrachloroethene	1	16.3301	0	20	82	50	150
Toluene	1	14.9984	0	20	75	70	130
1,1,1,2-Tetrachloroethane	1	16.1448	0	20	81	70	130
Chlorobenzene	1	15.9158	0	20	80	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS67258

n-Butyl acrylate	1	12.8491	0	20	64*	70	130
n-Amyl acetate	1	14.6063	0	20	73	70	130
Bromoform	1	14.5593	0	20	73	70	130
Ethylbenzene	1	17.1974	0	20	86	70	130
1,1,2,2-Tetrachloroethane	1	14.3371	0	20	72	70	130
Styrene	1	16.3368	0	20	82	70	130
m&p-Xylenes	1	31.0088	0	40	78	70	130
o-Xylene	1	15.9532	0	20	80	70	130
trans-1,4-Dichloro-2-butene	1	12.7776	0	20	64	50	150
1,3-Dichlorobenzene	1	16.5049	0	20	83	70	130
1,4-Dichlorobenzene	1	16.5225	0	20	83	70	130
1,2-Dichlorobenzene	1	16.3301	0	20	82	70	130
Isopropylbenzene	1	16.7904	0	20	84	70	130
Cyclohexanone	1	66.7646	0	100	67	50	150
Camphene	1	6.9276	0	20	35*	70	130
1,2,3-Trichloropropane	1	14.7441	0	20	74	70	130
2-Chlorotoluene	1	15.6873	0	20	78	70	130
p-Ethyltoluene	1	17.2303	0	20	86	70	130
4-Chlorotoluene	1	15.2907	0	20	76	70	130
n-Propylbenzene	1	16.6178	0	20	83	70	130
Bromobenzene	1	14.3626	0	20	72	70	130
1,3,5-Trimethylbenzene	1	18.3331	0	20	92	70	130
Butyl methacrylate	1	13.2884	0	20	66*	70	130
t-Butylbenzene	1	16.2773	0	20	81	70	130
1,2,4-Trimethylbenzene	1	16.369	0	20	82	70	130
sec-Butylbenzene	1	16.6708	0	20	83	70	130
4-Isopropyltoluene	1	16.9143	0	20	85	70	130
n-Butylbenzene	1	16.1839	0	20	81	70	130
p-Diethylbenzene	1	16.9025	0	20	85	70	130
1,2,4,5-Tetramethylbenzene	1	18.2099	0	20	91	70	130
1,2-Dibromo-3-Chloropropane	1	12.7733	0	20	64	50	150
Camphor	1	162.839	0	200	81	20	150
Hexachlorobutadiene	1	14.6582	0	20	73	50	150
1,2,4-Trichlorobenzene	1	15.7382	0	20	79	70	130
1,2,3-Trichlorobenzene	1	14.97	0	20	75	70	130
Naphthalene	1	15.2268	0	20	76	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS67258

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M125784.D	AD02764-005(MSD:AD02764-0	3/1/2018 8:55:00 PM
Non Spike(If applicable): 3M125781.D	AD02764-003	3/1/2018 8:04:00 PM
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	12.6235	0	20	63	50	150
Dichlorodifluoromethane	1	10.5459	0	20	53	50	150
Chloromethane	1	14.1723	0	20	71	50	150
Bromomethane	1	12.8649	0	20	64	50	150
Vinyl Chloride	1	14.0142	0	20	70	50	150
Chloroethane	1	18.8397	0	20	94	50	150
Trichlorofluoromethane	1	16.5824	0	20	83	50	150
Ethyl ether	1	15.2514	0	20	76	50	150
Furan	1	14.7406	0	20	74	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	22.1368	0	20	111	50	150
Methylene Chloride	1	16.0585	0	20	80	70	130
Acrolein	1	92.1443	0	100	92	50	150
Acrylonitrile	1	16.1733	0	20	81	50	150
Iodomethane	1	18.7495	0	20	94	50	150
Acetone	1	80.3671	0	100	80	50	150
Carbon Disulfide	1	16.6464	0	20	83	50	150
t-Butyl Alcohol	1	88.0764	0	100	88	50	150
n-Hexane	1	17.0824	0	20	85	70	130
Di-isopropyl-ether	1	16.6575	0	20	83	70	130
1,1-Dichloroethene	1	16.727	0	20	84	70	130
Methyl Acetate	1	15.3951	0	20	77	50	150
Methyl-t-butyl ether	1	16.408	0	20	82	70	130
1,1-Dichloroethane	1	16.8361	0	20	84	70	130
trans-1,2-Dichloroethene	1	18.6366	0	20	93	70	130
Ethyl-t-butyl ether	1	17.1627	0	20	86	70	130
cis-1,2-Dichloroethene	1	17.8688	0	20	89	70	130
Bromochloromethane	1	15.637	0	20	78	70	130
2,2-Dichloropropane	1	20.002	0	20	100	70	130
Ethyl acetate	1	16.4478	0	20	82	50	150
1,4-Dioxane	1	936.1828	0	1000	94	50	150
1,1-Dichloropropene	1	18.1574	0	20	91	70	130
Chloroform	1	17.0428	0	20	85	70	130
Cyclohexane	1	21.207	0	20	106	70	130
1,2-Dichloroethane	1	17.5147	0	20	88	70	130
2-Butanone	1	17.7143	0	20	89	50	150
1,1,1-Trichloroethane	1	17.7375	0	20	89	70	130
Carbon Tetrachloride	1	19.4161	0	20	97	50	150
Vinyl Acetate	1	16.95	0	20	85	50	150
Bromodichloromethane	1	18.2206	0	20	91	70	130
Methylcyclohexane	1	23.1285	0	20	116	70	130
Dibromomethane	1	18.8343	0	20	94	70	130
1,2-Dichloropropane	1	17.2724	0	20	86	70	130
Trichloroethene	1	19.2177	0	20	96	70	130
Benzene	1	17.5581	0	20	88	70	130
tert-Amyl methyl ether	1	17.396	0	20	87	70	130
Iso-propylacetate	1	15.4389	0	20	77	70	130
Methyl methacrylate	1	15.0515	0	20	75	70	130
Dibromochloromethane	1	16.5084	0	20	83	70	130
2-Chloroethylvinylether	1	0	0	20	0*	70	130
cis-1,3-Dichloropropene	1	15.7924	0	20	79	70	130
trans-1,3-Dichloropropene	1	16.2219	0	20	81	70	130
Ethyl methacrylate	1	16.277	0	20	81	70	130
1,1,2-Trichloroethane	1	17.3858	0	20	87	70	130
1,2-Dibromoethane	1	15.5307	0	20	78	70	130
1,3-Dichloropropane	1	16.0211	0	20	80	70	130
4-Methyl-2-Pentanone	1	14.3603	0	20	72	50	150
2-Hexanone	1	14.5873	0	20	73	50	150
Tetrachloroethene	1	18.887	0	20	94	50	150
Toluene	1	15.4525	0	20	77	70	130
1,1,1,2-Tetrachloroethane	1	17.2083	0	20	86	70	130
Chlorobenzene	1	17.4187	0	20	87	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS67258

n-Butyl acrylate	1	13.0914	0	20	65*	70	130
n-Amyl acetate	1	15.1591	0	20	76	70	130
Bromoform	1	14.5944	0	20	73	70	130
Ethylbenzene	1	16.9361	0	20	85	70	130
1,1,2,2-Tetrachloroethane	1	14.0353	0	20	70	70	130
Styrene	1	16.3768	0	20	82	70	130
m&p-Xylenes	1	32.6916	0	40	82	70	130
o-Xylene	1	17.3314	0	20	87	70	130
trans-1,4-Dichloro-2-butene	1	12.2775	0	20	61	50	150
1,3-Dichlorobenzene	1	16.1762	0	20	81	70	130
1,4-Dichlorobenzene	1	16.344	0	20	82	70	130
1,2-Dichlorobenzene	1	16.2121	0	20	81	70	130
Isopropylbenzene	1	16.6381	0	20	83	70	130
Cyclohexanone	1	70.5519	0	100	71	50	150
Camphene	1	5.8134	0	20	29*	70	130
1,2,3-Trichloropropane	1	14.7281	0	20	74	70	130
2-Chlorotoluene	1	16.7374	0	20	84	70	130
p-Ethyltoluene	1	16.0274	0	20	80	70	130
4-Chlorotoluene	1	15.7884	0	20	79	70	130
n-Propylbenzene	1	16.2159	0	20	81	70	130
Bromobenzene	1	14.706	0	20	74	70	130
1,3,5-Trimethylbenzene	1	17.0623	0	20	85	70	130
Butyl methacrylate	1	13.743	0	20	69*	70	130
t-Butylbenzene	1	16.8962	0	20	84	70	130
1,2,4-Trimethylbenzene	1	16.7767	0	20	84	70	130
sec-Butylbenzene	1	16.9838	0	20	85	70	130
4-Isopropyltoluene	1	17.8658	0	20	89	70	130
n-Butylbenzene	1	16.8634	0	20	84	70	130
p-Diethylbenzene	1	16.6738	0	20	83	70	130
1,2,4,5-Tetramethylbenzene	1	17.513	0	20	88	70	130
1,2-Dibromo-3-Chloropropane	1	12.23	0	20	61	50	150
Camphor	1	168.2989	0	200	84	20	150
Hexachlorobutadiene	1	14.6305	0	20	73	50	150
1,2,4-Trichlorobenzene	1	15.3671	0	20	77	70	130
1,2,3-Trichlorobenzene	1	16.339	0	20	82	70	130
Naphthalene	1	16.1059	0	20	81	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits

QC Batch: MBS67258

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M125784.D	AD02764-005(MSD:AD02764-0	3/1/2018 8:55:00 PM
Duplicate(If applicable):	3M125783.D	AD02764-004(MS:AD02764-003	3/1/2018 8:37:00 PM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	12.6235	12.3884	1.9	30
Dichlorodifluoromethane	1	10.5459	10.8297	2.7	30
Chloromethane	1	14.1723	12.2576	14	30
Bromomethane	1	12.8649	13.4764	4.6	30
Vinyl Chloride	1	14.0142	14.6823	4.7	40
Chloroethane	1	18.8397	16.3664	14	30
Trichlorofluoromethane	1	16.5824	16.8714	1.7	30
Ethyl ether	1	15.2514	15.5539	2	30
Furan	1	14.7406	13.752	6.9	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	22.1368	20.3429	8.4	30
Methylene Chloride	1	16.0585	15.7642	1.8	30
Acrolein	1	92.1443	78.9078	15	30
Acrylonitrile	1	16.1733	16.0787	0.59	30
Iodomethane	1	18.7495	17.1406	9	30
Acetone	1	80.3671	73.1532	9.4	30
Carbon Disulfide	1	16.6464	16.6607	0.09	30
t-Butyl Alcohol	1	88.0764	70.3078	22	30
n-Hexane	1	17.0824	16.6065	2.8	30
Di-isopropyl-ether	1	16.6575	15.4836	7.3	30
1,1-Dichloroethene	1	16.727	15.5571	7.2	40
Methyl Acetate	1	15.3951	14.707	4.6	30
Methyl-t-butyl ether	1	16.408	15.7353	4.2	30
1,1-Dichloroethane	1	16.8361	16.4166	2.5	40
trans-1,2-Dichloroethene	1	18.6366	16.7686	11	30
Ethyl-t-butyl ether	1	17.1627	15.7467	8.6	30
cis-1,2-Dichloroethene	1	17.8688	17.2829	3.3	30
Bromochloromethane	1	15.637	16.8315	7.4	30
2,2-Dichloropropane	1	20.002	18.3996	8.3	30
Ethyl acetate	1	16.4478	15.729	4.5	30
1,4-Dioxane	1	936.1828	842.0993	11	30
1,1-Dichloropropene	1	18.1574	16.9968	6.6	30
Chloroform	1	17.0428	16.4607	3.5	40
Cyclohexane	1	21.207	20.0555	5.6	30
1,2-Dichloroethane	1	17.5147	15.9843	9.1	40
2-Butanone	1	17.7143	14.7312	18	40
1,1,1-Trichloroethane	1	17.7375	17.3948	2	30
Carbon Tetrachloride	1	19.4161	18.0308	7.4	40
Vinyl Acetate	1	16.95	16.0707	5.3	30
Bromodichloromethane	1	18.2206	16.3011	11	30
Methylcyclohexane	1	23.1285	21.3578	8	30
Dibromomethane	1	18.8343	16.9049	11	30
1,2-Dichloropropane	1	17.2724	16.11	7	30
Trichloroethene	1	19.2177	18.8163	2.1	40
Benzene	1	17.5581	16.364	7	40
tert-Amyl methyl ether	1	17.396	16.5948	4.7	30
Iso-propylacetate	1	15.4389	14.2914	7.7	30
Methyl methacrylate	1	15.0515	13.6731	9.6	30
Dibromochloromethane	1	16.5084	15.1541	8.6	30
2-Chloroethylvinylether	1	0	0	NA	30
cis-1,3-Dichloropropene	1	15.7924	14.2499	10	30
trans-1,3-Dichloropropene	1	16.2219	14.576	11	30
Ethyl methacrylate	1	16.277	13.2263	21	30
1,1,2-Trichloroethane	1	17.3858	15.5704	11	30
1,2-Dibromoethane	1	15.5307	14.5379	6.6	30
1,3-Dichloropropane	1	16.0211	15.0014	6.6	30
4-Methyl-2-Pentanone	1	14.3603	12.7529	12	30
2-Hexanone	1	14.5873	12.9537	12	30
Tetrachloroethene	1	18.887	16.3301	15	40
Toluene	1	15.4525	14.9984	3	40
1,1,1,2-Tetrachloroethane	1	17.2083	16.1448	6.4	30
Chlorobenzene	1	17.4187	15.9158	9	40
n-Butyl acrylate	1	13.0914	12.8491	1.9	30
n-Amyl acetate	1	15.1591	14.6063	3.7	30

Form3
RPD Data Laboratory Limits
QC Batch: MBS67258

Bromoform	1	14.5944	14.5593	0.24	30
Ethylbenzene	1	16.9361	17.1974	1.5	30
1,1,2,2-Tetrachloroethane	1	14.0353	14.3371	2.1	30
Styrene	1	16.3768	16.3368	0.24	30
m&p-Xylenes	1	32.6916	31.0088	5.3	30
o-Xylene	1	17.3314	15.9532	8.3	30
trans-1,4-Dichloro-2-butene	1	12.2775	12.7776	4	30
1,3-Dichlorobenzene	1	16.1762	16.5049	2	30
1,4-Dichlorobenzene	1	16.344	16.5225	1.1	40
1,2-Dichlorobenzene	1	16.2121	16.3301	0.73	40
Isopropylbenzene	1	16.6381	16.7904	0.91	30
Cyclohexanone	1	70.5519	66.7646	5.5	30
Camphene	1	5.8134	6.9276	17	30
1,2,3-Trichloropropane	1	14.7281	14.7441	0.11	30
2-Chlorotoluene	1	16.7374	15.6873	6.5	30
p-Ethyltoluene	1	16.0274	17.2303	7.2	30
4-Chlorotoluene	1	15.7884	15.2907	3.2	30
n-Propylbenzene	1	16.2159	16.6178	2.4	40
Bromobenzene	1	14.706	14.3626	2.4	30
1,3,5-Trimethylbenzene	1	17.0623	18.3331	7.2	30
Butyl methacrylate	1	13.743	13.2884	3.4	30
t-Butylbenzene	1	16.8962	16.2773	3.7	30
1,2,4-Trimethylbenzene	1	16.7767	16.369	2.5	30
sec-Butylbenzene	1	16.9838	16.6708	1.9	40
4-Isopropyltoluene	1	17.8658	16.9143	5.5	30
n-Butylbenzene	1	16.8634	16.1839	4.1	30
p-Diethylbenzene	1	16.6738	16.9025	1.4	30
1,2,4,5-Tetramethylbenzene	1	17.513	18.2099	3.9	30
1,2-Dibromo-3-Chloropropane	1	12.23	12.7733	4.3	30
Camphor	1	168.2989	162.839	3.3	30
Hexachlorobutadiene	1	14.6305	14.6582	0.19	30
1,2,4-Trichlorobenzene	1	15.3671	15.7382	2.4	30
1,2,3-Trichlorobenzene	1	16.339	14.97	8.7	30
Naphthalene	1	16.1059	15.2268	5.6	30

* - Indicates outside of limits

NA - Both concentrations=0... no result can be calculated

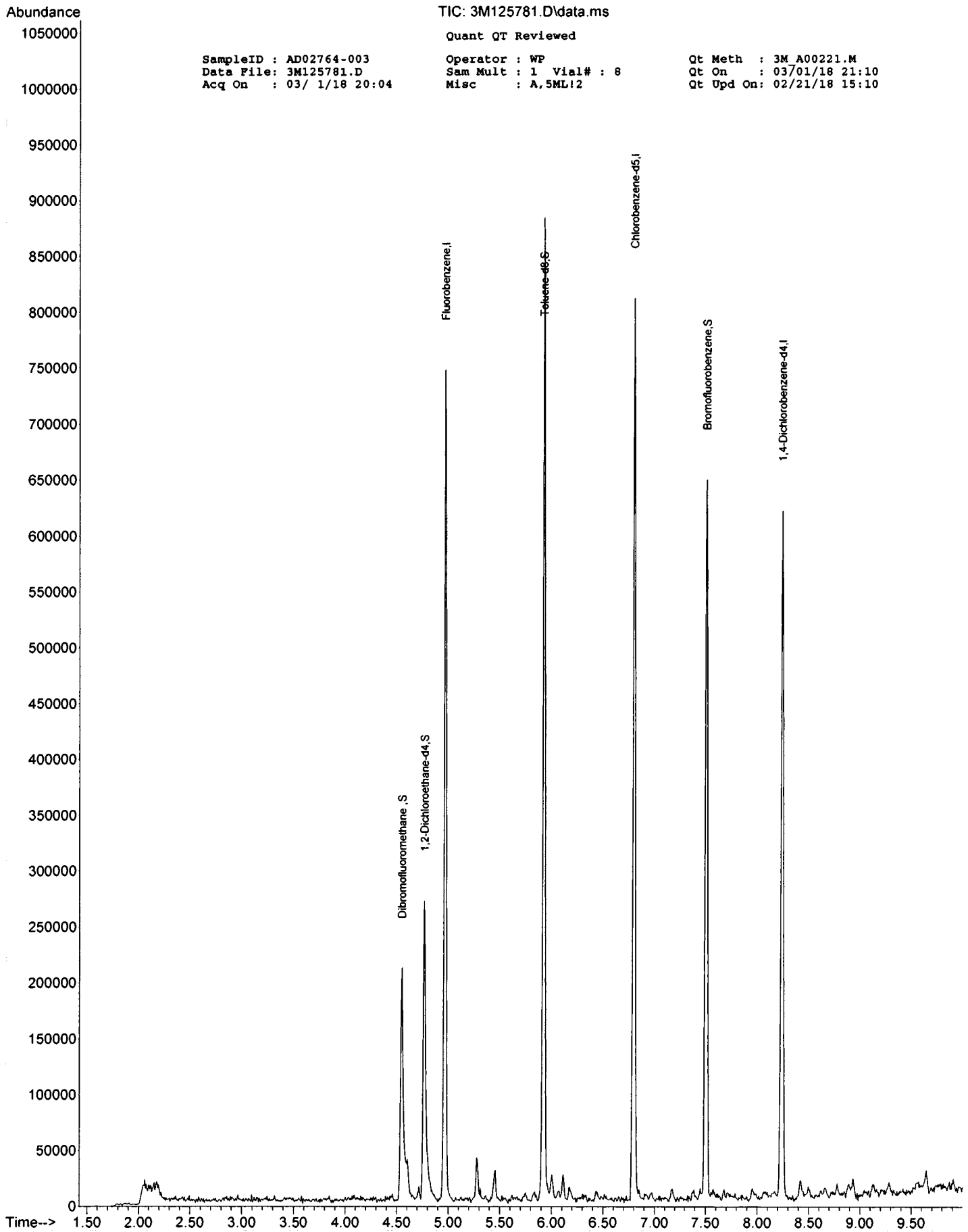
8022222 0209

SampleID : AD02764-003 Operator : WP Qt Meth : 3M_A00221.M
Data File: 3M125781.D Sam Mult : 1 Vial# : 8 Qt On : 03/01/18 21:10
Acq On : 03/ 1/18 20:04 Misc : A,5ML!2 Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-0118\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.963	96	420705	30.00	ug/l	0.02
52) Chlorobenzene-d5	6.796	117	362731	30.00	ug/l	0.02
70) 1,4-Dichlorobenzene-d4	8.237	152	155903	30.00	ug/l	0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.549	111	117547	28.64	ug/l	0.03
Spiked Amount 30.000			Recovery = 95.47%			
39) 1,2-Dichloroethane-d4	4.765	67	83556	29.06	ug/l	0.02
Spiked Amount 30.000			Recovery = 96.87%			
66) Toluene-d8	5.919	98	439403	28.33	ug/l	0.02
Spiked Amount 30.000			Recovery = 94.43%			
76) Bromofluorobenzene	7.504	174	164377	28.68	ug/l	0.03
Spiked Amount 30.000			Recovery = 95.60%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125781.D\data.ms
Quant QT Reviewed
SampleID : AD02764-003
Data File: 3M125781.D
Acq On : 03/ 1/18 20:04
Operator : WP
Sam Mult : 1 Vial# : 8
Misc : A,5ML!2
Qt Meth : 3M_A00221.M
Qt On : 03/01/18 21:10
Qt Upd On: 02/21/18 15:10
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

8022222 0211

Sample ID : AD02764-004(MS:AD02 Operator : WP Qt Meth : 3M_A00221.M
Data File: 3M125783.D Sam Mult : 1 Vial# : 10 Qt On : 03/01/18 21:11
Acq On : 03/ 1/18 20:37 Misc : A,5ML!2 Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-0118\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.969	96	458402	30.00	ug/l	0.03
52) Chlorobenzene-d5	6.801	117	391198	30.00	ug/l	0.03
70) 1,4-Dichlorobenzene-d4	8.243	152	165950	30.00	ug/l	0.03
System Monitoring Compounds						
37) Dibromofluoromethane	4.549	111	133782	29.92	ug/l	0.03
Spiked Amount 30.000			Recovery = 99.73%			
39) 1,2-Dichloroethane-d4	4.771	67	93538	29.85	ug/l	0.03
Spiked Amount 30.000			Recovery = 99.50%			
66) Toluene-d8	5.924	98	482622	28.85	ug/l	0.03
Spiked Amount 30.000			Recovery = 96.17%			
76) Bromofluorobenzene	7.510	174	187453	30.72	ug/l	0.04
Spiked Amount 30.000			Recovery = 102.40%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.626	51	80812	12.3884	ug/l	38
6) Dichlorodifluoromethane	1.609	85	10504	10.8297	ug/l	78
7) Chloromethane	1.759	50	26548	12.2576	ug/l	90
8) Bromomethane	2.140	94	24272	13.4764	ug/l	98
9) Vinyl Chloride	1.842	62	34537	14.6823	ug/l	96
10) Chloroethane	2.218	64	28396	16.3664	ug/l	97
11) Trichlorofluoromethane	2.428	101	79634	16.8714	ug/l	90
12) Ethyl ether	2.656	59	50606	15.5539	ug/l	77
13) Furan	2.698	39	108254	13.7520	ug/l	96
14) 1,1,2-Trichloro-1,2,2-...	2.849	101	37694	20.3429	ug/l	97
15) Methylene Chloride	3.251	84	60922	15.7642	ug/l	88
16) Acrolein	2.783	56	47539	78.9078	ug/l	87
17) Acrylonitrile	3.467	53	21406	16.0787	ug/l	100
18) Iodomethane	2.999	142	67949	17.1406	ug/l	98
19) Acetone	2.897	43	100422	73.1532	ug/l	91
20) Carbon Disulfide	3.059	76	130716	16.6607	ug/l	100
21) t-Butyl Alcohol	3.317	59	30109	70.3078	ug/l	91
22) n-Hexane	3.690	57	25627	16.6065	ug/l	76
23) Di-isopropyl-ether	3.846	45	191156	15.4836	ug/l	97
24) 1,1-Dichloroethene	2.861	61	81717	15.5571	ug/l	95
25) Methyl Acetate	3.161	43	78286	14.7070	ug/l	100
26) Methyl-t-butyl ether	3.467	73	176377	15.7353	ug/l	63
27) 1,1-Dichloroethane	3.828	63	105753	16.4166	ug/l	88
28) trans-1,2-Dichloroethene	3.479	96	55566	16.7686	ug/l	88
29) Ethyl-t-butyl ether	4.110	59	207872	15.7467	ug/l	96
30) cis-1,2-Dichloroethene	4.242	61	116118	17.2829	ug/l	91
31) Bromochloromethane	4.404	49	62277	16.8315	ug/l	98
32) 2,2-Dichloropropane	4.242	77	89177	18.3996	ug/l	95
33) Ethyl acetate	4.266	43	75466m	15.7290	ug/l	
34) 1,4-Dioxane	5.414	88	37611	842.0993	ug/l	85
35) 1,1-Dichloropropene	4.669	75	81302	16.9968	ug/l	93
36) Chloroform	4.446	83	118943	16.4607	ug/l	79
38) Cyclohexane	4.609	56	52900	20.0555	ug/l	98
40) 1,2-Dichloroethane	4.819	62	113582	15.9843	ug/l	96
41) 2-Butanone	4.248	43	27342m	14.7312	ug/l	
42) 1,1,1-Trichloroethane	4.573	97	105459	17.3948	ug/l	96
43) Carbon Tetrachloride	4.675	117	78060	18.0308	ug/l	97
44) Vinyl Acetate	3.846	43	133887	16.0707	ug/l	100
45) Bromodichloromethane	5.498	83	86171	16.3011	ug/l	91
46) Methylcyclohexane	5.317	83	44251	21.3578	ug/l	96
47) Dibromomethane	5.426	174	53898	16.9049	ug/l	96
48) 1,2-Dichloropropane	5.341	63	55190	16.1100	ug/l	94
49) Trichloroethene	5.197	130	72301	18.8163	ug/l	77
50) Benzene	4.807	78	213513	16.3640	ug/l	100
51) tert-Amyl methyl ether	4.843	73	194798	16.5948	ug/l	73
53) Iso-propylacetate	4.801	43	152456	14.2914	ug/l	98
54) Methyl methacrylate	5.366	41	81312m	13.6731	ug/l	
55) Dibromochloromethane	6.453	129	67070	15.1541	ug/l	96
57) cis-1,3-Dichloropropene	5.762	75	91080	14.2499	ug/l	97
58) trans-1,3-Dichloropropene	6.080	75	93427	14.5760	ug/l	96
59) Ethyl methacrylate	6.092	41	77711	13.2263	ug/l	66
60) 1,1,2-Trichloroethane	6.200	97	59997	15.5704	ug/l	93
61) 1,2-Dibromoethane	6.543	107	60893	14.5379	ug/l	88
62) 1,3-Dichloropropane	6.309	76	101266	15.0014	ug/l	91
63) 4-Methyl-2-Pentanone	5.834	43	66371	12.7529	ug/l	95
64) 2-Hexanone	6.321	43	45689	12.9537	ug/l	91
65) Tetrachloroethene	6.297	164	42195	16.3301	ug/l	95
67) Toluene	5.966	92	134780	14.9984	ug/l	95
68) 1,1,1,2-Tetrachloroethane	6.855	133	59765	16.1448	ug/l	71

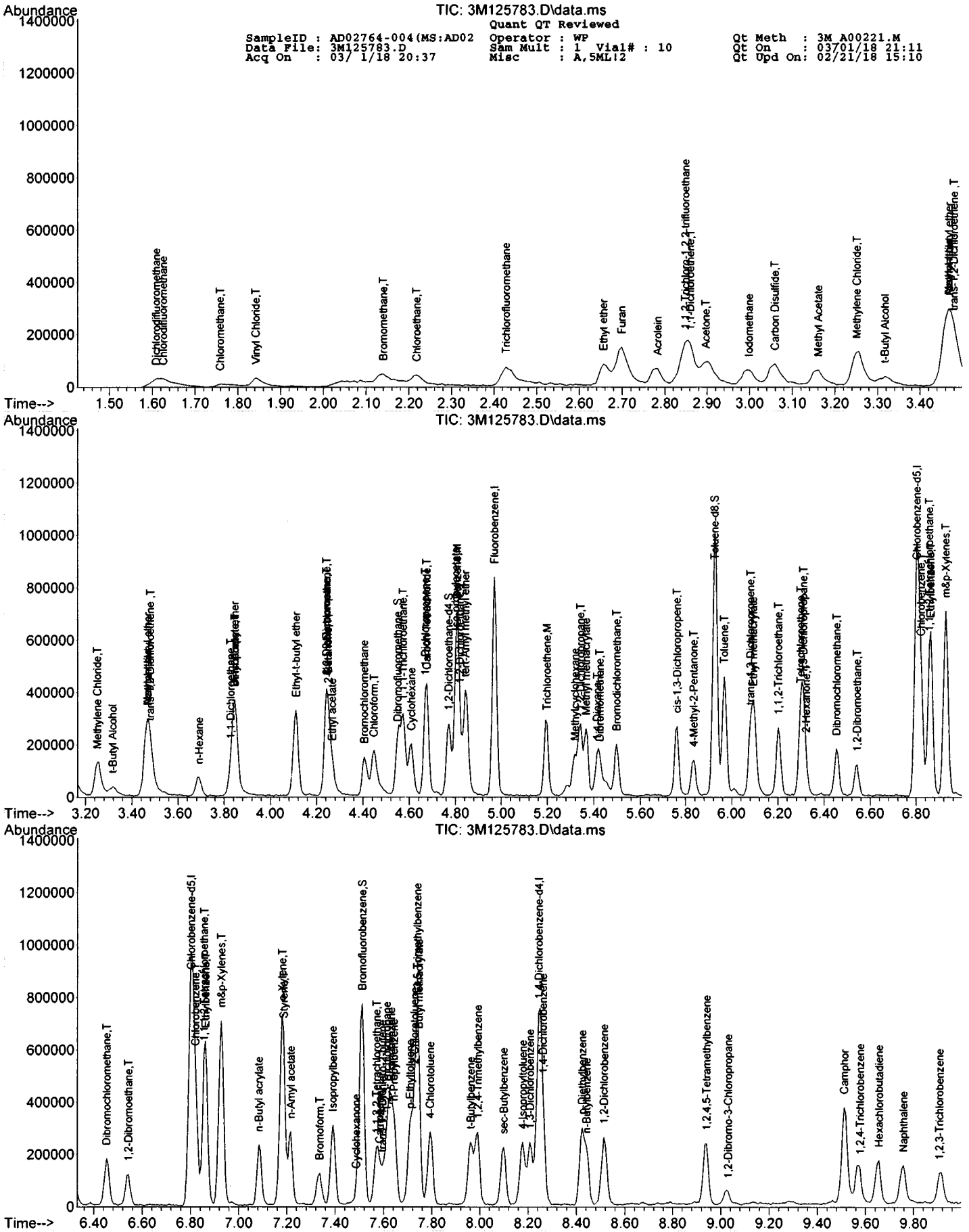
Quantitation Report (QT Reviewed)

SampleID : AD02764-004(MS:AD02 Operator : WP Qt Meth : 3M_A00221.M
Data File: 3M125783.D Sam Mult : 1 Vial# : 10 Qt On : 03/01/18 21:11
Acq On : 03/ 1/18 20:37 Misc : A,5ML!2 Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-0118\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69)	Chlorobenzene	6.819	112	154160	15.9158	ug/l	99
71)	n-Butyl acrylate	7.084	55	118085	12.8491	ug/l	93
72)	n-Amyl acetate	7.216	43	116938	14.6063	ug/l	82
73)	Bromoform	7.336	173	45938	14.5593	ug/l	88
74)	Ethylbenzene	6.861	106	49648	17.1974	ug/l	71
75)	1,1,2,2-Tetrachloroethane	7.570	83	67350	14.3371	ug/l	96
77)	Styrene	7.186	104	153857	16.3368	ug/l	95
78)	m&p-Xylenes	6.927	106	150263	31.0088	ug/l	93
79)	o-Xylene	7.180	106	78130	15.9532	ug/l	82
80)	trans-1,4-Dichloro-2-b...	7.594	53	25336	12.7776	ug/l	53
81)	1,3-Dichlorobenzene	8.207	146	90850	16.5049	ug/l	90
82)	1,4-Dichlorobenzene	8.261	146	94660	16.5225	ug/l	93
83)	1,2-Dichlorobenzene	8.513	146	94261	16.3301	ug/l	90
84)	Isopropylbenzene	7.390	105	165070	16.7904	ug/l	95
85)	Cyclohexanone	7.486	55	12459	66.7646	ug/l	95
86)	Camphene	7.582	93	21197	6.9276	ug/l	95
87)	1,2,3-Trichloropropane	7.612	75	89217	14.7441	ug/l	97
88)	2-Chlorotoluene	7.726	91	93214	15.6873	ug/l	98
89)	p-Ethyltoluene	7.708	105	172826	17.2303	ug/l	73
90)	4-Chlorotoluene	7.792	91	96040	15.2907	ug/l	88
91)	n-Propylbenzene	7.642	91	162973	16.6178	ug/l	95
92)	Bromobenzene	7.630	77	139174	14.3626	ug/l	97
93)	1,3,5-Trimethylbenzene	7.738	105	116179	18.3331	ug/l	81
94)	Butyl methacrylate	7.744	41	89705	13.2884	ug/l	95
95)	t-Butylbenzene	7.961	119	111070	16.2773	ug/l	86
96)	1,2,4-Trimethylbenzene	7.991	105	140040	16.3690	ug/l	91
97)	sec-Butylbenzene	8.099	105	126156	16.6708	ug/l	93
98)	4-Isopropyltoluene	8.177	119	113920	16.9143	ug/l	92
99)	n-Butylbenzene	8.441	91	118626	16.1839	ug/l	91
100)	p-Diethylbenzene	8.423	119	76116	16.9025	ug/l	88
101)	1,2,4,5-Tetramethylben...	8.940	119	123105	18.2099	ug/l	90
102)	1,2-Dibromo-3-Chloropr...	9.030	157	14838	12.7733	ug/l	68
103)	Camphor	9.510	95	83706	162.8390	ug/l	93
104)	Hexachlorobutadiene	9.655	225	38364	14.6582	ug/l	97
105)	1,2,4-Trichlorobenzene	9.576	180	49641	15.7382	ug/l	96
106)	1,2,3-Trichlorobenzene	9.907	180	40929	14.9700	ug/l	97
107)	Naphthalene	9.757	128	115744	15.2268	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 3M125783.D\data.ms
Quant QT Reviewed
SampleID : AD02764-004(MS:AD02
Data File: 3M125783.D
Acq On : 03/ 1/18 20:37
Operator : WP
Sam Mult : 1 Vial# : 10
Misc : A,5ML!2
Qt Meth : 3M_A00221.M
Qt On : 03701/18 21:11
Qt Upd On: 02/21/18 15:10
Abundance
Time-->

Sample ID : AD02764-005(MSD:AD0 Operator : WP Qt Meth : 3M_A00221.M
Data File: 3M125784.D Sam Mult : 1 Vial# : 11 Qt On : 03/01/18 21:11
Acq On : 03/ 1/18 20:55 Misc : A,5ML!2 Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-0118\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.964	96	418572	30.00	ug/l	0.02
52) Chlorobenzene-d5	6.797	117	352042	30.00	ug/l	0.02
70) 1,4-Dichlorobenzene-d4	8.238	152	158844	30.00	ug/l	0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.544	111	124869	30.58	ug/l	0.02
Spiked Amount 30.000			Recovery = 101.93%			
39) 1,2-Dichloroethane-d4	4.766	67	80249	28.05	ug/l	0.02
Spiked Amount 30.000			Recovery = 93.50%			
66) Toluene-d8	5.920	98	422994	28.10	ug/l	0.02
Spiked Amount 30.000			Recovery = 93.67%			
76) Bromofluorobenzene	7.499	174	169936	29.10	ug/l	0.02
Spiked Amount 30.000			Recovery = 97.00%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.609	51	75191	12.6235	ug/l	37
6) Dichlorodifluoromethane	1.592	85	9340	10.5459	ug/l	99
7) Chloromethane	1.759	50	28028	14.1723	ug/l	99
8) Bromomethane	2.135	94	21194	12.8649	ug/l	97
9) Vinyl Chloride	1.842	62	30101	14.0142	ug/l	84
10) Chloroethane	2.213	64	29847	18.8397	ug/l	94
11) Trichlorofluoromethane	2.429	101	71469	16.5824	ug/l	91
12) Ethyl ether	2.652	59	45310	15.2514	ug/l	72
13) Furan	2.694	39	105954	14.7406	ug/l	95
14) 1,1,2-Trichloro-1,2,2-...	2.838	101	37454	22.1368	ug/l	95
15) Methylene Chloride	3.246	84	56667	16.0585	ug/l	93
16) Acrolein	2.772	56	50690	92.1443	ug/l	89
17) Acrylonitrile	3.457	53	19661	16.1733	ug/l	99
18) Iodomethane	2.988	142	67869	18.7495	ug/l	96
19) Acetone	2.898	43	100739	80.3671	ug/l	99
20) Carbon Disulfide	3.048	76	119256	16.6464	ug/l	100
21) t-Butyl Alcohol	3.312	59	34441	88.0764	ug/l	70
22) n-Hexane	3.679	57	24071m	17.0824	ug/l	
23) Di-isopropyl-ether	3.841	45	187780	16.6575	ug/l	95
24) 1,1-Dichloroethene	2.850	61	80228	16.7270	ug/l	94
25) Methyl Acetate	3.150	43	74828	15.3951	ug/l	100
26) Methyl-t-butyl ether	3.457	73	167937	16.4080	ug/l	65
27) 1,1-Dichloroethane	3.823	63	99032	16.8361	ug/l	97
28) trans-1,2-Dichloroethene	3.475	96	56390	18.6366	ug/l	91
29) Ethyl-t-butyl ether	4.105	59	206878	17.1627	ug/l	95
30) cis-1,2-Dichloroethene	4.238	61	109623	17.8688	ug/l	78
31) Bromochloromethane	4.400	49	52830	15.6370	ug/l	92
32) 2,2-Dichloropropane	4.238	77	88520	20.0020	ug/l	97
33) Ethyl acetate	4.256	43	72058m	16.4478	ug/l	
34) 1,4-Dioxane	5.409	88	38180	936.1828	ug/l	75
35) 1,1-Dichloropropene	4.664	75	79307	18.1574	ug/l	94
36) Chloroform	4.442	83	112449	17.0428	ug/l	86
38) Cyclohexane	4.598	56	51077	21.2070	ug/l	96
40) 1,2-Dichloroethane	4.814	62	113643	17.5147	ug/l	91
41) 2-Butanone	4.244	43	30022m	17.7143	ug/l	
42) 1,1,1-Trichloroethane	4.568	97	98193	17.7375	ug/l	98
43) Carbon Tetrachloride	4.670	117	76754	19.4161	ug/l	99
44) Vinyl Acetate	3.841	43	128942	16.9500	ug/l	100
45) Bromodichloromethane	5.493	83	87949	18.2206	ug/l	99
46) Methylcyclohexane	5.313	83	43756	23.1285	ug/l	94
47) Dibromomethane	5.415	174	54832	18.8343	ug/l	88
48) 1,2-Dichloropropane	5.337	63	54031	17.2724	ug/l	92
49) Trichloroethene	5.187	130	67427	19.2177	ug/l	81
50) Benzene	4.802	78	209188	17.5581	ug/l	100
51) tert-Amyl methyl ether	4.838	73	186459	17.3960	ug/l	74
53) Iso-propylacetate	4.796	43	148212	15.4389	ug/l	98
54) Methyl methacrylate	5.361	41	80550m	15.0515	ug/l	
55) Dibromochloromethane	6.448	129	65751	16.5084	ug/l	94
57) cis-1,3-Dichloropropene	5.751	75	90836	15.7924	ug/l	95
58) trans-1,3-Dichloropropene	6.076	75	93569	16.2219	ug/l	97
59) Ethyl methacrylate	6.088	41	86063	16.2770	ug/l	78
60) 1,1,2-Trichloroethane	6.196	97	60287	17.3858	ug/l	92
61) 1,2-Dibromoethane	6.532	107	58540	15.5307	ug/l	97
62) 1,3-Dichloropropane	6.298	76	97324	16.0211	ug/l	96
63) 4-Methyl-2-Pentanone	5.829	43	67256	14.3603	ug/l	96
64) 2-Hexanone	6.310	43	46301	14.5873	ug/l	90
65) Tetrachloroethene	6.292	164	43917	18.8870	ug/l	94
67) Toluene	5.962	92	124962	15.4525	ug/l	88
68) 1,1,1,2-Tetrachloroethane	6.851	133	57326	17.2083	ug/l	81

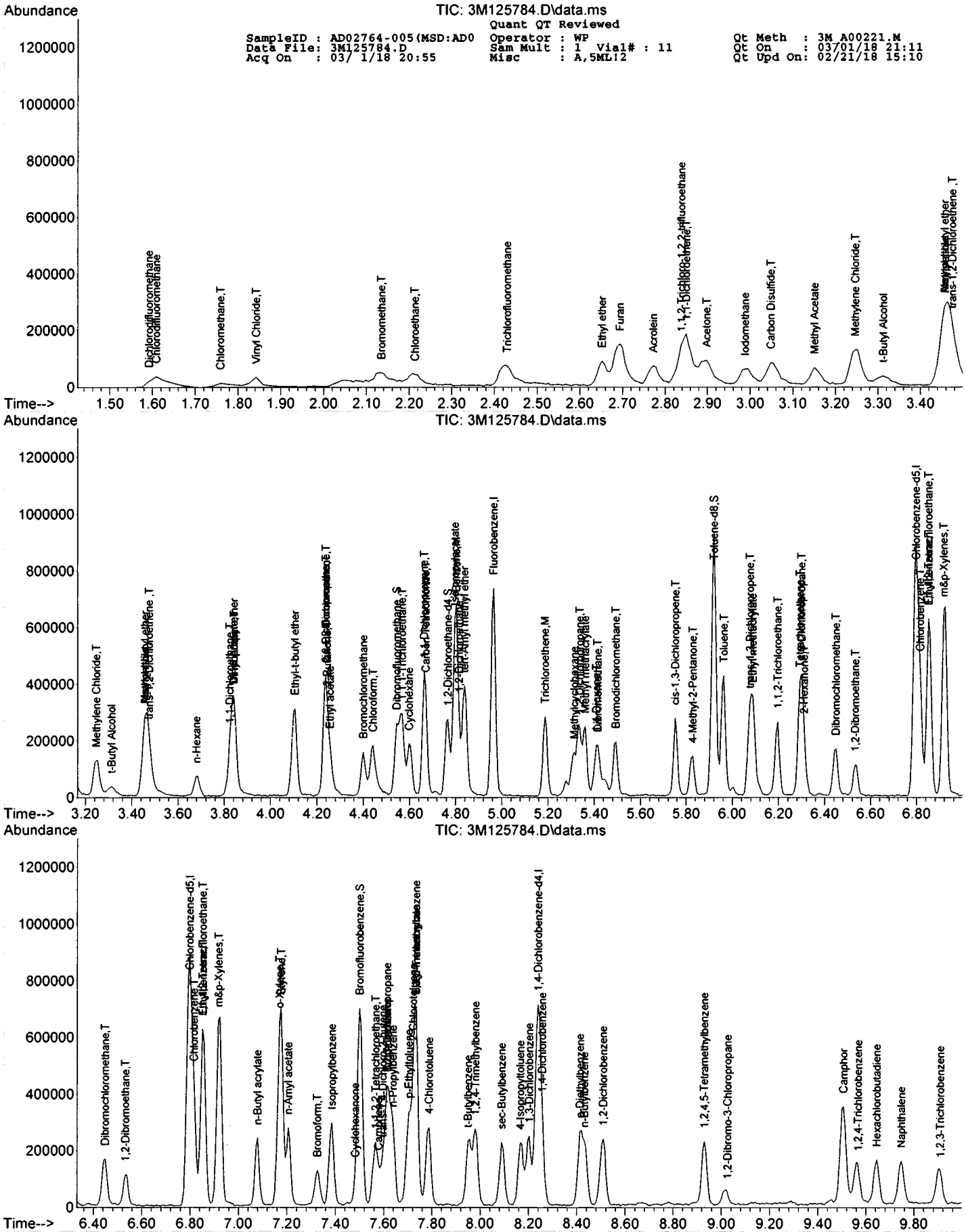
Quantitation Report (QT Reviewed)

SampleID : AD02764-005(MSD:AD0 Operator : WP Qt Meth : 3M_A00221.M
Data File: 3M125784.D Sam Mult : 1 Vial# : 11 Qt On : 03/01/18 21:11
Acq On : 03/ 1/18 20:55 Misc : A,5ML!2 Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-0118\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69)	Chlorobenzene	6.815	112	151830	17.4187	ug/l	98
71)	n-Butyl acrylate	7.079	55	115160	13.0914	ug/l	97
72)	n-Amyl acetate	7.205	43	116167	15.1591	ug/l	86
73)	Bromoform	7.325	173	44077	14.5944	ug/l	79
74)	Ethylbenzene	6.851	106	46800	16.9361	ug/l	65
75)	1,1,2,2-Tetrachloroethane	7.565	83	63109	14.0353	ug/l	97
77)	Styrene	7.175	104	147629	16.3768	ug/l	98
78)	m&p-Xylenes	6.917	106	151634	32.6916	ug/l	84
79)	o-Xylene	7.169	106	81245	17.3314	ug/l	62
80)	trans-1,4-Dichloro-2-b...	7.595	53	23302	12.2775	ug/l	55
81)	1,3-Dichlorobenzene	8.202	146	85228	16.1762	ug/l	91
82)	1,4-Dichlorobenzene	8.256	146	89628	16.3440	ug/l	96
83)	1,2-Dichlorobenzene	8.509	146	89573	16.2121	ug/l	90
84)	Isopropylbenzene	7.385	105	156569	16.6381	ug/l	94
85)	Cyclohexanone	7.481	55	12602	70.5519	ug/l	88
86)	Camphene	7.577	93	17026	5.8134	ug/l	99
87)	1,2,3-Trichloropropane	7.613	75	85304	14.7281	ug/l	96
88)	2-Chlorotoluene	7.722	91	95195	16.7374	ug/l	94
89)	p-Ethyltoluene	7.704	105	153877	16.0274	ug/l	77
90)	4-Chlorotoluene	7.788	91	94920	15.7884	ug/l	93
91)	n-Propylbenzene	7.638	91	152222	16.2159	ug/l	94
92)	Bromobenzene	7.613	77	136400	14.7060	ug/l	97
93)	1,3,5-Trimethylbenzene	7.734	105	103496	17.0623	ug/l	81
94)	Butyl methacrylate	7.734	41	88801	13.7430	ug/l	91
95)	t-Butylbenzene	7.950	119	110356	16.8962	ug/l	86
96)	1,2,4-Trimethylbenzene	7.980	105	137382	16.7767	ug/l	91
97)	sec-Butylbenzene	8.088	105	123021	16.9838	ug/l	92
98)	4-Isopropyltoluene	8.166	119	115176	17.8658	ug/l	94
99)	n-Butylbenzene	8.430	91	118314	16.8634	ug/l	87
100)	p-Diethylbenzene	8.412	119	71871	16.6738	ug/l	94
101)	1,2,4,5-Tetramethylben...	8.929	119	113324	17.5130	ug/l	93
102)	1,2-Dibromo-3-Chloropr...	9.025	157	13599	12.2300	ug/l	77
103)	Camphor	9.506	95	82796	168.2989	ug/l	94
104)	Hexachlorobutadiene	9.644	225	36652	14.6305	ug/l	95
105)	1,2,4-Trichlorobenzene	9.566	180	46403	15.3671	ug/l	97
106)	1,2,3-Trichlorobenzene	9.908	180	42759	16.3390	ug/l	94
107)	Naphthalene	9.746	128	117184	16.1059	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125784.D\data.ms
Quant QT Reviewed
SampleID : AD02764-005(MSD:AD0
Data File: 3M125784.D
Acq On : 03/ 1/18 20:55
Operator : WP
Sam Mult : 1 Vial# : 11
Misc : A,5ML;2
Qt Meth : 3M_A00221.M
Qt On : 03/01/18 21:11
Qt Upd On: 02/21/18 15:10
Time-->

GC/MS Volatile Data
Logbook Data

Hampton-Clarke, Inc.

Volatile Sample Batching – GC/MS 3

2.26.18	2.27.18	2.28.18	2.28.18
Batch #: 67212	Batch #: 67214	Batch #: 67234	Batch #: 67238
MATRIX: AQ6IB	MATRIX: MeOH	MATRIX: AQ6IB	MATRIX: AQ6IB
MBS: 3m125543	MBS: 3m125579	MBS: 3m125674	MBS: 3m125700.
MS: AD02643.w4(G	MS: AD02699.w1	MS: AD02702.w1(G	MS: AD02791.w1
MSD: .w4(	MSD: .w1	MSD: .w1(G	MSD: .w1
1. AD02760.w1(G)	1. AD02761.w1	1. AD02743.w7	1. AD02743.w1
2.	2. .w2	2. .w8	2. .w2
3.	3. AD02760.w1	3. AD02658.w2	3. .w3
4.	4.	4. .w4	4. .w4
5.	5.	5. .w6	5. .w5
6.	6.	6. .w8	6. .w6
7.	7.	7. .w10	7. .w9
8.	8.	8. AD02702.w1(G	8. AD02688.w1
9.	9.	9. AD02763.w1(G	9. .w2
10.	10.	10. AD02761.w1(G)	10. .w3
11.	11.	11. .w2(G)	11. .w4
12.	12.	12. AD02646.w5	12. .w5
13.	13.	13. .w7	13. .w6
14.	14.	14. .w8	14. .w8
15.	15.	15. AD02669.w3	15. AD02812.w1
16.	16.	16. .w4	16. AD02712.w1
17.	17.	17. .w5	17. AD02671.w2
18.	18.	18. .w6	18. .w3
19.	19.	19. .w8	19.
20.	20.	20. .w11	20.

2.28.18	3.1.18	3.1.18	3.1.18 CD
Batch #: 67239	Batch #: 67252	Batch #: 67253	Batch #: 67258
MATRIX: AQ6IB	MATRIX: AQ6IB	MATRIX: MeOH	MATRIX: AQ6IB
MBS: 3m125733	MBS: 3m125773	MBS: 3m125774	MBS: 3m125782
MS: AD02668.w2	MS: AD02691.w1	MS: AD02720.w7	MS: AD02764.w3
MSD: .w2	MSD: .w1	MSD: .w7	MS/MSD: .w2
1. AD02668.w2	1. ~~AD02649.w1~~ RW	1. AD02807.w1	1. AD02813.w1
2. .w4	2. AD02691.w1	2. AD02649.w1	2. AD02764.w2
3. .w6	3. .w2	3.	3. .w4
4. AD02791.w1	4. .w3	4.	4. .w5
5. .w2	5. AD02787.w1	5.	5. AD02792.w1
6. .w3	6. AD02718.w1	6.	6. .w2
7. .w4	7. AD02833.w1	7.	7. .w3
8.	8. AD02780.w2	8.	8. AD02775.w2
9.	9. .w4	9.	9. .w3
10.	10. .w5	10.	10. AD02780.w7
11.	11. AD02793.w7	11.	11. .w8
12.	12.	12.	12. .w9
13.	13.	13.	13.
14.	14.	14.	14.
15.	15.	15.	15.
16.	16.	16.	16.
17.	17.	17.	17.
18.	18.	18.	18.
19.	19.	19.	19.
20.	20.	20.	20.

Hampton-Clarke, Inc.

Volatile Sample Batching – GC/MS 8

2.27.18	2.27.18	2.28.18	2.28.18
Batch #: 67220	Batch #: 67221	Batch #: 67233	Batch #: 67210
MATRIX: Soil	MATRIX: Soil	MATRIX: Soil	MATRIX: AQ 618
MBS: Bm12714	MBS: Bm12742	MBS: Bm12762	MBS: Bm12791
MS: AD02774.011	MS: AD02674.004	MS: AD02674.006	MS: AD02720.011
MSD: -011	MSD: -004	MSD: -006	MSD: -011
1. AD02711.001	1. AD02767.001	1. AD02750.003	1. AD02720.009
2. -003	2. -003	2. -004	2. -010
3. AD02716.005	3.	3. AD02782.001	3. -011
4. -008	4.	4.	4. -012
5. -009	5.	5.	5. AD02709.001
6. -011	6.	6.	6. -002
7. AD02783.001	7.	7.	7. -003
8. -002	8.	8.	8. AD02771.001
9. -004	9.	9.	9. -002
10. AD02744.001	10.	10.	10. AD02764.001
11. -002	11.	11.	11. -002
12. AD02724.004	12.	12.	12. -007
13. -005	13.	13.	13. -008
14. -006	14.	14.	14. -006
15. AD02714.011	15.	15.	15. AD02780.001
16. AD02772.002	16.	16.	16. AD02815.001
17. -004	17.	17.	17. -002
18. -005	18.	18.	18. -007
19. AD02772.007	19.	19.	19.
20.	20.	20.	20.

3.1.18	3.1.18	3.1.18 CD	3.5.18
Batch #: 67249	Batch #: 67256	Batch #: 67269	Batch #: 67290
MATRIX: MeOH	MATRIX: AQ618	MATRIX: AQ624	MATRIX: AQ618
MBS: Bm12851	MBS: Bm12870	MBS: Bm12923	MBS: Bm12938
MS: AD02810.001	MS: AD02793.002	MS: AD02794.009	MS: AD02863.002(LT)
MSD: -001	MSD: -002	MSD: -009	MS/MSD: -002(LT)
1. AD02778.011	1. AD02711.001	1. AD02767.002	1. AD02793.012
2. AD02778.001	2. AD02671.001	2. -004	2. -013
3. -005	3. -004	3. AD02829.001	3. -014
4.	4. -005	4. -007	4. -015
5.	5. AD02668.001	5. -008	5. -016
6.	6. -008	6. -009	6. -019
7.	7. -005	7. AD02773.001	7. AD02794.001
8.	8. -007	8. AD02797.001	8. -002
9.	9. AD02821.015	9. -002	9. -003
10.	10. -016	10. AD02745.001	10. -004
11.	11. AD02793.001	11. -002	11. -005
12.	12. -002	12. AD02766.001	12. -006
13.	13. -003	13. AD02781.001	13. -007
14.	14. -004	14. -002	14. -008
15.	15. -005	15. AD02794.009	15. AD
16.	16. -006	16. -010	16.
17.	17. -008	17. -011	17.
18.	18. -009	18. -012	18.
19.	19. -010	19. -013	19.
20.	20. -011	20. -014	20.

RUN LOG

Instrument: GCMS 3 Year:2018
Analyst: SG

1-1-3M125263

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3M125263.	BFB TUNE		V-267203,V-267159,V-271221	WP 02/22/18						02/21 07:06
3M125265.	BLK	IsCnAnc	-	WP 02/22/18		Aqueous	1	1	624\826	02/21 07:24
3M125267.	CAL @ 500 PPB		B-24589	WP 02/22/18		Aqueous	1	1	624\826	02/21 07:58
3M125269.	CAL @ 250 PPB		B-24589	WP 02/22/18		Aqueous	1	1	624\826	02/21 08:31
3M125271.	CAL @ 100 PPB		B-24589	WP 02/22/18		Aqueous	1	1	624\826	02/21 09:05
3M125273.	CAL @ 50 PPB		B-24589	WP 02/22/18		Aqueous	1	1	624\826	02/21 09:38
3M125275.	CAL @ 20 PPB		B-24589	WP 02/22/18		Aqueous	1	1	624\826	02/21 10:12
3M125281.	CAL @ 0.5 PPB		B-24589	WP 02/22/18		Aqueous	1	1	624\826	02/21 11:52
3M125282.	CAL @ 1 PPB		B-24589	WP 02/22/18		Aqueous	1	1	624\826	02/21 12:09
3M125283.	CAL @ 5 PPB		B-24589	WP 02/22/18		Aqueous	1	1	624\826	02/21 12:25
3M125284.	CAL @ 10 PPB		B-24589	WP 02/22/18		Aqueous	1	1	624\826	02/21 12:42
3M125287.	ICV		V-274148	WP 02/22/18		Aqueous	1	1	624\826	02/21 13:32
3M125289.	DAILY BLANK		OK	WP 02/22/18		Methano	1	1	8260C	02/21 14:06
3M125290.	DAILY BLANK		OK	WP 02/22/18		Aqueous	1	1	624\826	02/21 14:22
3M125291.	AD02645-002		OK	WP 02/22/18	VO15-8260	Methano	1	1	8260C	02/21 14:39
3M125292.	AD02650-001		OK	WP 02/22/18	VO-8260	Methano	1	1	8260C	02/21 14:56
3M125293.	MBS66857		OK MBS66857	WP 02/22/18		Methano	1	1	8260C	02/21 15:12
3M125294.	MBS66858		OK MBS66858	WP 02/22/18		Aqueous	1	1	624\826	02/21 15:29
3M125295.	AD02672-005(MS)		OK MBS66857	WP 02/22/18	ERROR	Methano	1	1	8260C	02/21 15:46
3M125296.	AD02672-005(MSD)		OK MBS66857	WP 02/22/18	ERROR	Methano	1	1	8260C	02/21 16:02

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 . not checked
B6m	Blank 600 series missing	Etn	Tdn/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for eoh
B8m	Blank 8000 series missing	Eto	Tdn Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)



RUN LOG

Instrument: GCMS_8 Year: 2018
Analyst: WP

8022222.0221

1-1-8M12770

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
8M12770.D	BFB TUNE		V-267203,V-267159,V-274482	SG 03/01/18						02/28 15:43
8M12772.D	CAL @ 0.5 PPB		B-24618	SG 03/01/18		Aqueous	1	1	624\826	02/28 16:15
8M12773.D	CAL @ 1 PPB		B-24618	SG 03/01/18		Aqueous	1	1	624\826	02/28 16:33
8M12774.D	CAL @ 5 PPB		B-24618	SG 03/01/18		Aqueous	1	1	624\826	02/28 16:51
8M12775.D	CAL @ 10 PPB		B-24618	SG 03/01/18		Aqueous	1	1	624\826	02/28 17:09
8M12776.D	CAL @ 20 PPB		B-24618	SG 03/01/18		Aqueous	1	1	624\826	02/28 17:26
8M12777.D	CAL @ 500 PPB		B-24618	SG 03/01/18		Aqueous	1	1	624\826	02/28 17:44
8M12779.D	CAL @ 250 PPB		B-24618	SG 03/01/18		Aqueous	1	1	624\826	02/28 18:20
8M12781.D	CAL @ 100 PPB		B-24618	SG 03/01/18		Aqueous	1	1	624\826	02/28 18:56
8M12783.D	CAL @ 50 PPB		B-24618	SG 03/01/18		Aqueous	1	1	624\826	02/28 19:31
8M12785.D	STD					Aqueous	1	1	624\826	02/28 20:07
8M12787.D	ICV	Ivo	V-274501	SG 03/01/18		Aqueous	1	1	624\826	02/28 20:36
8M12790.D	DAILY BLANK		OK	SG 03/01/18		Aqueous	1	1	624\826	02/28 21:29
8M12791.D	MBS67240		OK MBS67240	SG 03/01/18		Aqueous	1	1	624\826	02/28 21:47
8M12792.D	AD02720-009		OK	SG 03/01/18	VO15-8260	Aqueous	1	1	8260C	02/28 22:05
8M12793.D	AD02720-010		OK	SG 03/01/18	VO15-8260	Aqueous	1	1	8260C	02/28 22:23
8M12794.D	AD02720-011		OK MBS67240	SG 03/01/18	VO15-8260	Aqueous	1	1	624\826	02/28 22:41
8M12795.D	AD02720-012		OK	SG 03/01/18	VO15-8260	Aqueous	1	1	8260C	02/28 22:58
8M12796.D	AD02720-011(MS)	M16M18	OK MBS67240	SG 03/01/18	VO15-8260	Aqueous	1	1	624\826	02/28 23:16
8M12797.D	AD02720-011(MSD)	R16R18M16M18	OK MBS67240	SG 03/01/18	VO15-8260	Aqueous	1	1	624\826	02/28 23:34
8M12798.D	AD02832-001		OK	SG 03/01/18	VO15-8260	Aqueous	1	1	8260C	02/28 23:52
8M12799.D	AD02832-002		OK	SG 03/01/18	VO15-8260	Aqueous	1	1	8260C	03/01 00:10
8M12800.D	AD02709-002		OK	SG 03/01/18	VO15-8260	Aqueous	1	1	8260C	03/01 00:28
8M12801.D	AD02709-003		OK	SG 03/01/18	VO15-8260	Aqueous	1	1	8260C	03/01 00:45
8M12802.D	AD02764-007		OK	SG 03/01/18	VO-8260	Aqueous	1	1	8260C	03/01 01:03
8M12803.D	AD02764-008		OK	SG 03/01/18	VO-8260	Aqueous	1	1	8260C	03/01 01:21
8M12804.D	AD02771-001		OK	SG 03/01/18	VO-8260	Aqueous	1	1	8260C	03/01 01:39
8M12805.D	AD02771-002		OK	SG 03/01/18	VO-8260	Aqueous	1	1	8260C	03/01 01:57
8M12806.D	AD02709-001		OK	SG 03/01/18	VO15-8260	Aqueous	1	1	8260C	03/01 02:14
8M12807.D	AD02764-001		OK	SG 03/01/18	VO-8260	Aqueous	1	1	8260C	03/01 02:32
8M12808.D	AD02764-002		OK	SG 03/01/18	VO-8260	Aqueous	1	1	8260C	03/01 02:50
8M12809.D	AD02764-006		OK	SG 03/01/18	VO-8260	Aqueous	1	1	8260C	03/01 03:08
8M12810.D	AD02780-001		OK	SG 03/01/18	VO15-8260	Aqueous	1	1	8260C	03/01 03:26
8M12811.D	AD02780-002	Ti8	RR-1X	SG 03/01/18	VO15-8260	Aqueous	1	1	8260C	03/01 03:44
8M12812.D	AD02780-004	Ti8	RR-1X	SG 03/01/18	VO15-8260	Aqueous	1	1	8260C	03/01 04:02
8M12813.D	AD02780-005	Ti8Ocf	RR-10X	SG 03/01/18	VO15-8260	Aqueous	1	1	8260C	03/01 04:20
8M12814.D	STD	Ti8				Aqueous	1	1	624\826	03/01 04:37
8M12815.D	BLK	Ti8				Aqueous	1	1	624\826	03/01 04:55

Anc	Area Not Checked	En	Extraction Performed Past Hold	Cn	Warning Possible Carry Over
An	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tclo/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for enh
B8m	Blank 8000 series missing	Eto	Tclo Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or andrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rnd Out on MsMsd (col1 and or col2) 600 sedes
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 sedes sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Pmb with calmt csv for init calibration chek rfs	S6	600 series surrogate out
Cma	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)



RUN LOG

Instrument: GCMS_3 Year: 2018 8022222 0222
Analyst: AVP

1-1-3M125775

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3M125775.	BFB TUNE		V-267203,V-267159,V-274482,V-274629	SG 03/02/18						03/01 18:28
3M125776.	CAL @ 20 PPB		OK	SG 03/02/18		Aqueous	1	1	624\826	03/01 18:38
3M125778.	BLK					Aqueous	1	1	624\826	03/01 19:14
3M125779.	DAILY BLANK		OK,V-11172	SG 03/02/18		Methano	1	1	8260C	03/01 19:30
3M125780.	DAILY BLANK		OK	SG 03/02/18		Aqueous	1	1	624\826	03/01 19:47
3M125781.	AD02764-003		OK MBS67258	SG 03/02/18	VO-8260	Aqueous	1	1	624\826	03/01 20:04
3M125782.	MBS67258	M16M18	OK MBS67258	SG 03/02/18		Aqueous	1	1	624\826	03/01 20:20
3M125783.	AD02764-004(MS:A	M16M18	OK MBS67258	SG 03/02/18	VO-8260	Aqueous	1	1	624\826	03/01 20:37
3M125784.	AD02764-005(MSD:	M16M18	OK MBS67258	SG 03/02/18	VO-8260	Aqueous	1	1	624\826	03/01 20:55
3M125785.	BLK		-	SG 03/02/18		Aqueous	1	1	624\826	03/01 21:11
3M125786.	AD02792-002		OK	SG 03/02/18	VO15-8260	Aqueous	1	1	8260C	03/01 21:28
3M125787.	AD02792-003		OK	SG 03/02/18	VO15-8260	Aqueous	1	1	8260C	03/01 21:45
3M125788.	AD02780-009		OK	SG 03/02/18	VO15-8260	Aqueous	1	1	8260C	03/01 22:01
3M125789.	AD02775-002		OK	SG 03/02/18	VO15-8260	Aqueous	1	1	8260C	03/01 22:18
3M125790.	AD02792-001		OK	SG 03/02/18	VO15-8260	Aqueous	1	1	8260C	03/01 22:31
3M125791.	AD02813-001		OK	SG 03/02/18	VO15-8260	Aqueous	1	1	8260C	03/01 22:49
3M125792.	AD02799-002	S8	RR-1X	SG 03/02/18	VO-8260	Aqueous	1	1	8260C	03/01 23:05
3M125793.	AD02775-003		OK	SG 03/02/18	VO15-8260	Aqueous	1	1	8260C	03/01 23:24
3M125794.	AD02780-003(20X)		RR-1X	SG 03/02/18	VO15-8260	Aqueous	1	20	8260C	03/01 23:41
3M125795.	AD02780-006(5X)		RR-1X	SG 03/02/18	VO15-8260	Aqueous	1	5	8260C	03/01 23:58
3M125796.	AD02780-007(20X)		OK	SG 03/02/18	VO15-8260	Aqueous	1	20	8260C	03/02 00:15
3M125797.	AD02780-008(10X)		OK	SG 03/02/18	VO15-8260	Aqueous	1	10	8260C	03/02 00:31
3M125798.	AD02813-002(10X)				VO15-8260	Aqueous	1	10	8260C	03/02 00:48
3M125799.	AD02813-004(10X)		RR-1X	SG 03/02/18	VO15-8260	Aqueous	1	10	8260C	03/02 01:05
3M125800.	AD02813-003(10X)		RR-1X	SG 03/02/18	VO15-8260	Aqueous	1	10	8260C	03/02 01:21
3M125801.	MBS67259		MBS67259			Methano	1	1	8260C	03/02 01:38
3M125802.	MBS67260		MBS67260			Methano	1	1	8260C	03/02 01:55
3M125803.	BLK					Aqueous	1	1	624\826	03/02 02:11
3M125804.	AD02775-001	Ocf	RR-80uL	SG 03/02/18	VO15-8260	Aqueous	1	1	8260C	03/02 02:28
3M125805.	AD02799-001		RR-1X	SG 03/02/18	VO-8260	Aqueous	1	1	8260C	03/02 02:45
3M125806.	AD02736-001		OK	SG 03/02/18	VO15-8260	Methano	1	1	8260C	03/02 03:01
3M125807.	AD02736-005		OK	SG 03/02/18	VO15-8260	Methano	1	1	8260C	03/02 03:18
3M125808.	AD02736-008		RR-5G MBS67264	SG 03/02/18	VO15-8260	Methano	1	1	8260C	03/02 03:35
3M125809.	AD02736-010		RR-5G	SG 03/02/18	VO15-8260	Methano	1	1	8260C	03/02 03:51
3M125810.	AD02736-004(400u		OK	SG 03/02/18	VO15-8260	Methano	1	2	8260C	03/02 04:08
3M125811.	AD02736-007(400u		OK	SG 03/02/18	VO15-8260	Methano	1	2	8260C	03/02 04:24
3M125812.	AD02736-009(80uL)		OK	SG 03/02/18	VO15-8260	Methano	1	10	8260C	03/02 04:41
3M125813.	AD02736-006(400u		OK	SG 03/02/18	VO15-8260	Methano	1	2	8260C	03/02 04:58
3M125814.	AD02736-011(MS)		OK MBS67259	SG 03/02/18	VO15-8260	Methano	1	1	8260C	03/02 05:14
3M125815.	AD02736-011(MSD)		OK MBS67259	SG 03/02/18	VO15-8260	Methano	1	1	8260C	03/02 05:31
3M125816.	MBS67261		OK MBS67261	SG 03/02/18		Methano	1	1	8260C	03/02 05:48
3M125817.	AD02736-011		RR-5G MBS67259	SG 03/02/18	VO15-8260	Methano	1	1	8260C	03/02 06:04

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for enh
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evm	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Endinn Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Co	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-253443

Prepared By: Revolus, Jean | Department: Organics | ApprovedBy: jean
Description: Ethyl ether/Furan Mix | BatchNumber: | ApproveDate: 03/06/18
Prep Date: 4/5/2017 | Concentration: 5000 ppm | Checked: Yes
Expiration Date: 3/31/2018 | Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
10710	METHYL ALCOHOL	10 ml	NEAT neat	
10096	Furan	50 mg	Neat neat	5000 ppm
8786	Ethyl Ether	50 mg	neat neat	5000 ppm

Veritech Lot Number: V-253448

Prepared By: Revolus, Jean | Department: Organics | ApprovedBy: akmal
Description: Ethyl ether/Furan Mix(2ndSource) | BatchNumber: | ApproveDate: 04/11/17
Prep Date: 4/5/2017 | Concentration: 5000 ppm | Checked: Yes
Expiration Date: 3/31/2018 | Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
10096	Furan	50 mg	Neat neat	5000 ppm
10710	METHYL ALCOHOL	10 ml	NEAT neat	
8786	Ethyl Ether	50 mg	neat neat	5000 ppm

Veritech Lot Number: V-261014

Prepared By: Revolus, Jean | Department: Organics | ApprovedBy: jean
Description: VOA ADD MIX | BatchNumber: | ApproveDate: 03/06/18
Prep Date: 8/4/2017 | Concentration: 5000 ppm | Checked: Yes
Expiration Date: 8/4/2018 | Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
2889	1,2,4,5-TETRAMETHYLBENZENE	50 mg	NEAT	5000 ppm
9626	p-Ethyltoluene	50 mg	Neat	5000 ppm
10966	Cyclohexanone	250 mg	NEAT neat	25000 ppm
11024	METHYL Alcohol		neat neat	
9642	p-Diethylbenzene	50 mg	Neat	5000 ppm

Veritech Lot Number: V-261028

Prepared By: Revolus, Jean | Department: Organics | ApprovedBy: akmal
Description: VOA ADD MIX(2nd Source) | BatchNumber: | ApproveDate: 08/08/17
Prep Date: 8/4/2017 | Concentration: 5000 ppm | Checked: Yes
Expiration Date: 8/4/2018 | Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
2889	1,2,4,5-TETRAMETHYLBENZENE	50 mg	NEAT	5000 ppm
9626	p-Ethyltoluene	50 mg	Neat	5000 ppm
10966	Cyclohexanone	250 mg	NEAT neat	25000 ppm
11024	METHYL Alcohol		neat neat	
9642	p-Diethylbenzene	50 mg	Neat	5000 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-261034

Prepared By: Revolus, Jean
Description: Voa Extra Add Mix
Prep Date: 8/7/2017
Expiration Date: 8/7/2018
Department: Organics
BatchNumber:
Concentration: 2000-20000 p
Final Volume: 10 ml
ApprovedBy: jean
ApproveDate: 03/06/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8784	Methyl Methacrylate	20 mg	neat neat	2000 ppm
10964	Isopropyl Acetate	20 mg	NEAT neat	2000 ppm
9627	Butyl methacrylate	20 mg	Neat	2000 ppm
8787	n-Butyl Acrylate	20 mg	neat neat	2000 ppm
11024	METHYL Alcohol	10 ml	neat neat	
10271	Ethyl methacrylate	20 mg	Neat neat	2000 ppm
8809	n-Amyl Acetate	20 mg	neat neat	2000 ppm
9641	d-Camphor	200 mg	Neat	20000 ppm
8782	Ethyl Acetate	20 mg	neat neat	2000 ppm
8781	Camphene	20 mg	neat neat	2000 ppm

Veritech Lot Number: V-261036

Prepared By: Revolus, Jean
Description: Voa Extra Add Mix(2nd Source)
Prep Date: 8/7/2017
Expiration Date: 8/7/2018
Department: Organics
BatchNumber:
Concentration: 2000-20000 p
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 08/08/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8784	Methyl Methacrylate	20 mg	neat neat	2000 ppm
9627	Butyl methacrylate	20 mg	Neat	2000 ppm
10964	Isopropyl Acetate	20 mg	NEAT neat	2000 ppm
8787	n-Butyl Acrylate	20 mg	neat neat	2000 ppm
10271	Ethyl methacrylate	20 mg	Neat neat	2000 ppm
11024	METHYL Alcohol	10 ml	neat neat	
8809	n-Amyl Acetate	20 mg	neat neat	2000 ppm
9641	d-Camphor	200 mg	Neat	20000 ppm
8782	Ethyl Acetate	20 mg	neat neat	2000 ppm
8781	Camphene	20 mg	neat neat	2000 ppm

Veritech Lot Number: V-267159

Prepared By: Previlon, Wilner
Description: VOA WORKING INT/SURR MIX
Prep Date: 11/13/2017
Expiration Date: 4/13/2018
Department: Organics
BatchNumber:
Concentration: 150 ppm
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 11/15/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
7966	Methanol	88 ml	neat neat	
10520	8260A Surrogate Mix	6 ml	2500 ppm	150 ppm
10519	8260A Internal Standard Mix	6 ml	2500 ppm	150 ppm

Veritech Lot Number: V-267203

Prepared By: Goring, Shawn
Description: BFB Tune Mix
Prep Date: 11/14/2017
Expiration Date: 4/13/2018
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 1.5 ml
ApprovedBy: akmal
ApproveDate: 11/15/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-267159	VOA WORKING INT/SURR MIX	500 ul	150 ppm	50 ppm
7967	Methanol	1000 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-271220

Prepared By: Previlon, Wilner
Description: 200ppm VOA Working Std
Prep Date: 1/12/2018
Expiration Date: 3/31/2018
Department: Organics
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 01/23/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
10865	methyl alcohol	220 ul	neat neat	neat
10516	502.2 Cal Mix #1(Gases)	100 ul	2000 ppm	200 ppm
10515	502.2 CAL2000 Mega Mix	100 ul	2000 ppm	200 ppm
10570	8260 CAL.Mix 2	100 ul	2000 ppm	200 ppm
11309	Custom VOC Standard	100 ul	VARIOUS	various ppm
10518	tert-Amyl Methyl Ether	100 ul	2000 ppm	200 ppm
V-261014	VOA ADD MIX	40 ul	5000 ppm	various ppm
V-253443	Ethyl ether/Furan Mix	40 ul	5000 ppm	200 ppm
V-261034	Voa Extra Add Mix	100 ul	2000-20000 p	200 ppm
10517	Ethyl-tert-Butyl Ether(ETBE)	100 ul	2000 ppm	200 ppm

Veritech Lot Number: V-271221

Prepared By: Previlon, Wilner
Description: MBS
Prep Date: 1/12/2018
Expiration Date: 3/31/2018
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 01/23/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
10865	methyl alcohol	610 ul	neat neat	neat neat
10919	Volatile.Org.COMPDS Mix 6	50 ul	2000 ppm	100 ppm
10918	502/524 Vola.Org.Cal Mix	50 ul	2000 ppm	100 ppm
10571	SS 8260 CAL.Mix 2(2nd Source)	50 ul	2000 ppm	100 ppm
11310	Custom VOC Standard(2nd Source)	50 ul	VARIOUS	various ppm
10704	Tert-Amyl methyl ether	50 ul	2000 ppm	100 ppm
V-261028	VOA ADD MIX(2nd Source)	20 ul	5000 ppm	various ppm
V-261036	Voa Extra Add Mix(2nd Source)	50 ul	2000-20000 p	100-1000 pp
V-253448	Ethyl ether/Furan Mix(2ndSource)	20 ul	5000 ppm	100 ppm
10739	Ethyl-tert-Butyl Ether	50 ul	2000 ppm	100 ppm

Veritech Lot Number: V-271491

Prepared By: Goring, Shawn
Description: 20ppm VOA Working Std
Prep Date: 1/18/2018
Expiration Date: 3/31/2018
Department: Organics
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 01/19/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11172	METHYL ALCOHOL	800 ul	neat neat	neat
V-271220	200ppm VOA Working Std	200 ul	VARIOUS pp	200 ppm

Veritech Lot Number: V-271492

Prepared By: Goring, Shawn
Description: 20ppm Freon VOA Working Std
Prep Date: 1/18/2018
Expiration Date: 3/31/2018
Department: Organics
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 01/19/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11172	METHYL ALCOHOL	800 ul	neat neat	neat
11284	Chlorodifluoromethane	200 ul	200 ppm	200 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-274139

Prepared By: Previlon, Wilner | Department: Organics | ApprovedBy: akmal
Description: 624/8260 CAL @ 250 PPB | BatchNumber: B-24589 | ApproveDate: 02/22/18
Prep Date: 2/21/2018 | Concentration: VARIOUS ppb | Checked: Yes
Expiration Date: 2/28/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271220	200ppm VOA Working Std	125 ul	VARIOUS pp	250 ppb
9712	P&T Water	100 ml	Neat neat	
11284	Chlorodifluoromethane	125 ul	200 ppm	250 ppb

Veritech Lot Number: V-274140

Prepared By: Previlon, Wilner | Department: Organics | ApprovedBy: akmal
Description: 624/8260 CAL @ 100 PPB | BatchNumber: B-24589 | ApproveDate: 02/22/18
Prep Date: 2/21/2018 | Concentration: VARIOUS ppb | Checked: Yes
Expiration Date: 2/28/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271220	200ppm VOA Working Std	50 ul	VARIOUS pp	100 ppb
9712	P&T Water	100 ml	Neat neat	
11284	Chlorodifluoromethane	50 ul	200 ppm	100 ppb

Veritech Lot Number: V-274141

Prepared By: Previlon, Wilner | Department: Organics | ApprovedBy: akmal
Description: 624/8260 CAL @ 50 PPB | BatchNumber: B-24589 | ApproveDate: 02/22/18
Prep Date: 2/21/2018 | Concentration: VARIOUS ppb | Checked: Yes
Expiration Date: 2/28/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271220	200ppm VOA Working Std	25 ul	VARIOUS pp	50 ppb
9712	P&T Water	100 ml	Neat neat	
11284	Chlorodifluoromethane	25 ul	200 ppm	50 ppb

Veritech Lot Number: V-274142

Prepared By: Previlon, Wilner | Department: Organics | ApprovedBy: akmal
Description: 624/8260 CAL @ 20 PPB | BatchNumber: B-24589 | ApproveDate: 02/22/18
Prep Date: 2/21/2018 | Concentration: VARIOUS ppb | Checked: Yes
Expiration Date: 2/28/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271220	200ppm VOA Working Std	10 ul	VARIOUS pp	20 ppb
9712	P&T Water	100 ml	Neat neat	
11284	Chlorodifluoromethane	10 ul	200 ppm	20 ppb

Veritech Lot Number: V-274143

Prepared By: Previlon, Wilner | Department: Organics | ApprovedBy: akmal
Description: 624/8260 CAL @ 10 PPB | BatchNumber: B-24589 | ApproveDate: 02/22/18
Prep Date: 2/21/2018 | Concentration: VARIOUS ppb | Checked: Yes
Expiration Date: 2/28/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271491	20ppm VOA Working Std	50 ul	VARIOUS pp	10 ppb
9712	P&T Water	100 ml	Neat neat	
v-271492	20ppm Freon VOA Working Std	50 ul	VARIOUS pp	10 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-274144

Prepared By: Previlon, Wilner | Department: Organics | ApprovedBy: akmal
Description: 624/8260 CAL @ 5 PPB | BatchNumber: B-24589 | ApproveDate: 02/22/18
Prep Date: 2/21/2018 | Concentration: VARIOUS ppb | Checked: Yes
Expiration Date: 2/28/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271491	20ppm VOA Working Std	25 ul	VARIOUS pp	5 ppb
9712	P&T Water	100 ml	Neat neat	
v-271492	20ppm Freon VOA Working Std	25 ul	VARIOUS pp	5 ppb

Veritech Lot Number: V-274145

Prepared By: Previlon, Wilner | Department: Organics | ApprovedBy: akmal
Description: 624/8260 CAL @ 1 PPB | BatchNumber: B-24589 | ApproveDate: 02/22/18
Prep Date: 2/21/2018 | Concentration: VARIOUS ppb | Checked: Yes
Expiration Date: 2/28/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271491	20ppm VOA Working Std	5 ul	VARIOUS pp	1 ppb
9712	P&T Water	100 ml	Neat neat	
v-271492	20ppm Freon VOA Working Std	5 ul	VARIOUS pp	1 ppb

Veritech Lot Number: V-274146

Prepared By: Previlon, Wilner | Department: Organics | ApprovedBy: akmal
Description: 624/8260 CAL @ 0.5 PPB | BatchNumber: B-24589 | ApproveDate: 02/22/18
Prep Date: 2/21/2018 | Concentration: VARIOUS ppb | Checked: Yes
Expiration Date: 2/28/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271491	20ppm VOA Working Std	2.5 ul	VARIOUS pp	0.5 ppb
9712	P&T Water	100 ml	Neat neat	
V-271492	20ppm Freon VOA Working Std	2.5 ul	VARIOUS pp	0.5 ppb

Veritech Lot Number: V-274147

Prepared By: Previlon, Wilner | Department: Organics | ApprovedBy: akmal
Description: 624/8260 CAL @ 500 PPB | BatchNumber: B-24589 | ApproveDate: 02/22/18
Prep Date: 2/21/2018 | Concentration: VARIOUS ppb | Checked: Yes
Expiration Date: 2/28/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271220	200ppm VOA Working Std	250 ul	VARIOUS pp	500 ppb
9712	P&T Water	100 ml	Neat neat	
11284	Chlorodifluoromethane	250 ul	200 ppm	500 ppb

Veritech Lot Number: V-274148

Prepared By: Previlon, Wilner | Department: Organics | ApprovedBy: akmal
Description: ICV CAL @ 20 PPB | BatchNumber: | ApproveDate: 02/22/18
Prep Date: 2/21/2018 | Concentration: VARIOUS ppb | Checked: Yes
Expiration Date: 2/28/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271221	MBS	20 ul	100 ppm	20 ppb
9712	P&T Water	100 ml	Neat neat	neat
11284	Chlorodifluoromethane	10 ul	200 ppm	20 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-274478

Prepared By: Previlon, Wilner
Description: 200ppm VOA Working Std
Prep Date: 2/26/2018
Expiration Date: 3/31/2018
Department: Organics
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 1 ml
ApprovedBy: jean
ApproveDate: 03/07/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
10865	methyl alcohol	220 ul	neat neat	neat
10516	502.2 Cal Mix #1(Gases)	100 ul	2000 ppm	200 ppm
10515	502.2 CAL2000 Mega Mix	100 ul	2000 ppm	200 ppm
10570	8260 CAL.Mix 2	100 ul	2000 ppm	200 ppm
11309	Custom VOC Standard	100 ul	VARIOUS	various ppm
10518	tert-Amyl Methyl Ether	100 ul	2000 ppm	200 ppm
V-261014	VOA ADD MIX	40 ul	5000 ppm	various ppm
V-253443	Ethyl ether/Furan Mix	40 ul	5000 ppm	200 ppm
V-261034	Voa Extra Add Mix	100 ul	2000-20000 p	200 ppm
10517	Ethyl-tert-Butyl Ether(ETBE)	100 ul	2000 ppm	200 ppm

Veritech Lot Number: V-274482

Prepared By: Previlon, Wilner
Description: MBS
Prep Date: 2/26/2018
Expiration Date: 3/31/2018
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: jean
ApproveDate: 03/09/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
10865	methyl alcohol	610 ul	neat neat	neat neat
10919	Volatile.Org.COMPDS Mix 6	50 ul	2000 ppm	100 ppm
10918	502/524 Vola.Org.Cal Mix	50 ul	2000 ppm	100 ppm
10571	SS 8260 CAL.Mix 2(2nd Source)	50 ul	2000 ppm	100 ppm
11310	Custom VOC Standard(2nd Source)	50 ul	VARIOUS	various ppm
10704	Tert-Amyl methyl ether	50 ul	2000 ppm	100 ppm
V-261028	VOA ADD MIX(2nd Source)	20 ul	5000 ppm	various ppm
V-261036	Voa Extra Add Mix(2nd Source)	50 ul	2000-20000 p	100-1000 pp
V-253448	Ethyl ether/Furan Mix(2ndSource)	20 ul	5000 ppm	100 ppm
10739	Ethyl-tert-Butyl Ether	50 ul	2000 ppm	100 ppm

Veritech Lot Number: V-274484

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 250 PPB
Prep Date: 2/26/2018
Expiration Date: 3/3/2018
Department: Organics
BatchNumber: B-24618
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 03/07/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274478	200ppm VOA Working Std	125 ul	VARIOUS pp	250 ppb
9712	P&T Water	100 ml	Neat neat	
11284	Chlorodifluoromethane	125 ul	200 ppm	250 ppb

Veritech Lot Number: V-274485

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 100 PPB
Prep Date: 2/26/2018
Expiration Date: 3/3/2018
Department: Organics
BatchNumber: B-24618
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 03/07/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274478	200ppm VOA Working Std	50 ul	VARIOUS pp	100 ppb
9712	P&T Water	100 ml	Neat neat	
11284	Chlorodifluoromethane	50 ul	200 ppm	100 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-274486

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 50 PPB
Prep Date: 2/26/2018
Expiration Date: 3/3/2018
Department: Organics
BatchNumber: B-24618
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 03/07/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274478	200ppm VOA Working Std	25 ul	VARIOUS pp	50 ppb
9712	P&T Water	100 ml	Neat neat	
11284	Chlorodifluoromethane	25 ul	200 ppm	50 ppb

Veritech Lot Number: V-274487

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 20 PPB
Prep Date: 2/26/2018
Expiration Date: 3/3/2018
Department: Organics
BatchNumber: B-24618
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 03/07/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274478	200ppm VOA Working Std	10 ul	VARIOUS pp	20 ppb
9712	P&T Water	100 ml	Neat neat	
11284	Chlorodifluoromethane	10 ul	200 ppm	20 ppb

Veritech Lot Number: V-274488

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 10 PPB
Prep Date: 2/26/2018
Expiration Date: 3/3/2018
Department: Organics
BatchNumber: B-24618
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 03/07/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271491	20ppm VOA Working Std	50 ul	VARIOUS pp	10 ppb
9712	P&T Water	100 ml	Neat neat	
v-271492	20ppm Freon VOA Working Std	50 ul	VARIOUS pp	10 ppb

Veritech Lot Number: V-274489

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 5 PPB
Prep Date: 2/26/2018
Expiration Date: 3/3/2018
Department: Organics
BatchNumber: B-24618
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 03/07/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271491	20ppm VOA Working Std	25 ul	VARIOUS pp	5 ppb
9712	P&T Water	100 ml	Neat neat	
v-271492	20ppm Freon VOA Working Std	25 ul	VARIOUS pp	5 ppb

Veritech Lot Number: V-274490

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 1 PPB
Prep Date: 2/26/2018
Expiration Date: 3/3/2018
Department: Organics
BatchNumber: B-24618
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 03/07/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271491	20ppm VOA Working Std	5 ul	VARIOUS pp	1 ppb
9712	P&T Water	100 ml	Neat neat	
v-271492	20ppm Freon VOA Working Std	5 ul	VARIOUS pp	1 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-274491

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 0.5 PPB
Prep Date: 2/26/2018
Expiration Date: 3/3/2018
Department: Organics
BatchNumber: B-24618
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 03/15/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271491	20ppm VOA Working Std	2.5 ul	VARIOUS pp	0.5 ppb
9712	P&T Water	100 ml	Neat neat	
V-271492	20ppm Freon VOA Working Std	2.5 ul	VARIOUS pp	0.5 ppb

Veritech Lot Number: V-274492

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 500 PPB
Prep Date: 2/26/2018
Expiration Date: 3/3/2018
Department: Organics
BatchNumber: B-24618
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 03/15/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274478	200ppm VOA Working Std	250 ul	VARIOUS pp	500 ppb
9712	P&T Water	100 ml	Neat neat	
11284	Chlorodifluoromethane	250 ul	200 ppm	500 ppb

Veritech Lot Number: V-274501

Prepared By: Previlon, Wilner
Description: ICV CAL @ 20 PPB
Prep Date: 2/26/2018
Expiration Date: 3/3/2018
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 03/15/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274482	MBS	20 ul	100 ppm	20 ppb
9712	P&T Water	100 ml	Neat neat	neat
11284	Chlorodifluoromethane	10 ul	200 ppm	20 ppb

Veritech Lot Number: V-274629

Prepared By: Goring, Shawn
Description: CAL @ 20 PPB
Prep Date: 3/1/2018
Expiration Date: 3/8/2018
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: jean
ApproveDate: 03/07/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274478	200ppm VOA Working Std	10 ul	VARIOUS pp	20 ppb
9712	P&T Water	100 ml	Neat neat	
11284	Chlorodifluoromethane	10 ul	200 ppm	20 ppb

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 2889

Description
1,2,4,5-TETRAMETHYLBENZENE

ApprovedBy: jean
ApproveDate: 07/30/09
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACROS ORGANI	409390050	A0214190	11/20/07	11/30/20	Revolus, Jean	1	1ML	NEAT	

Veritech Control/Receipt Number: 7966

Description
Methanol

ApprovedBy: jean
ApproveDate: 06/20/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
spectrum	PT705-02	2CE0318	06/19/13	06/18/18	Lopez, Jose	30	1L	neat	neat

Veritech Control/Receipt Number: 7967

Description
Methanol

ApprovedBy: jean
ApproveDate: 06/20/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
spectrum	PT705-02	2CE0317	06/19/13	06/18/18	Lopez, Jose	6	1L	neat	neat

Veritech Control/Receipt Number: 8781

Description
Camphene

ApprovedBy: akmal
ApproveDate: 06/19/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-11395-1G	2868400	06/19/14	12/31/19	Hamid, Akmal	2	1g	neat	neat

Veritech Control/Receipt Number: 8782

Description
Ethyl Acetate

ApprovedBy: akmal
ApproveDate: 06/19/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-11881-1G	2787200	06/19/14	09/30/18	Hamid, Akmal	1	1g	neat	neat

Veritech Control/Receipt Number: 8784

Description
Methyl Methacrylate

ApprovedBy: akmal
ApproveDate: 06/19/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-12443-1G	2762100	06/19/14	10/31/18	Hamid, Akmal	5	1g	neat	neat

Veritech Control/Receipt Number: 8786

Description
Ethyl Ether

ApprovedBy: akmal
ApproveDate: 06/19/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-11897-1G	2853600	06/19/14	03/31/18	Hamid, Akmal	2	1g	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8787

Description
n-Butyl Acrylate

ApprovedBy: akmal
ApproveDate: 06/19/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-12513-1G	2865800	06/19/14	02/28/19	Hamid, Akmal	10	1g	neat	neat

Veritech Control/Receipt Number: 8809

Description
n-Amyl Acetate

ApprovedBy: akmal
ApproveDate: 07/07/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	N-12508-1G	2708400	07/07/14	01/31/19	Hamid, Akmal	1	1g	neat	neat

Veritech Control/Receipt Number: 9626

Description
p-Ethyltoluene

ApprovedBy: jean
ApproveDate: 08/04/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEM SERVICE	N-12776-1G	3381600	08/04/15	11/30/21	Revolus, Jean	1	1g	Neat	

Veritech Control/Receipt Number: 9627

Description
Butyl methacrylate

ApprovedBy: jean
ApproveDate: 08/04/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-11371-1G	2127700	08/04/15	11/30/18	Revolus, Jean	1	1g	Neat	

Veritech Control/Receipt Number: 9641

Description
d-Camphor

ApprovedBy: jean
ApproveDate: 08/11/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEM SERVICE	N-11556-1G	3256300	08/11/15	10/31/20	Revolus, Jean	2	1g	Neat	

Veritech Control/Receipt Number: 9642

Description
p-Diethylbenzene

ApprovedBy: jean
ApproveDate: 08/11/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEM SERVICE	N-12771-100MG	4233000	08/11/15	08/31/20	Revolus, Jean	4	100m	Neat	

Veritech Control/Receipt Number: 9712

Description
P&T Water

ApprovedBy: jean
ApproveDate: 10/20/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Veritech	N/A	N/A	09/28/15	09/28/20	Goring, Shawn	1	N/A	Neat	Neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 10096

Description
Furan

ApprovedBy: akmal
ApproveDate: 03/31/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-12101-1G	3609300	03/31/16	02/28/20	Hamid, Akmal	1	1g	Neat	Neat

Veritech Control/Receipt Number: 10271

Description
Ethyl methacrylate

ApprovedBy: akmal
ApproveDate: 06/14/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N11903-1g	4592300	06/14/16	12/31/19	Hamid, Akmal	1	1g	Neat	Neat

Veritech Control/Receipt Number: 10515

Description
502.2 CAL2000 Mega Mix

ApprovedBy: Jean
ApproveDate: 11/17/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
RESTEK	30431	A0120695	11/01/16	07/31/18	Revolus, Jean	5	1ml	2000	PPM

Veritech Control/Receipt Number: 10516

Description
502.2 Cal Mix #1(Gases)

ApprovedBy: Jean
ApproveDate: 11/17/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
RESTEK	30042	A0120832	11/01/16	04/30/23	Revolus, Jean	5	1ml	2000	PPM

Veritech Control/Receipt Number: 10517

Description
Ethyl-tert-Butyl Ether(ETBE)

ApprovedBy: Jean
ApproveDate: 11/17/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
RESTEK	30628	A0116348	11/01/16	01/31/21	Revolus, Jean	3	1ml	2000	PPM

Veritech Control/Receipt Number: 10518

Description
tert-Amyl Methyl Ether

ApprovedBy: Jean
ApproveDate: 11/17/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
RESTEK	30629	A0104857	11/01/16	07/31/19	Revolus, Jean	5	1ml	2000	PPM

Veritech Control/Receipt Number: 10519

Description
8260A Internal Standard Mix

ApprovedBy: Jean
ApproveDate: 11/17/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
RESTEK	30241	A0117358	11/01/16	02/28/21	Revolus, Jean	10	1ml	2500	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 10520

Description
8260A Surrogate Mix

ApprovedBy: Jean
ApproveDate: 11/17/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
RESTEK	30240	A0116870	11/01/16	01/31/21	Revolus, Jean	10	1ml	2500	PPM

Veritech Control/Receipt Number: 10570

Description
8260 CAL.Mix 2

ApprovedBy: akmal
ApproveDate: 11/28/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	46831-U	LC16307V	11/03/16	08/31/18	Hamid, Akmal	4	1ML	2000	PPM

Veritech Control/Receipt Number: 10571

Description
SS 8260 CAL.Mix 2(2nd Source)

ApprovedBy: akmal
ApproveDate: 11/28/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	4S6831-U	LC19120V	11/03/16	03/31/18	Hamid, Akmal	4	1ML	2000	PPM

Veritech Control/Receipt Number: 10704

Description
Tert-Amyl methyl ether

ApprovedBy: akmal
ApproveDate: 01/17/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	506737	XA16639V	01/17/17	10/31/18	Hamid, Akmal	4	1ML	2000	PPM

Veritech Control/Receipt Number: 10710

Description
METHYL ALCOHOL

ApprovedBy: akmal
ApproveDate: 01/19/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
TEDIA	MP1924	16080704	01/19/17	09/12/18	Burwell, John	12	1 L	NEAT	NEAT

Veritech Control/Receipt Number: 10739

Description
Ethyl-tert-Butyl Ether

ApprovedBy: akmal
ApproveDate: 02/07/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	30628	A0124597	02/07/17	01/31/22	Hamid, Akmal	5	1ml	2000	ppm

Veritech Control/Receipt Number: 10865

Description
methyl alcohol

ApprovedBy: akmal
ApproveDate: 04/06/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	MP1924	16080704	04/05/17	09/12/18	Lopez, Jose	24	6L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 10918

Description
502/524 Vola.Org.Cal Mix

ApprovedBy: akmal
ApproveDate: 04/28/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	502111	LC22531V	04/28/17	08/30/18	Hamid, Akmal	5	1ML	2000	PPM

Veritech Control/Receipt Number: 10919

Description
Volatile.Org.COMPDS Mix 6

ApprovedBy: akmal
ApproveDate: 04/28/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	CRM48799	XA25774V	04/28/17	06/30/18	Hamid, Akmal	5	1ML	2000	PPM

Veritech Control/Receipt Number: 10964

Description
Isopropyl Acetate

ApprovedBy: akmal
ApproveDate: 05/30/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service Inc	N-12223-1G	6037900	05/26/17	02/28/20	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 10966

Description
Cyclohexanone

ApprovedBy: akmal
ApproveDate: 05/30/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service Inc	N-11531-1G	6255400	05/26/17	10/31/19	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 11024

Description
METHYL Alcohol

ApprovedBy: akmal
ApproveDate: 06/27/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
TEDIA	MP1924	17030507	06/23/17	04/05/19	Burwell, John	30	1 L	neat	neat

Veritech Control/Receipt Number: 11172

Description
METHYL ALCOHOL

ApprovedBy: akmal
ApproveDate: 09/19/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	MP1924	17070285	09/18/17	08/14/19	Lopez, Jose	30	1L	neat	neat

Veritech Control/Receipt Number: 11284

Description
Chlorodifluoromethane

ApprovedBy: jean
ApproveDate: 11/20/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	M-REF-03	217071159	11/16/17	07/12/27	Revolus, Jean	20	1ml	200	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11309

Description
Custom VOC Standard

ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	S-16418	217111207	12/05/17	05/20/18	Revolus, Jean	5	1ml	VARIOU	

Veritech Control/Receipt Number: 11310

Description
Custom VOC Standard(2nd Source)

ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	S-16418	217111288	12/05/17	06/04/18	Revolus, Jean	5	1ml	VARIOU	

GC PCB Data

GC PCB Data
QC Summary

FORM2

Surrogate Recovery

Method: EPA 8082A

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column1 S3 Recov	Column2 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
3G107628.D	WMB66107	A	02/28/18 19:20	1		99	96	96	99		
3G107632.D	AD02764-001	A	02/28/18 20:21	1		55	55	87	89		
3G107633.D	AD02764-002	A	02/28/18 20:37	1		45	44	98	99		
3G107634.D	AD02764-003	A	02/28/18 20:52	1		39	41	80	81		
3G107630.D	AD02764-004(MS:AD02	A	02/28/18 19:50	1		67	69	77	78		
3G107631.D	AD02764-005(MSD:AD0	A	02/28/18 20:06	1		62	63	81	83		
3G107635.D	AD02764-006	A	02/28/18 21:07	1		91	89	91	93		
3G107636.D	AD02764-007	A	02/28/18 21:22	1		85	83	97	100		
3G107629.D	WMB66107(MS)	A	02/28/18 19:35	1		81	82	83	87		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8082A

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=TCMX-Surrogate	100	39-132
S2=TCMX-Surrogate	100	39-132
S3=DCB-Surrogate	100	39-142
S4=DCB-Surrogate	100	39-142

Form3
Recovery Data Laboratory Limits
QC Batch: WMB66107

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G107629.D	WMB66107(MS)	2/28/2018 7:35:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	913.43	0	1000	91	60	130
Aroclor-1260 -Total	1	977.24	0	1000	98	60	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: WMB66107

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G107630.D	AD02764-004(MS:AD02764-00	2/28/2018 7:50:00 PM
Non Spike(If applicable):	3G107634.D	AD02764-003	2/28/2018 8:52:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	993.652	0	1000	99	60	130
Aroclor-1260 -Total	1	945.514	0	1000	95	60	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G107631.D	AD02764-005(MSD:AD02764-0	2/28/2018 8:06:00 PM
Non Spike(If applicable):	3G107634.D	AD02764-003	2/28/2018 8:52:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	975.44	0	1000	98	60	130
Aroclor-1260 -Total	1	941.032	0	1000	94	60	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: WMB66107

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G107631.D	AD02764-005(MSD:AD02764-0	2/28/2018 8:06:00 PM
Duplicate(If applicable):	3G107630.D	AD02764-004(MS:AD02764-00	2/28/2018 7:50:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Aroclor-1016 -Total	1	975.44	993.652	1.8	40
Aroclor-1260 -Total	1	941.032	945.514	0.48	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: WMB66107
Blank Data File: 3G107628.D
Matrix: Aqueous

Blank Analysis Date: 02/28/18 19:20
Blank Extraction Date: 02/28/18
(If Applicable)
Method: EPA 8082A

Sample Number	Data File	Analysis Date
AD02764-001	3G107632.D	02/28/18 20:21
AD02764-002	3G107633.D	02/28/18 20:37
AD02764-003	3G107634.D	02/28/18 20:52
AD02764-004(MS:	3G107630.D	02/28/18 19:50
AD02764-005(MSD	3G107631.D	02/28/18 20:06
AD02764-006	3G107635.D	02/28/18 21:07
AD02764-007	3G107636.D	02/28/18 21:22
WMB66107(MS)	3G107629.D	02/28/18 19:35

Form 5

Method: EPA 8082A

Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G106704.D	CAL 3268@500PPB	02/05/18 11:09	Soil	3G10670	9.9435	0.0282	10.6369	0.0263
3G106705.D	CAL 1242@500PPB	02/05/18 11:23	Soil	3G10670	9.9436	0.0271	10.6388	0.0085
3G106706.D	CAL 1248@500PPB	02/05/18 11:38	Soil	3G10670	9.9445	0.0181	10.6392	0.0047
3G106707.D	CAL 2154@500PPB	02/05/18 11:53	Soil	3G10670	9.9445	0.0181	10.6385	0.0113
3G106708.D	CAL 1262@500PPB	02/05/18 12:08	Soil	3G10670	9.9453	0.01	10.6396	0.0009
3G106709.D	CAL 1660@50PPB	02/05/18 12:23	Soil	3G10670	9.9463	0	10.6397	0
3G106710.D	CAL 1660@200PPB	02/05/18 12:38	Soil	3G10670	9.9457	0.006	10.6400	0.0028
3G106711.D	CAL 1660@500PPB	02/05/18 12:52	Soil	3G10670	9.9447	0.0161	10.6391	0.0056
3G106712.D	CAL 1660@1000PPB	02/05/18 13:07	Soil	3G10670	9.9452	0.0111	10.6394	0.0028
3G106713.D	CAL 1660@2000PPB	02/05/18 13:22	Soil	3G10670	9.9440	0.0231	10.6385	0.0113
3G106714.D	CAL 1660@4000PPB	02/05/18 13:37	Soil	3G10670	9.9436	0.0271	10.6374	0.0216
3G106715.D	ICV	02/05/18 13:52	Soil	3G10670	9.9452	0.0111	10.6390	0.0066
3G106716.D	PEST WS	02/05/18 14:07	Soil	3G10670	0.0000	200 *	0.0000	200 *
3G106717.D	SMB64182	02/05/18 17:25	Soil	3G10670	9.9516	0.0533	10.6405	0.0075
3G106718.D	SMB64182(MS)	02/05/18 17:40	Soil	3G10670	9.9450	0.0131	10.6372	0.0235
3G106719.D	CAL 1660@1000PPB	02/05/18 17:55	Soil	3G10670	9.9445	0.0181	10.6379	0.0169
3G106720.D	AD02371-066(MS)	02/05/18 23:21	Soil	3G10671	9.9504	0.0593	10.6372	0.0066
3G106721.D	AD02371-066(MSD)	02/05/18 23:36	Soil	3G10671	9.9433	0.0121	10.6351	0.0263
3G106722.D	AD02371-066	02/05/18 23:51	Soil	3G10671	9.9424	0.0211	10.6354	0.0235
3G106723.D	AD02371-037	02/06/18 00:05	Soil	3G10671	9.9431	0.0141	10.6364	0.0141
3G106724.D	AD02371-039	02/06/18 00:20	Soil	3G10671	9.9422	0.0231	10.6361	0.0169
3G106725.D	AD02371-041	02/06/18 00:35	Soil	3G10671	9.9426	0.0191	10.6359	0.0188
3G106726.D	AD02371-042	02/06/18 00:50	Soil	3G10671	9.9419	0.0261	10.6357	0.0207
3G106727.D	AD02371-043	02/06/18 01:05	Soil	3G10671	9.9422	0.0231	10.6364	0.0141
3G106728.D	AD02371-044	02/06/18 01:19	Soil	3G10671	9.9446	0.001	10.6359	0.0188
3G106729.D	AD02371-045	02/06/18 01:34	Soil	3G10671	9.9427	0.0181	10.6378	0.0009
3G106730.D	CAL 1660@500PPB	02/06/18 01:49	Soil	3G10671	9.9447	0.002	10.6389	0.0094
3G106731.D	1000PPB	02/06/18 02:04	Soil	3G10673	9.9438	0.0091	10.6388	0.0009
3G106732.D	AD02371-046	02/06/18 02:19	Soil	3G10673	9.9436	0.0111	10.6367	0.0207
3G106733.D	AD02371-047	02/06/18 02:34	Soil	3G10673	9.9449	0.002	10.6374	0.0141
3G106734.D	AD02371-048	02/06/18 02:49	Soil	3G10673	9.9444	0.003	10.6381	0.0075
3G106735.D	AD02371-049	02/06/18 03:04	Soil	3G10673	9.9420	0.0272	10.6373	0.015
3G106736.D	AD02371-050	02/06/18 03:18	Soil	3G10673	9.9437	0.0101	10.6373	0.015
3G106737.D	AD02371-051	02/06/18 03:33	Soil	3G10673	9.9443	0.004	10.6377	0.0113
3G106738.D	AD02371-052	02/06/18 03:48	Soil	3G10673	9.9440	0.007	10.6380	0.0085
3G106739.D	AD02371-054	02/06/18 04:03	Soil	3G10673	9.9451	0.004	10.6377	0.0113
3G106740.D	AD02371-055	02/06/18 04:18	Soil	3G10673	9.9450	0.003	10.6375	0.0132
3G106741.D	1000PPB	02/06/18 04:33	Soil	3G10673	9.9473	0.0261	10.6416	0.0254
3G106742.D	CAL 1660@500PPB	02/06/18 04:48	Soil	3G10673	9.9485	0.0382	10.6414	0.0235

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8082A
Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G107593.D	CAL 1660@1000PPB	02/28/18 08:02	Soil	3G10759	9.9399	0	10.6367	0
3G107594.D	SMB66096	02/28/18 08:44	Soil	3G10759	9.9476	0.0774	10.6404	0.0348
3G107595.D	SMB66096(MS)	02/28/18 08:59	Soil	3G10759	9.9401	0.002	10.6370	0.0028
3G107596.D	AD02741-001(MS)	02/28/18 09:13	Soil	3G10759	9.9392	0.007	10.6378	0.0103
3G107597.D	AD02741-001(MSD)	02/28/18 09:28	Soil	3G10759	9.9381	0.0181	10.6370	0.0028
3G107598.D	AD02741-001	02/28/18 09:43	Soil	3G10759	9.9385	0.0141	10.6377	0.0094
3G107599.D	AD02741-003	02/28/18 09:58	Soil	3G10759	9.9383	0.0161	10.6366	0.0009
3G107600.D	AD02741-005	02/28/18 10:13	Soil	3G10759	9.9388	0.0111	10.6374	0.0066
3G107601.D	AD02772-005	02/28/18 10:28	Soil	3G10759	9.9405	0.006	10.6368	0.0009
3G107602.D	AD02746-012	02/28/18 10:43	Soil	3G10759	9.9387	0.0121	10.6371	0.0038
3G107603.D	AD02746-010	02/28/18 10:58	Soil	3G10759	9.9381	0.0181	10.6355	0.0113
3G107604.D	AD02746-008	02/28/18 11:13	Soil	3G10759	9.9400	0.001	10.6382	0.0141
3G107605.D	AD02746-006	02/28/18 11:28	Soil	3G10759	9.9377	0.0221	10.6369	0.0019
3G107606.D	CAL 1660@1000PPB	02/28/18 11:43	Soil	3G10759	9.9401	0.002	10.6389	0.0207
3G107607.D	SMB66098	02/28/18 13:28	Soil	3G10760	9.9497	0.0965	10.6411	0.0207
3G107608.D	SMB66098(MS)	02/28/18 13:43	Soil	3G10760	9.9417	0.0161	10.6374	0.0141
3G107609.D	SMB66099	02/28/18 13:58	Soil	3G10760	9.9408	0.007	10.6390	0.0009
3G107610.D	SMB66099(MS)	02/28/18 14:13	Soil	3G10760	9.9407	0.006	10.6385	0.0038
3G107611.D	AD02703-015(MS)	02/28/18 15:00	Soil	3G10760	9.9494	0.0935	10.6411	0.0207
3G107612.D	AD02703-015(MSD)	02/28/18 15:15	Soil	3G10760	9.9423	0.0221	10.6397	0.0075
3G107613.D	AD02703-015	02/28/18 15:30	Soil	3G10760	9.9413	0.0121	10.6401	0.0113
3G107614.D	AD02703-001	02/28/18 15:45	Soil	3G10760	9.9425	0.0241	10.6396	0.0066
3G107615.D	AD02703-002	02/28/18 16:00	Soil	3G10760	9.9408	0.007	10.6385	0.0038
3G107616.D	AD02703-003	02/28/18 16:15	Soil	3G10760	9.9403	0.002	10.6392	0.0028
3G107617.D	AD02703-004	02/28/18 16:31	Soil	3G10760	9.9409	0.008	10.6392	0.0028
3G107618.D	AD02703-005	02/28/18 16:46	Soil	3G10760	9.9400	0.001	10.6395	0.0056
3G107619.D	AD02703-006	02/28/18 17:00	Soil	3G10760	9.9420	0.0191	10.6398	0.0085
3G107620.D	AD02703-007	02/28/18 17:16	Soil	3G10760	9.9418	0.0171	10.6405	0.015
3G107621.D	AD02703-008	02/28/18 17:31	Soil	3G10760	9.9410	0.0091	10.6401	0.0113
3G107622.D	AD02703-009	02/28/18 17:46	Soil	3G10760	9.9414	0.0131	10.6393	0.0038
3G107623.D	AD02703-010	02/28/18 18:01	Soil	3G10760	9.9416	0.0151	10.6390	0.0009
3G107624.D	AD02703-011	02/28/18 18:16	Soil	3G10760	9.9410	0.0091	10.6399	0.0094
3G107625.D	AD02703-012	02/28/18 18:32	Soil	3G10760	9.9425	0.0241	10.6391	0.0019
3G107626.D	AD02703-013	02/28/18 18:46	Soil	3G10760	9.9423	0.0221	10.6407	0.0169
3G107627.D	CAL 1660@1000PPB	02/28/18 19:02	Soil	3G10760	9.9426	0.0252	10.6407	0.0169
3G107628.D	WMB66107	02/28/18 19:20	Aqueous	3G10762	9.9444	0.0181	10.6416	0.0085
3G107629.D	WMB66107(MS)	02/28/18 19:35	Aqueous	3G10762	9.9424	0.002	10.6403	0.0038
3G107630.D	AD02764-004(MS:AD02	02/28/18 19:50	Aqueous	3G10762	9.9416	0.0101	10.6389	0.0169
3G107631.D	AD02764-005(MSD:AD0	02/28/18 20:06	Aqueous	3G10762	9.9403	0.0231	10.6385	0.0207
3G107632.D	AD02764-001	02/28/18 20:21	Aqueous	3G10762	9.9418	0.008	10.6399	0.0075
3G107633.D	AD02764-002	02/28/18 20:37	Aqueous	3G10762	9.9395	0.0312	10.6392	0.0141
3G107634.D	AD02764-003	02/28/18 20:52	Aqueous	3G10762	9.9400	0.0262	10.6392	0.0141
3G107635.D	AD02764-006	02/28/18 21:07	Aqueous	3G10762	9.9407	0.0191	10.6384	0.0216
3G107636.D	AD02764-007	02/28/18 21:22	Aqueous	3G10762	9.9412	0.0141	10.6396	0.0103
3G107637.D	AD02762-001	02/28/18 21:38	Aqueous	3G10762	9.9407	0.0191	10.6382	0.0235
3G107638.D	AD02771-002	02/28/18 21:53	Aqueous	3G10762	9.9401	0.0252	10.6386	0.0197
3G107639.D	AD02799-001	02/28/18 22:08	Aqueous	3G10762	9.9394	0.0322	10.6372	0.0329
3G107640.D	AD02799-002	02/28/18 22:23	Aqueous	3G10762	9.9402	0.0241	10.6382	0.0235
3G107641.D	CAL 1660@2000PPB	02/28/18 22:39	Aqueous	3G10762	9.9424	0.002	10.6395	0.0113
3G107642.D	2000PPB	02/28/18 23:30	Aqueous	3G10764	9.9395	0.0292	10.6352	0.0404

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

GC PCB Data
Sample Data

Form1

ORGANICS PCB REPORT

Sample Number: AD02764-001
Client Id: RMW-1_02212018
Data File: 3G107632.D
Analysis Date: 02/28/18 20:21
Date Rec/Extracted: 02/22/18-02/28/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 457381

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107632.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 20:21
Operator : ZM/MLC/KD
Sample : AD02764-001
Misc : A,PCB
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 21:23:58 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

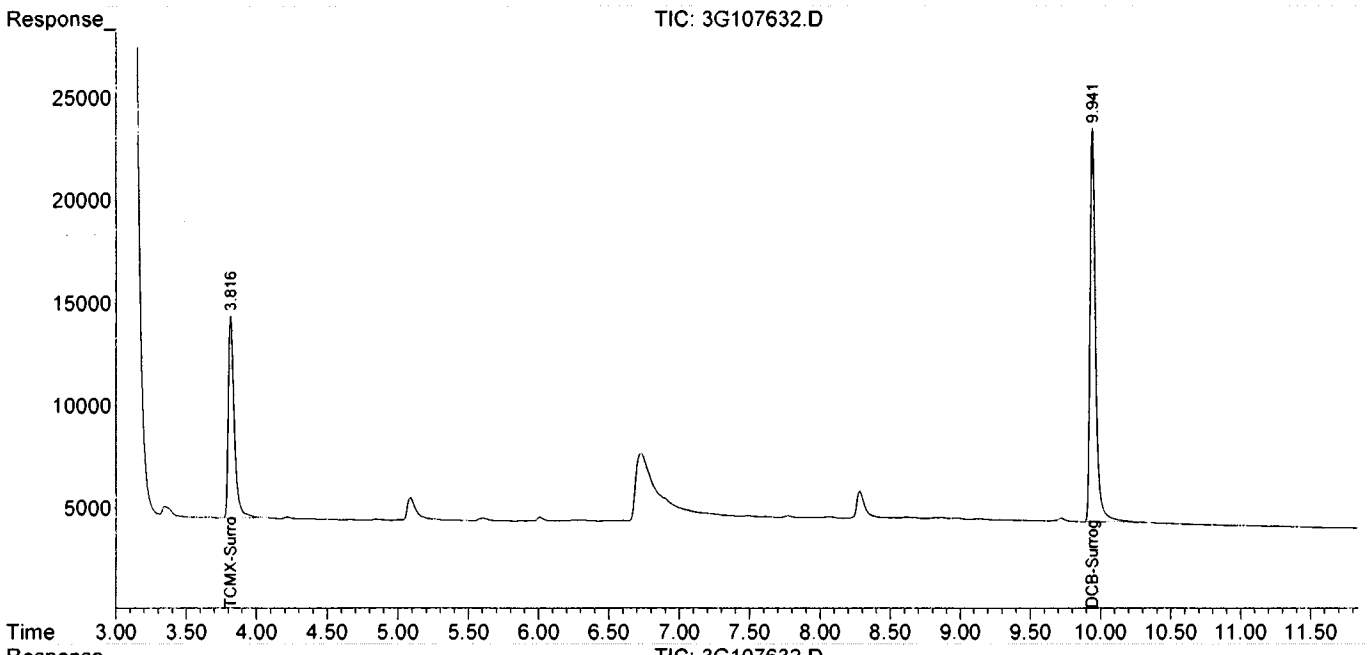
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.817	3.859	289850	536331	55.466	55.101
45)DCB-Surrogate	9.942	10.640	530713	978352	86.942	89.152

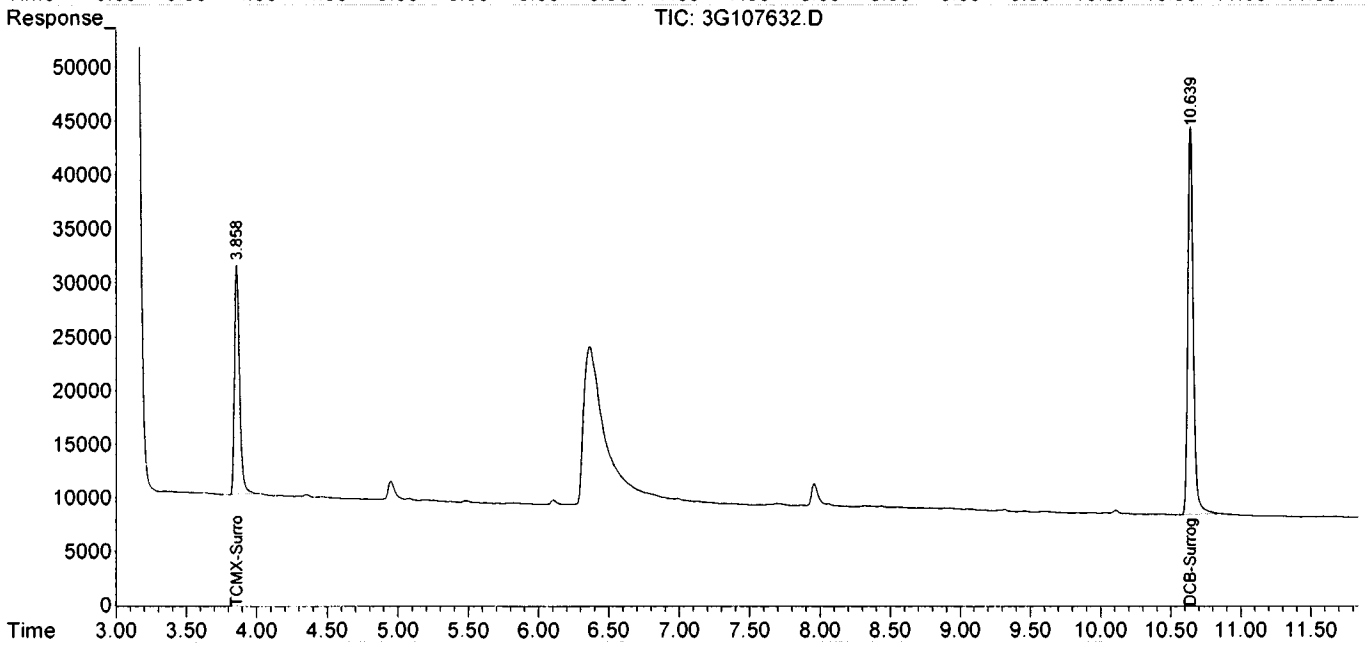
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107632.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 20:21
Operator : ZM/MLC/KD
Sample : AD02764-001
Misc : A,PCB
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 21:23:58 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PCB REPORT

Sample Number: AD02764-002
Client Id: RMW-5_02212018
Data File: 3G107633.D
Analysis Date: 02/28/18 20:37
Date Rec/Extracted: 02/22/18-02/28/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 950ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.26	U	11097-69-1	Aroclor-1254	0.26	U
11104-28-2	Aroclor-1221	0.26	U	11096-82-5	Aroclor-1260	0.26	U
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	1336-36-3	Aroclor (Total)	0.26	U

Worksheet #: 457381

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107633.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 20:37
Operator : ZM/MLC/KD
Sample : AD02764-002
Misc : A,PCB
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 21:24:09 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

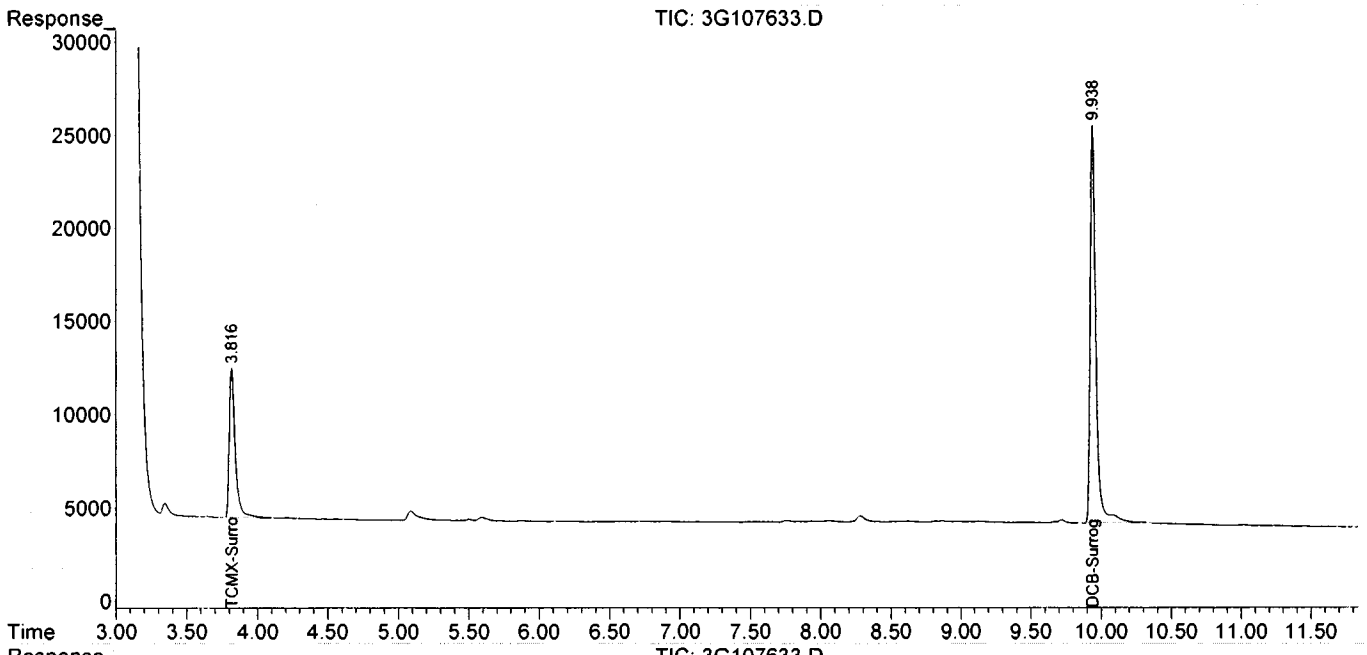
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.817	3.859	234895	427345	44.950	43.904
45)DCB-Surrogate	9.940	10.639	600274	1078734	98.338	98.547

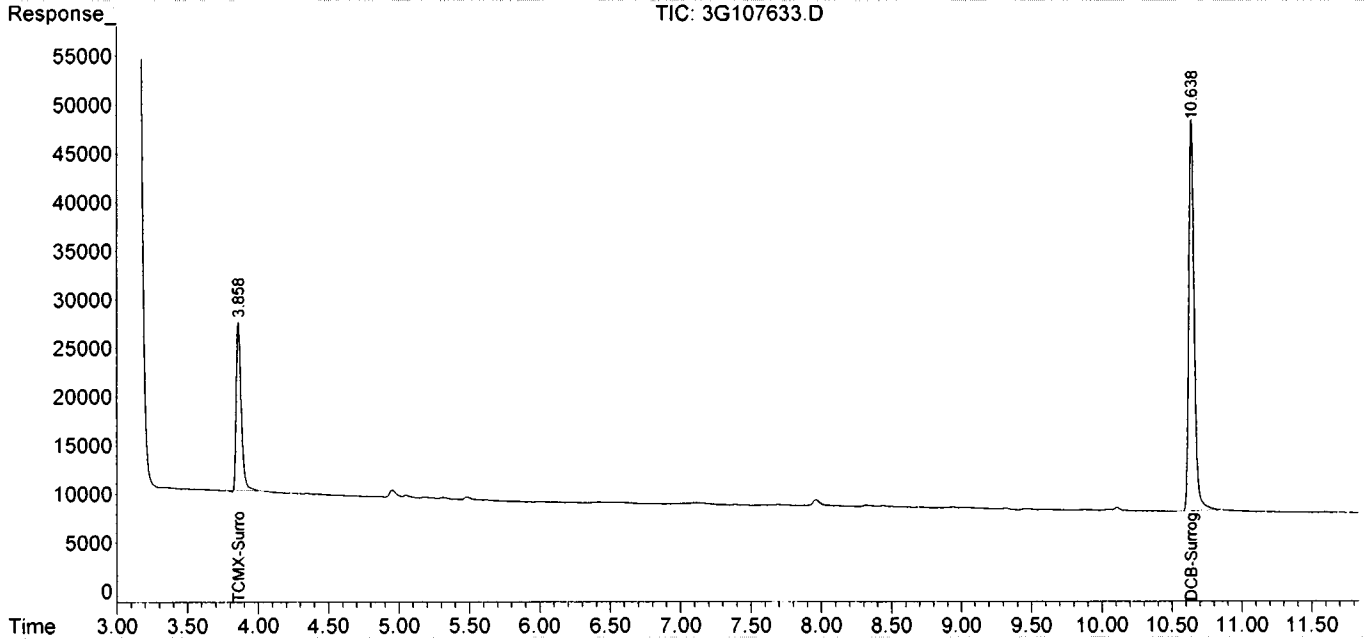
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107633.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 20:37
Operator : ZM/MLC/KD
Sample : AD02764-002
Misc : A,PCB
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 21:24:09 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PCB REPORT

Sample Number: AD02764-003
Client Id: RMW-4_02212018
Data File: 3G107634.D
Analysis Date: 02/28/18 20:52
Date Rec/Extracted: 02/22/18-02/28/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 457381

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107634.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 20:52
Operator : ZM/MLC/KD
Sample : AD02764-003
Misc : A,PCB
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 21:26:05 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

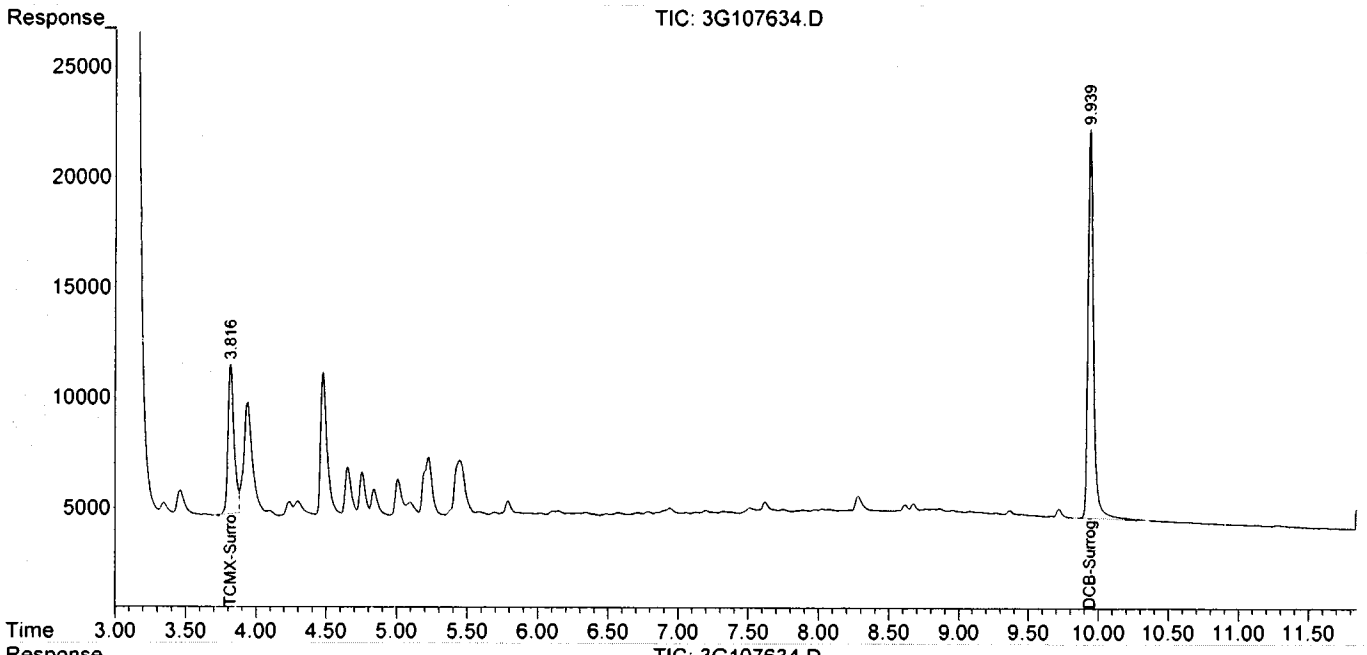
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.817	3.859	202908	394389	38.829	40.518
45)DCB-Surrogate	9.940	10.639	489202	888409	80.142	80.774

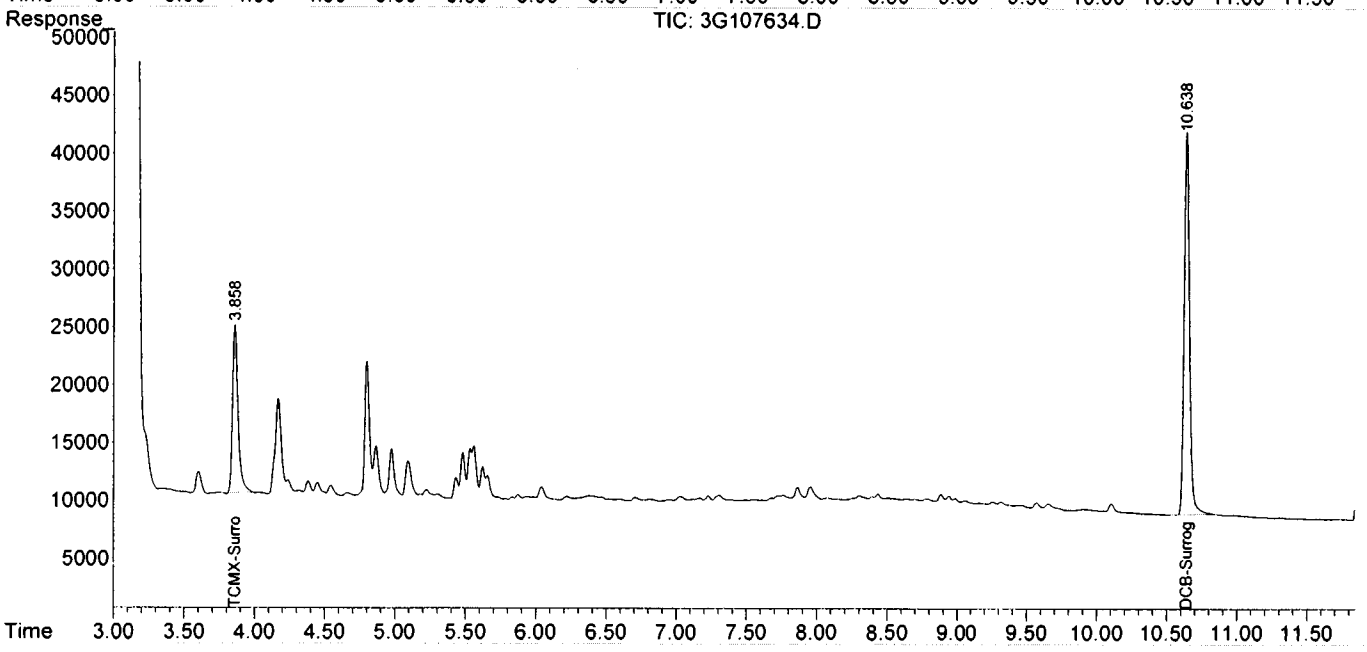
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107634.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 20:52
Operator : ZM/MLC/KD
Sample : AD02764-003
Misc : A,PCB
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 21:26:05 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PCB REPORT

Sample Number: AD02764-004(MS:AD02
Client Id: RMW-4_02212018 MS
Data File: 3G107630.D
Analysis Date: 02/28/18 19:50
Date Rec/Extracted: 02/22/18-02/28/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 980ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	**Aroclor-1016**	**0.26**	**5.1**	11097-69-1	Aroclor-1254	0.26	U
11104-28-2	Aroclor-1221	0.26	U	**11096-82-5**	**Aroclor-1260**	**0.26**	**4.8**
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	**1336-36-3**	**Aroclor (Total)**	**0.26**	**9.9**

Worksheet #: 457381 *Total Target Concentration* 9.9 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107630.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 19:50
Operator : ZM/MLC/KD
Sample : AD02764-004(MS:AD02764-003)
Misc : A,PCB
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 21:23:40 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

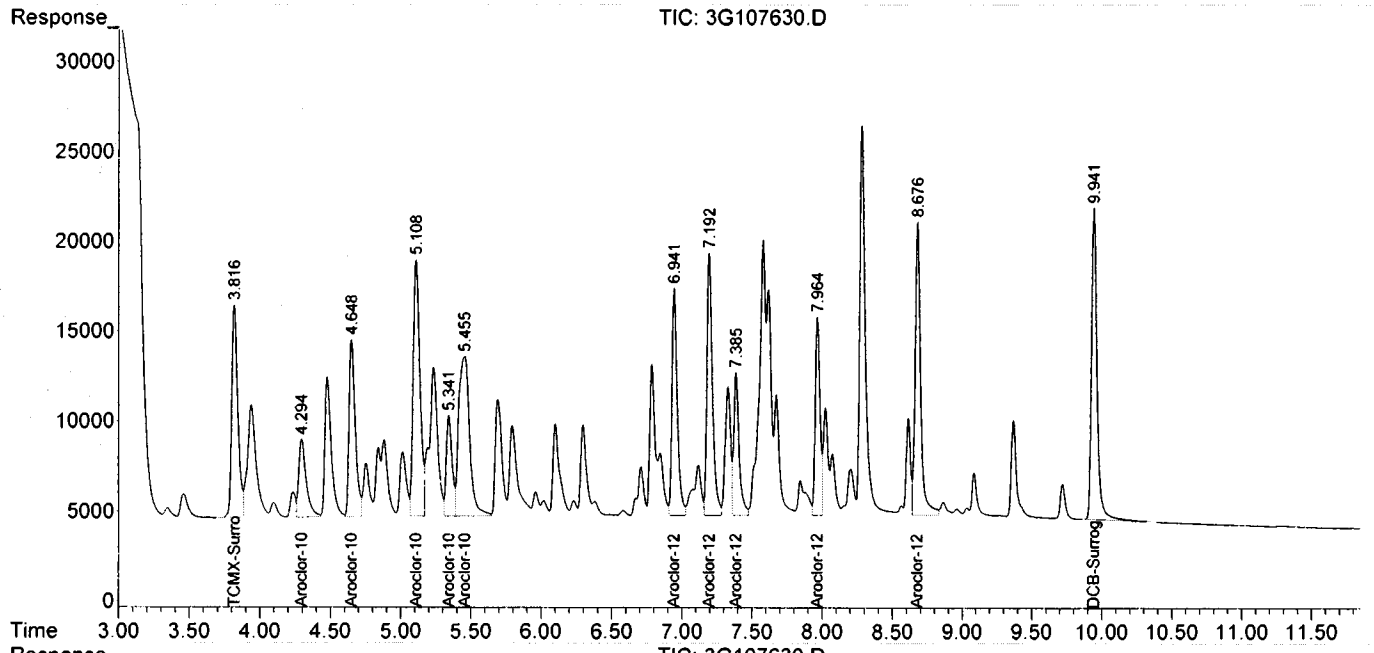
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2	
Target Compounds							
1)TCMX-Surrogate	3.817	3.858	350147	668653	67.005	68.696	
2)Aroclor-1016 {1}	4.295	4.446	159263	166090	975.525	691.128	#
3)Aroclor-1016 {2}	4.648	4.861	304372	493216	1079.191	1074.611	
4)Aroclor-1016 {3}	5.109	5.240	484523	833241	856.852	850.855	
5)Aroclor-1016 {4}	5.342	5.560	162042	508614	912.009	1229.261	#
6)Aroclor-1016 {5}	5.455	5.929	472849	259311	1144.683	876.694	
7)Aroclor-1260 {1}	6.943	7.227	335568	581847	973.110	945.380	
8)Aroclor-1260 {2}	7.193	7.310	398291	653501	988.400	931.133	
9)Aroclor-1260 {3}	7.386	7.937	214765	296537	978.112	876.701	
10)Aroclor-1260 {4}	7.965	8.294	256789	560057	865.195	900.244	
11)Aroclor-1260 {5}	8.677	8.987	445324	545097	922.746	929.907	m
45)DCB-Surrogate	9.942	10.639	472690	863895	77.437	78.498	

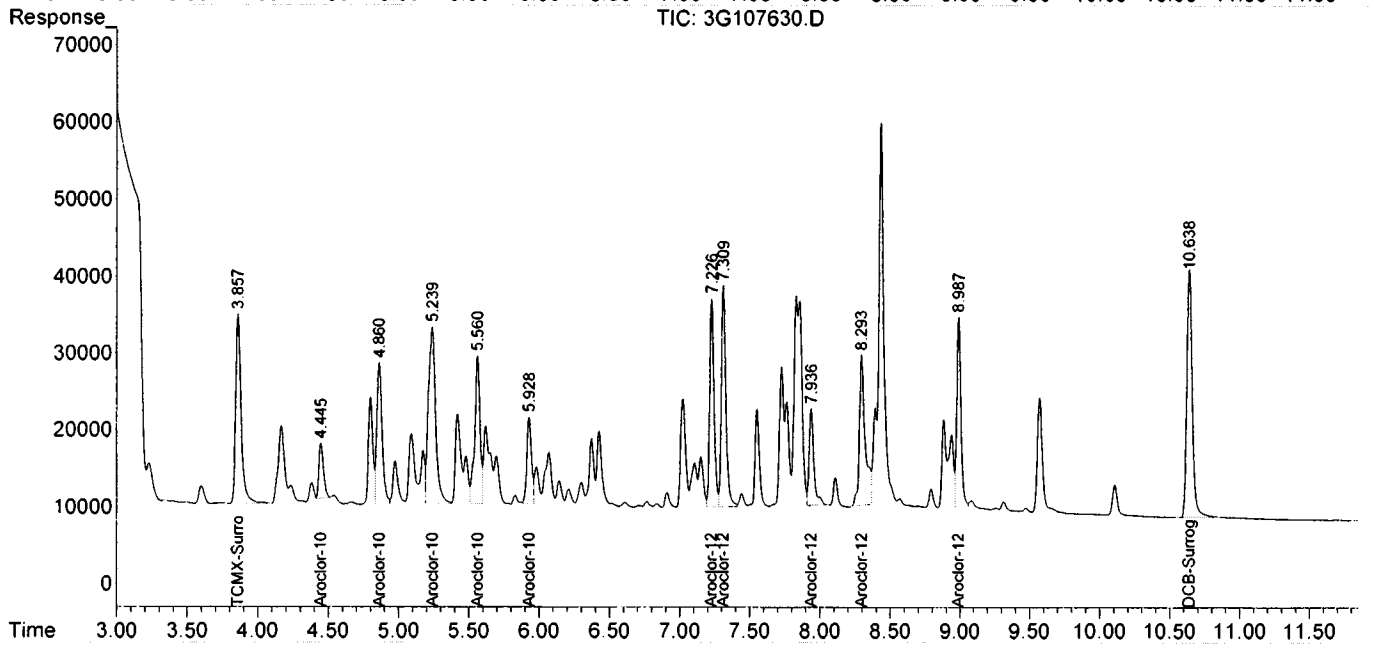
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107630.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 19:50
Operator : ZM/MLC/KD
Sample : AD02764-004(MS:AD02764-003)
Misc : A,PCB
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 21:23:40 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PCB REPORT

Sample Number: AD02764-005(MSD:AD
Client Id: RMW-4_02212018 MSD
Data File: 3G107631.D
Analysis Date: 02/28/18 20:06
Date Rec/Extracted: 02/22/18-02/28/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 980ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	**Aroclor-1016**	**0.26**	**5.0**	11097-69-1	Aroclor-1254	0.26	U
11104-28-2	Aroclor-1221	0.26	U	**11096-82-5**	**Aroclor-1260**	**0.26**	**4.8**
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	**1336-36-3**	**Aroclor (Total)**	**0.26**	**9.8**

Worksheet #: 457381 *Total Target Concentration* 9.8 ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107631.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 20:06
Operator : ZM/MLC/KD
Sample : AD02764-005(MSD:AD02764-003)
Misc : A,PCB
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 21:25:38 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

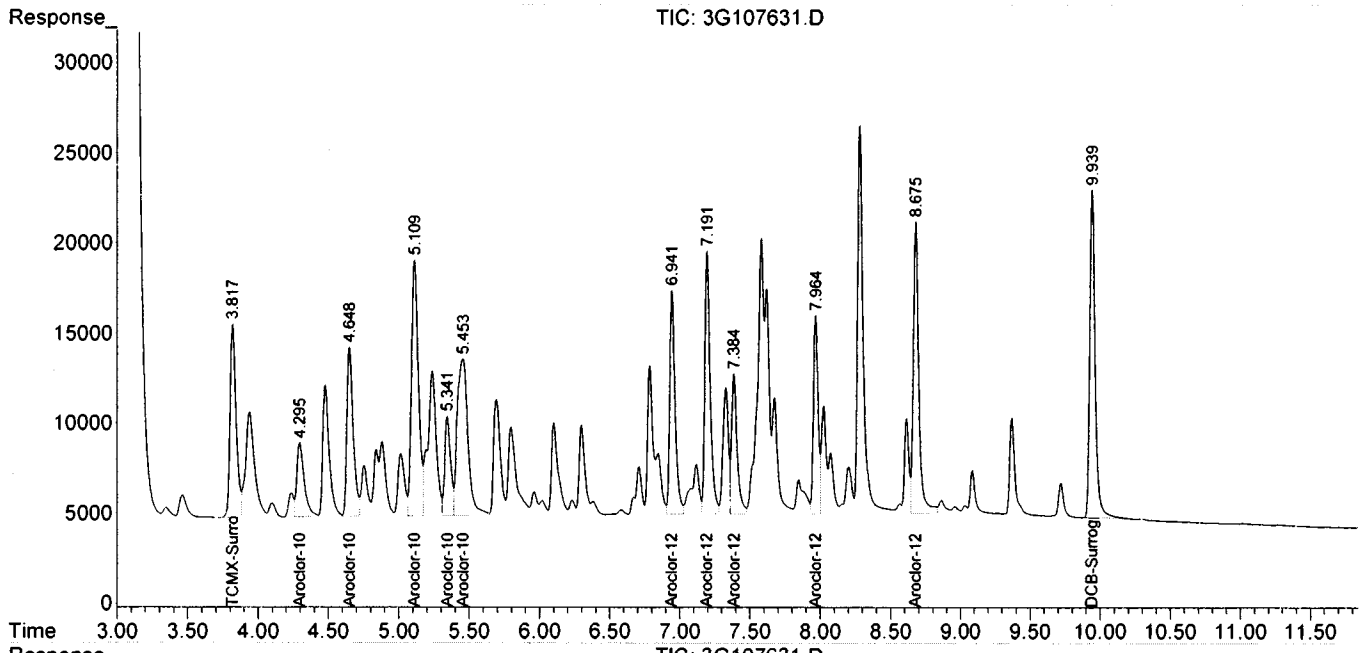
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.818	3.859	325385	609838	62.266	62.653
2)Aroclor-1016 {1}	4.295	4.447	152953	162719	936.875	676.607 #
3)Aroclor-1016 {2}	4.649	4.861	296514	478960	1049.775	1041.296
4)Aroclor-1016 {3}	5.109	5.239	487994	839375	863.216	857.425
5)Aroclor-1016 {4}	5.342	5.561	161431	503024	908.570	1214.780 #
6)Aroclor-1016 {5}	5.454	5.929	462141	267972	1118.762	907.295
7)Aroclor-1260 {1}	6.941	7.227	333902	578037	968.057	938.843
8)Aroclor-1260 {2}	7.192	7.309	397335	653084	985.924	930.509
9)Aroclor-1260 {3}	7.385	7.937	213633	309265	972.957	916.011
10)Aroclor-1260 {4}	7.964	8.293	255840	576167	861.998	926.894m
11)Aroclor-1260 {5}	8.676	8.988	442177	536409	916.225	914.883m
45)DCB-Surrogate	9.940	10.638	492537	917595	80.688	83.489

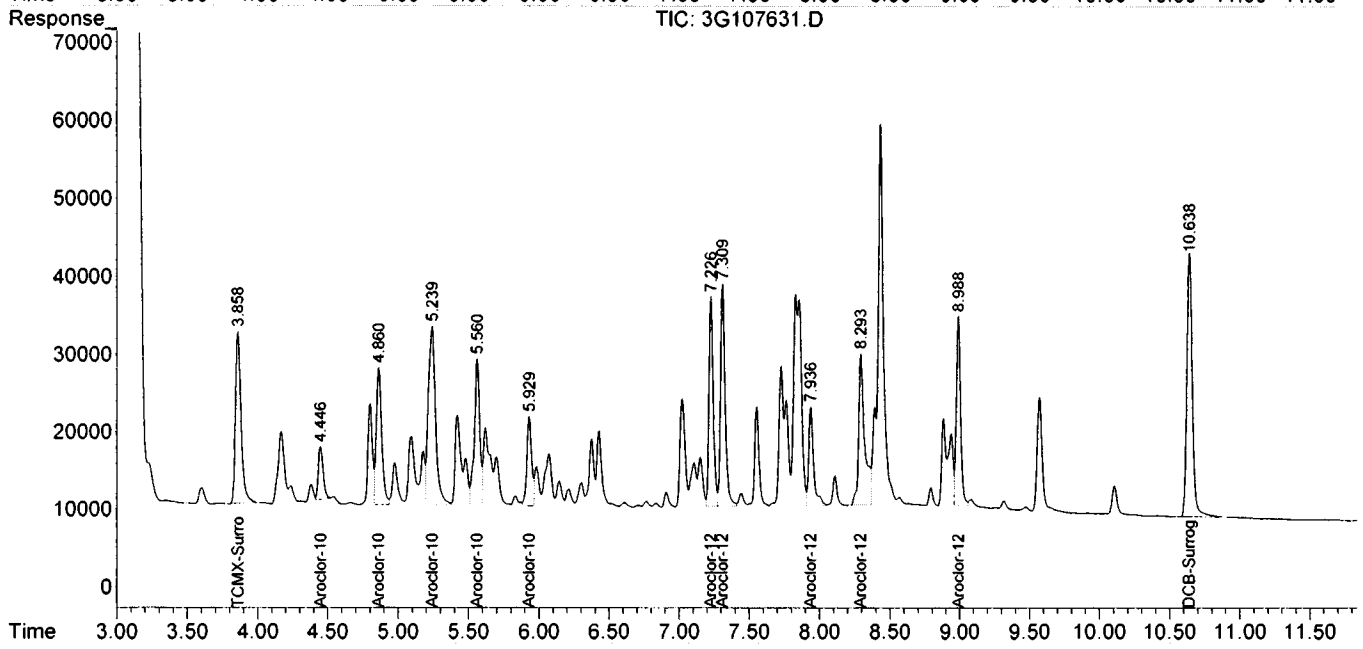
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107631.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 20:06
Operator : ZM/MLC/KD
Sample : AD02764-005(MSD:AD02764-003)
Misc : A,PCB
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 21:25:38 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PCB REPORT

Sample Number: AD02764-006
Client Id: DUP
Data File: 3G107635.D
Analysis Date: 02/28/18 21:07
Date Rec/Extracted: 02/22/18-02/28/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 980ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.26	U	11097-69-1	Aroclor-1254	0.26	U
11104-28-2	Aroclor-1221	0.26	U	11096-82-5	Aroclor-1260	0.26	U
11141-16-5	Aroclor-1232	0.26	U	37324-23-5	Aroclor-1262	0.26	U
53469-21-9	Aroclor-1242	0.26	U	11100-14-4	Aroclor-1268	0.26	U
12672-29-6	Aroclor-1248	0.26	U	1336-36-3	Aroclor (Total)	0.26	U

Worksheet #: 457381

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107635.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 21:07
Operator : ZM/MLC/KD
Sample : AD02764-006
Misc : A,PCB
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 21:26:18 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

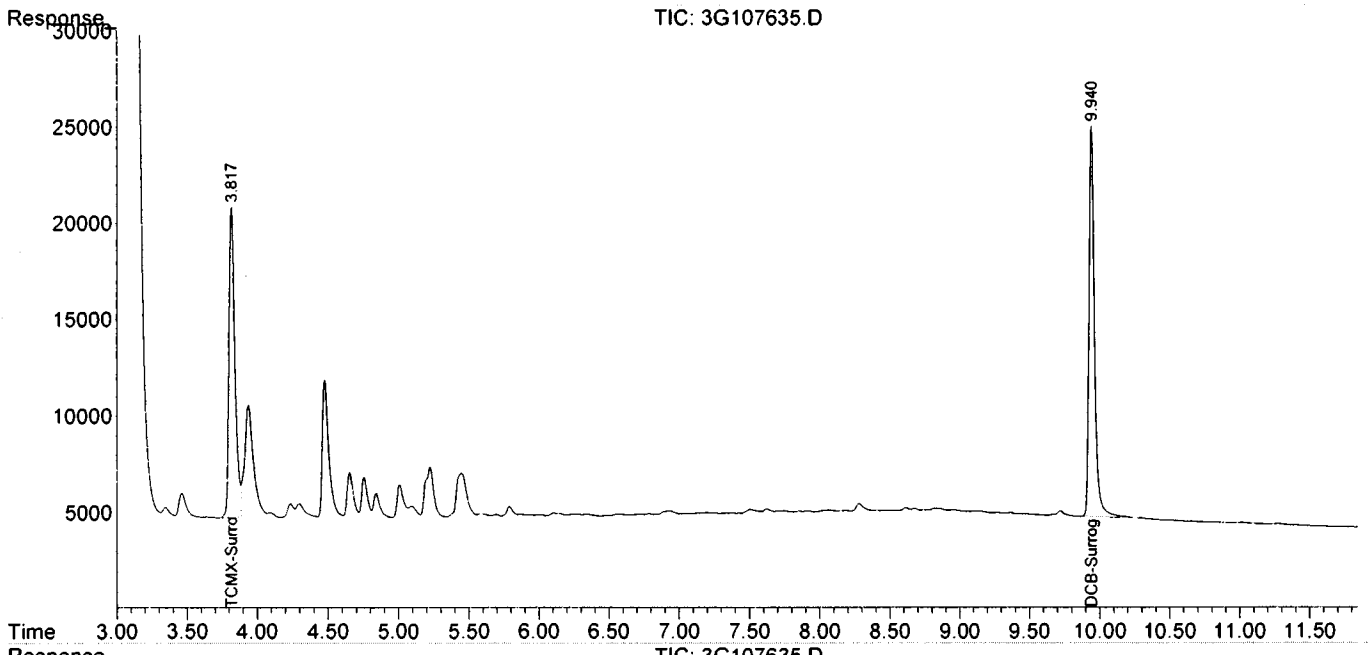
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.817	3.858	477240	870273	91.326	89.409
45)DCB-Surrogate	9.941	10.638	553496	1024726	90.674	93.486

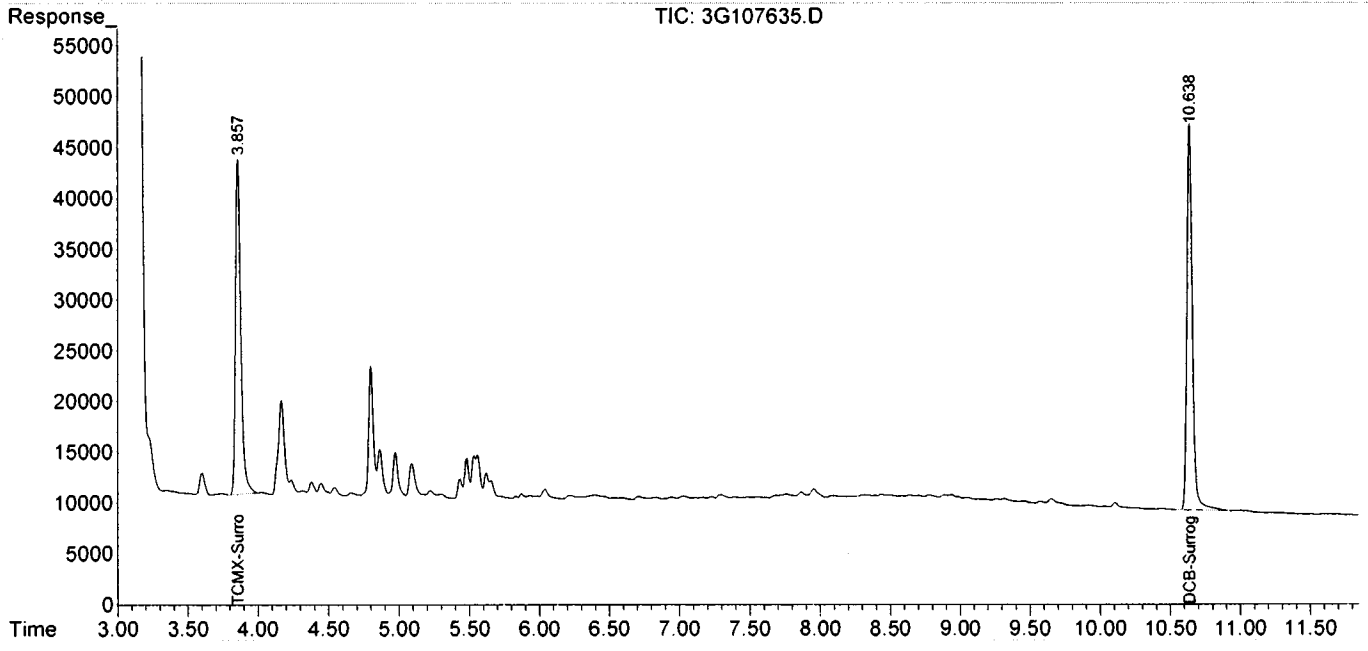
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107635.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 21:07
Operator : ZM/MLC/KD
Sample : AD02764-006
Misc : A,PCB
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 21:26:18 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PCB REPORT

Sample Number: AD02764-007
Client Id: FB_02212018
Data File: 3G107636.D
Analysis Date: 02/28/18 21:22
Date Rec/Extracted: 02/22/18-02/28/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 457381

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107636.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 21:22
Operator : ZM/MLC/KD
Sample : AD02764-007
Misc : A,PCB
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 21:40:59 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

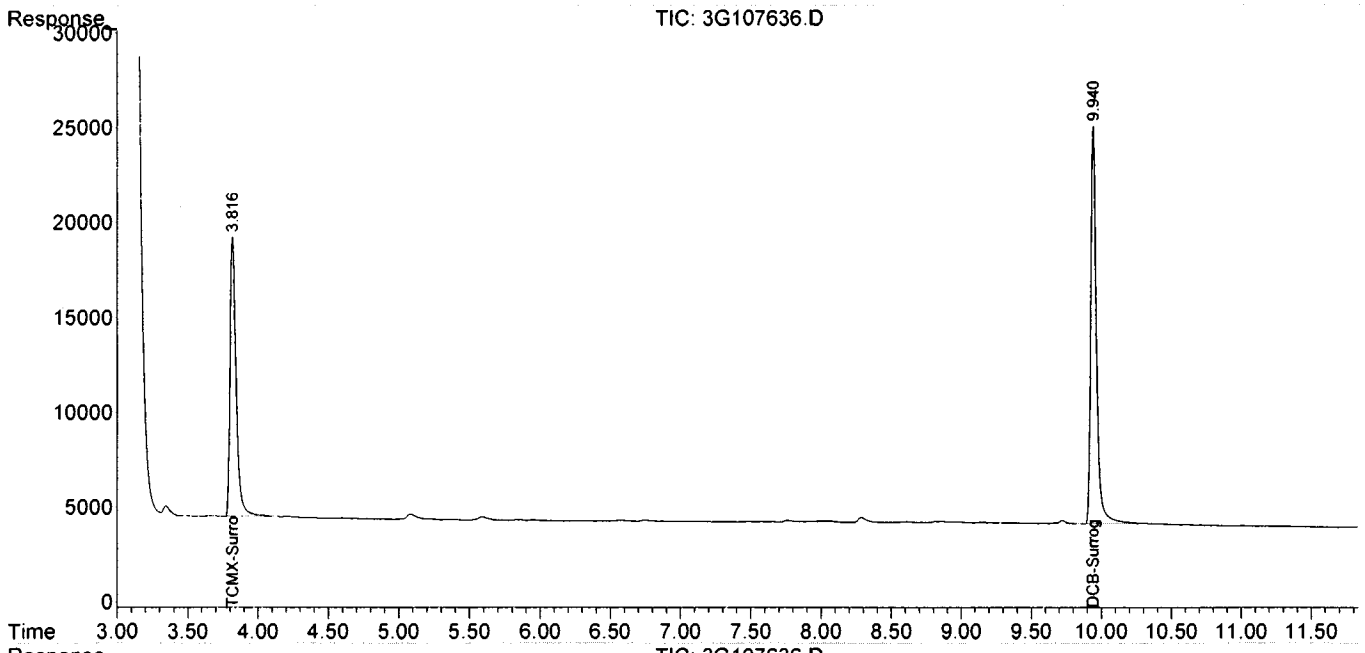
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.817	3.858	444727	807259	85.104	82.936
45)DCB-Surrogate	9.941	10.640	590645	1090227	96.760	99.625

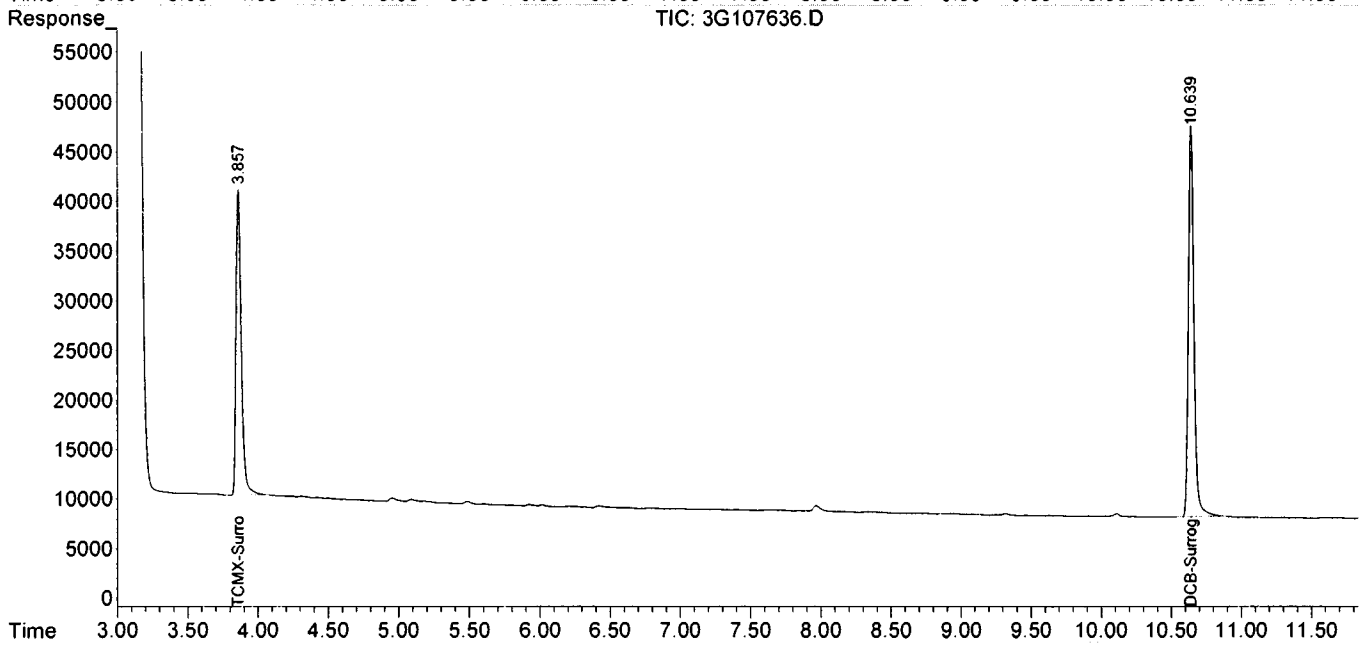
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107636.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 21:22
Operator : ZM/MLC/KD
Sample : AD02764-007
Misc : A,PCB
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 21:40:59 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





GC PCB Data
Standards Data

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G106709.D	CAL 1660@50PPB	02/05/18 12:23	2	3G106710.D	CAL 1660@200PPB	02/05/18 12:38
3	3G106711.D	CAL 1660@500PPB	02/05/18 12:52	4	3G106712.D	CAL 1660@1000PPB	02/05/18 13:07
5	3G106713.D	CAL 1660@2000PPB	02/05/18 13:22	6	3G106714.D	CAL 1660@4000PPB	02/05/18 13:37
7	3G106704.D	CAL 3268@500PPB	02/05/18 11:09	8	3G106705.D	CAL 1242@500PPB	02/05/18 11:23
9	3G106706.D	CAL 1248@500PPB	02/05/18 11:38	10	3G106707.D	CAL 2154@500PPB	02/05/18 11:53

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
TCMX-Surrogate	1	0	Avg	0.4721	0.5181	0.5273	0.5296	0.5442	0.5438	----	----	0.523	3.81	1.00	1.00	5.1	5.00	20.00	50.00	100.0	200.0	400.0		
Aroclor-1016	1	1	Avg	0.0181	0.0173	0.0172	0.0161	0.0151	0.0139	----	----	0.0163	4.30	0.998	1.00	9.6	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	2	Qua	0.0344	0.0336	0.0311	0.0285	0.0264	0.0241	----	----	0.0297	4.65	0.997	1.00	14	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	3	Qua	0.0691	0.0652	0.0600	0.0565	0.0533	0.0492	----	----	0.0589	5.11	0.998	1.00	13	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	4	Avg	0.0175	0.0194	0.0182	0.0179	0.0172	0.0163	----	----	0.0178	5.34	0.999	1.00	5.8	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	5	Avg	0.0429	0.0459	0.0424	0.0420	0.0389	0.0354	----	----	0.0413	5.46	0.997	1.00	8.7	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	1	Qua	0.0420	0.0410	0.0383	0.0346	0.0323	0.0298	----	----	0.0364	6.95	0.998	1.00	13	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	2	Qua	0.0489	0.0473	0.0445	0.0405	0.0379	0.0351	----	----	0.0424	7.20	0.998	1.00	13	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	3	Avg	0.0218	0.0236	0.0231	0.0215	0.0209	0.0206	----	----	0.0220	7.39	1.00	1.00	5.5	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	4	Avg	0.0329	0.0321	0.0309	0.0285	0.0274	0.0260	----	----	0.0297	7.97	0.999	1.00	9.3	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	5	Avg	0.0503	0.0498	0.0499	0.0471	0.0464	0.0459	----	----	0.0483	8.68	1.00	1.00	4.1	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1221	1	1	Avg	----	----	----	----	----	----	----	----	0.00799	4.10	-1	-1	Lvl=10	500.0							
Aroclor-1221	1	2	Avg	----	----	----	----	----	----	----	----	0.00463	4.23	-1	-1	Lvl=10	500.0							
Aroclor-1221	1	3	Avg	----	----	----	----	----	----	----	----	0.0236	4.29	-1	-1	Lvl=10	500.0							
Aroclor-1232	1	1	Avg	----	----	----	----	----	----	----	----	0.0166	4.29	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	2	Avg	----	----	----	----	----	----	----	----	0.0142	4.65	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	3	Avg	----	----	----	----	----	----	----	----	0.0257	5.11	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	4	Avg	----	----	----	----	----	----	----	----	0.0116	5.24	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	5	Avg	----	----	----	----	----	----	----	----	0.0122	5.69	-1	-1	Lvl=7	500.0							
Aroclor-1242	1	1	Avg	----	----	----	----	----	----	----	----	0.0145	4.29	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	2	Avg	----	----	----	----	----	----	----	----	0.0240	4.65	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	3	Avg	----	----	----	----	----	----	----	----	0.0477	5.11	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	4	Avg	----	----	----	----	----	----	----	----	0.0332	5.46	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	5	Avg	----	----	----	----	----	----	----	----	0.0202	5.69	-1	-1	Lvl=8	500.0							
Aroclor-1248	1	1	Avg	----	----	----	----	----	----	----	----	0.0129	4.65	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	2	Avg	----	----	----	----	----	----	----	----	0.0293	5.11	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	3	Avg	----	----	----	----	----	----	----	----	0.0570	5.45	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	4	Avg	----	----	----	----	----	----	----	----	0.0260	5.80	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	5	Avg	----	----	----	----	----	----	----	----	0.0354	6.38	-1	-1	Lvl=9	500.0							
Aroclor-1254	1	1	Avg	----	----	----	----	----	----	----	----	0.0143	6.58	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	2	Avg	----	----	----	----	----	----	----	----	0.0564	6.79	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	3	Avg	----	----	----	----	----	----	----	----	0.0291	6.95	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	4	Avg	----	----	----	----	----	----	----	----	0.0411	7.07	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	5	Avg	----	----	----	----	----	----	----	----	0.0176	7.45	-1	-1	Lvl=10	500.0							
Aroclor-1262	1	1	Avg	----	----	----	----	----	----	----	----	0.0468	7.62	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	2	Avg	----	----	----	----	----	----	----	----	0.0280	8.62	-1	-1	Lvl=11	500.0							

Avg Rsd Col 1: 9.01 Avg Rsd Col 2: 13.15

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

80222222 0270

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G106709.D	CAL 1660@50PPB	02/05/18 12:23	2	3G106710.D	CAL 1660@200PPB	02/05/18 12:38
3	3G106711.D	CAL 1660@500PPB	02/05/18 12:52	4	3G106712.D	CAL 1660@1000PPB	02/05/18 13:07
5	3G106713.D	CAL 1660@2000PPB	02/05/18 13:22	6	3G106714.D	CAL 1660@4000PPB	02/05/18 13:37
7	3G106704.D	CAL 3268@500PPB	02/05/18 11:09	8	3G106705.D	CAL 1242@500PPB	02/05/18 11:23
9	3G106706.D	CAL 1248@500PPB	02/05/18 11:38	10	3G106707.D	CAL 2154@500PPB	02/05/18 11:53

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aroclor-1262	1	3	Avg	----	----	----	----	----	----	----	----	0.0553	8.68	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	4	Avg	----	----	----	----	----	----	----	----	0.0258	9.37	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	5	Avg	----	----	----	----	----	----	----	----	0.00940	9.72	-1	-1	Lvl=11	500.0							
Aroclor-1268	1	1	Avg	----	----	----	----	----	----	----	----	0.00903	7.97	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	2	Avg	----	----	----	----	----	----	----	----	0.00889	8.28	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	3	Avg	----	----	----	----	----	----	----	----	0.0700	8.86	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	4	Avg	----	----	----	----	----	----	----	----	0.0194	8.96	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	5	Avg	----	----	----	----	----	----	----	----	0.223	9.72	-1	-1	Lvl=7	500.0							
DCB-Surrogate	1	0	Avg	0.6721	0.6458	0.6243	0.5884	0.5742	0.5575	----	----	0.610	9.94	1.00	1.00	7.3	5.00	20.00	50.00	100.0	200.0	400.0		
TCMX-Surrogate	2	0	Avg	0.9629	1.0006	1.0023	0.9712	0.9691	0.9338	----	----	0.973	3.85	1.00	1.00	2.6	5.00	20.00	50.00	100.0	200.0	400.0		
Aroclor-1016	2	1	Qua	0.0272	0.0275	0.0256	0.0237	0.0222	0.0200	----	----	0.0244	4.44	0.997	1.00	12	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	2	Qua	0.0539	0.0566	0.0532	0.0469	0.0420	0.0372	----	----	0.0484	4.86	0.994	0.999	16	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	3	Qua	0.1318	0.1168	0.1107	0.0981	0.0898	0.0813	----	----	0.105	5.24	0.996	1.00	18	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	4	Qua	0.0489	0.0506	0.0479	0.0424	0.0387	0.0351	----	----	0.0440	5.56	0.996	1.00	14	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	5	Qua	0.0330	0.0345	0.0334	0.0297	0.0274	0.0252	----	----	0.0306	5.93	0.997	1.00	12	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	1	Qua	0.0835	0.0764	0.0685	0.0624	0.0566	0.0510	----	----	0.0664	7.23	0.996	1.00	18	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	2	Qua	0.0899	0.0841	0.0758	0.0714	0.0649	0.0589	----	----	0.0742	7.31	0.997	1.00	16	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	3	Qua	0.0438	0.0449	0.0383	0.0339	0.0313	0.0289	----	----	0.0369	7.94	0.998	1.00	18	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	4	Qua	0.0719	0.0731	0.0675	0.0623	0.0593	0.0564	----	----	0.0651	8.29	0.999	1.00	11	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	5	Qua	0.0729	0.0672	0.0633	0.0589	0.0568	0.0560	----	----	0.0626	8.99	1.00	1.00	11	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1221	2	1	Avg	----	----	----	----	----	----	----	----	0.0144	4.23	-1	-1	Lvl=10	500.0							
Aroclor-1221	2	2	Avg	----	----	----	----	----	----	----	----	0.00915	4.38	-1	-1	Lvl=10	500.0							
Aroclor-1221	2	3	Avg	----	----	----	----	----	----	----	----	0.0309	4.44	-1	-1	Lvl=10	500.0							
Aroclor-1232	2	1	Avg	----	----	----	----	----	----	----	----	0.0232	4.44	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	2	Avg	----	----	----	----	----	----	----	----	0.0240	4.86	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	3	Avg	----	----	----	----	----	----	----	----	0.0471	5.24	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	4	Avg	----	----	----	----	----	----	----	----	0.0179	5.93	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	5	Avg	----	----	----	----	----	----	----	----	0.0143	6.07	-1	-1	Lvl=7	500.0							
Aroclor-1242	2	1	Avg	----	----	----	----	----	----	----	----	0.0219	4.44	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	2	Avg	----	----	----	----	----	----	----	----	0.0370	4.86	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	3	Avg	----	----	----	----	----	----	----	----	0.0830	5.24	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	4	Avg	----	----	----	----	----	----	----	----	0.0357	5.56	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	5	Avg	----	----	----	----	----	----	----	----	0.0288	5.93	-1	-1	Lvl=8	500.0							
Aroclor-1248	2	1	Avg	----	----	----	----	----	----	----	----	0.0199	4.86	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	2	Avg	----	----	----	----	----	----	----	----	0.0595	5.24	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	3	Avg	----	----	----	----	----	----	----	----	0.0450	5.56	-1	-1	Lvl=9	500.0							

Avg Rsd Col 1: 9.01 Avg Rsd Col 2: 13.15

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

8022222 0271

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G106709.D	CAL 1660@50PPB	02/05/18 12:23	2	3G106710.D	CAL 1660@200PPB	02/05/18 12:38
3	3G106711.D	CAL 1660@500PPB	02/05/18 12:52	4	3G106712.D	CAL 1660@1000PPB	02/05/18 13:07
5	3G106713.D	CAL 1660@2000PPB	02/05/18 13:22	6	3G106714.D	CAL 1660@4000PPB	02/05/18 13:37
7	3G106704.D	CAL 3268@500PPB	02/05/18 11:09	8	3G106705.D	CAL 1242@500PPB	02/05/18 11:23
9	3G106706.D	CAL 1248@500PPB	02/05/18 11:38	10	3G106707.D	CAL 2154@500PPB	02/05/18 11:53

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aroclor-1248	2	4	Ava	----	----	----	----	----	----	----	----	0.0413	6.07	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	5	Ava	----	----	----	----	----	----	----	----	0.0546	6.21	-1	-1	Lvl=9	500.0							
Aroclor-1254	2	1	Ava	----	----	----	----	----	----	----	----	0.0681	6.42	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	2	Ava	----	----	----	----	----	----	----	----	0.0224	6.76	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	3	Ava	----	----	----	----	----	----	----	----	0.0611	7.16	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	4	Ava	----	----	----	----	----	----	----	----	0.0259	7.67	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	5	Ava	----	----	----	----	----	----	----	----	0.0297	8.35	-1	-1	Lvl=10	500.0							
Aroclor-1262	2	1	Ava	----	----	----	----	----	----	----	----	0.0636	7.73	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	2	Ava	----	----	----	----	----	----	----	----	0.0572	8.88	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	3	Ava	----	----	----	----	----	----	----	----	0.0625	8.99	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	4	Ava	----	----	----	----	----	----	----	----	0.0682	9.57	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	5	Ava	----	----	----	----	----	----	----	----	0.0189	10.11	-1	-1	Lvl=11	500.0							
Aroclor-1268	2	1	Ava	----	----	----	----	----	----	----	----	0.0124	8.39	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	2	Ava	----	----	----	----	----	----	----	----	0.0199	8.43	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	3	Ava	----	----	----	----	----	----	----	----	0.136	9.31	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	4	Ava	----	----	----	----	----	----	----	----	0.0352	9.47	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	5	Ava	----	----	----	----	----	----	----	----	0.433	10.10	-1	-1	Lvl=7	500.0							
DCB-Surrogate	2	0	Qua	1.3145	1.2456	1.1774	1.0971	1.0535	1.0072	----	----	1.15	10.64	0.999	1.00	10	5.00	20.00	50.00	100.0	200.0	400.0		

Avg Rsd Col 1: 9.01 Avg Rsd Col 2: 13.15

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 : Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106709.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 12:23
Operator : ZM/MLC/KD
Sample : CAL 1660@50PPB
Misc : S,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:05:01 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.812	3.852	23609	48150	4.543	5.102m
2)Aroclor-1016 {1}	4.296	4.444	9093	13605	57.457m	57.673m
3)Aroclor-1016 {2}	4.648	4.858	17233	26993	59.721m	58.004
4)Aroclor-1016 {3}	5.112	5.238	34592	65941	60.543	68.944m
5)Aroclor-1016 {4}	5.346	5.560	8753	24479	49.648	59.052m
6)Aroclor-1016 {5}	5.458	5.927	21471	16526	51.495	56.477m
7)Aroclor-1260 {1}	6.947	7.226	21041	41782	59.589	67.513
8)Aroclor-1260 {2}	7.198	7.310	24472	44977	59.633	64.530
9)Aroclor-1260 {3}	7.391	7.935	10919	21927	49.368	66.613m#
10)Aroclor-1260 {4}	7.969	8.294	16489	35962	55.958m	57.691
11)Aroclor-1260 {5}	8.682	8.990	25152	36486	51.918	58.907m
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106709.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 12:23
Operator : ZM/MLC/KD
Sample : CAL 1660@50PPB
Misc : S,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:05:01 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

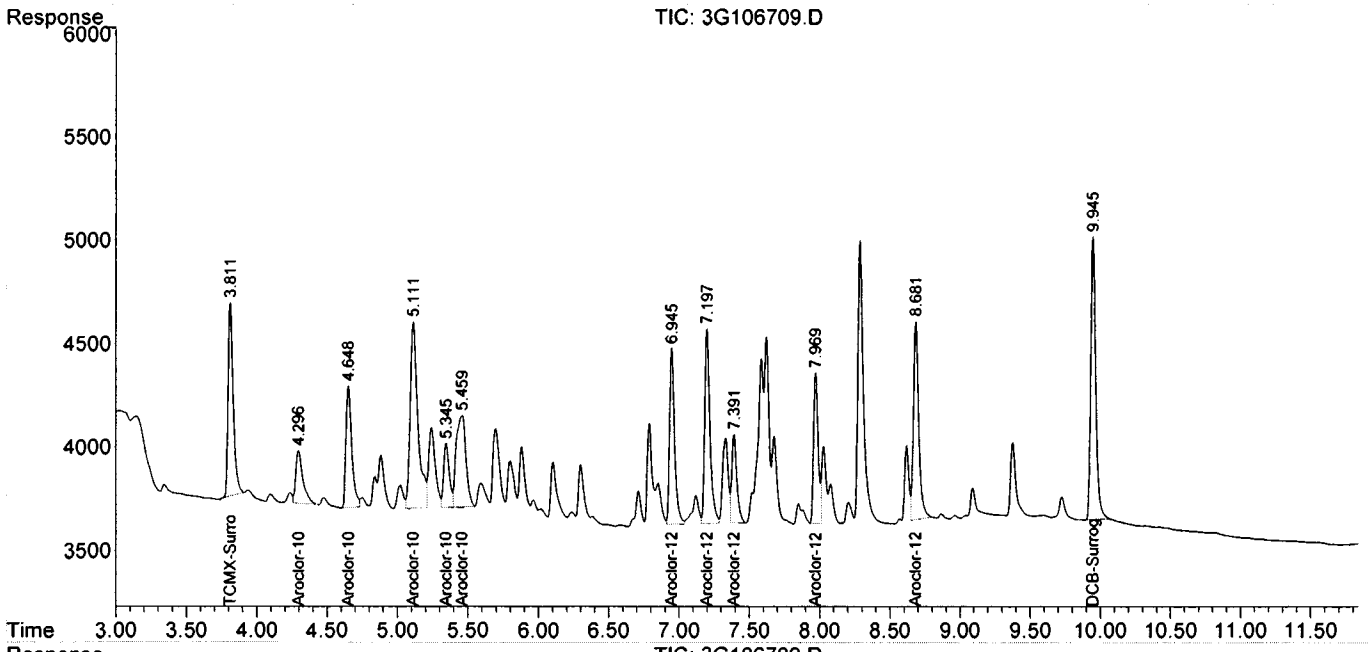
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D.	N.D.
45)DCB-Surrogate	9.946	10.640	33605	65726	5.399	5.869

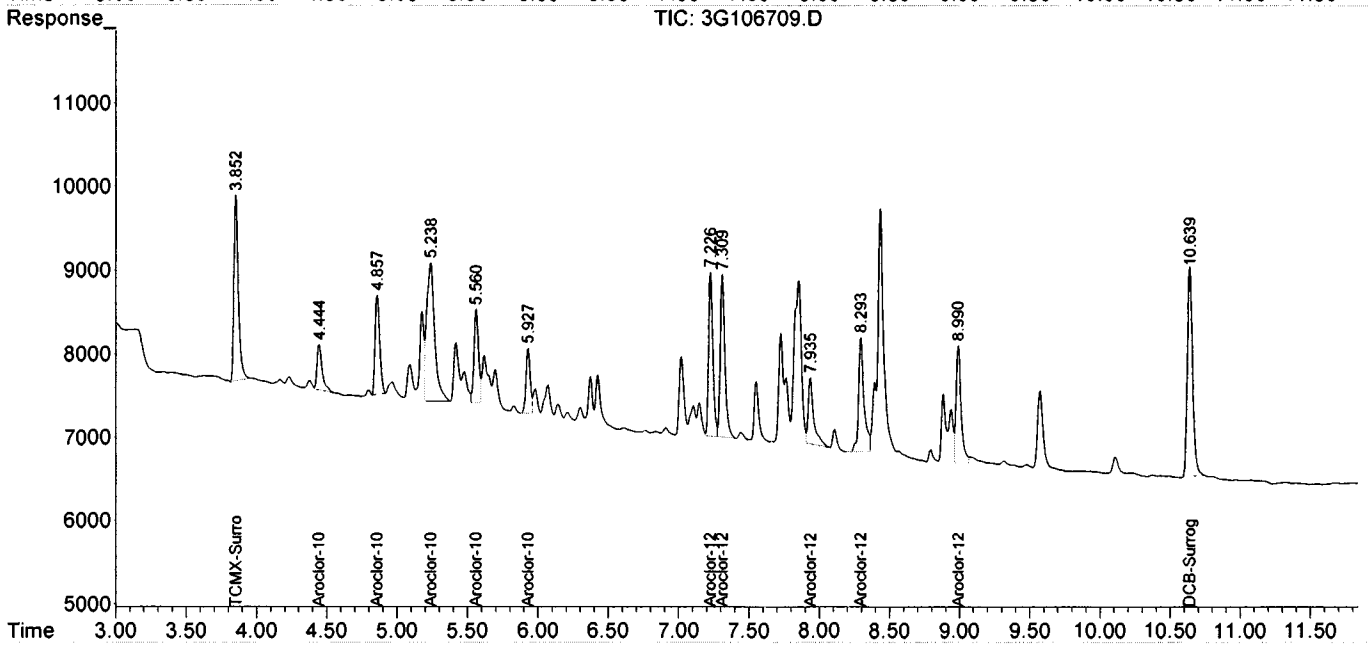
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106709.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 12:23
Operator : ZM/MLC/KD
Sample : CAL 1660@50PPB
Misc : S,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:05:01 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106710.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 12:38
Operator : ZM/MLC/KD
Sample : CAL 1660@200PPB
Misc : S,PCB
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:59:58 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 12:23:37 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.812	3.853	103631	200135	19.942m	21.207
2)Aroclor-1016 {1}	4.296	4.445	34687	55181	219.173	235.761
3)Aroclor-1016 {2}	4.649	4.857	67268	113222	234.760	245.737m
4)Aroclor-1016 {3}	5.112	5.239	130569	233630	229.686	246.009
5)Aroclor-1016 {4}	5.345	5.561	38823	101313	220.210	246.239
6)Aroclor-1016 {5}	5.459	5.928	91854	69055	220.305	237.499
7)Aroclor-1260 {1}	6.946	7.227	82020	152798	233.699	248.895
8)Aroclor-1260 {2}	7.197	7.310	94769	168331	232.232	243.391
9)Aroclor-1260 {3}	7.390	7.936	47252	89978	213.640	275.364 #
10)Aroclor-1260 {4}	7.970	8.293	64368	146389	218.435	235.752m
11)Aroclor-1260 {5}	8.681	8.989	99656	134456	205.709	217.080m
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106710.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 12:38
Operator : ZM/MLC/KD
Sample : CAL 1660@200PPB
Misc : S,PCB
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:59:58 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 12:23:37 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

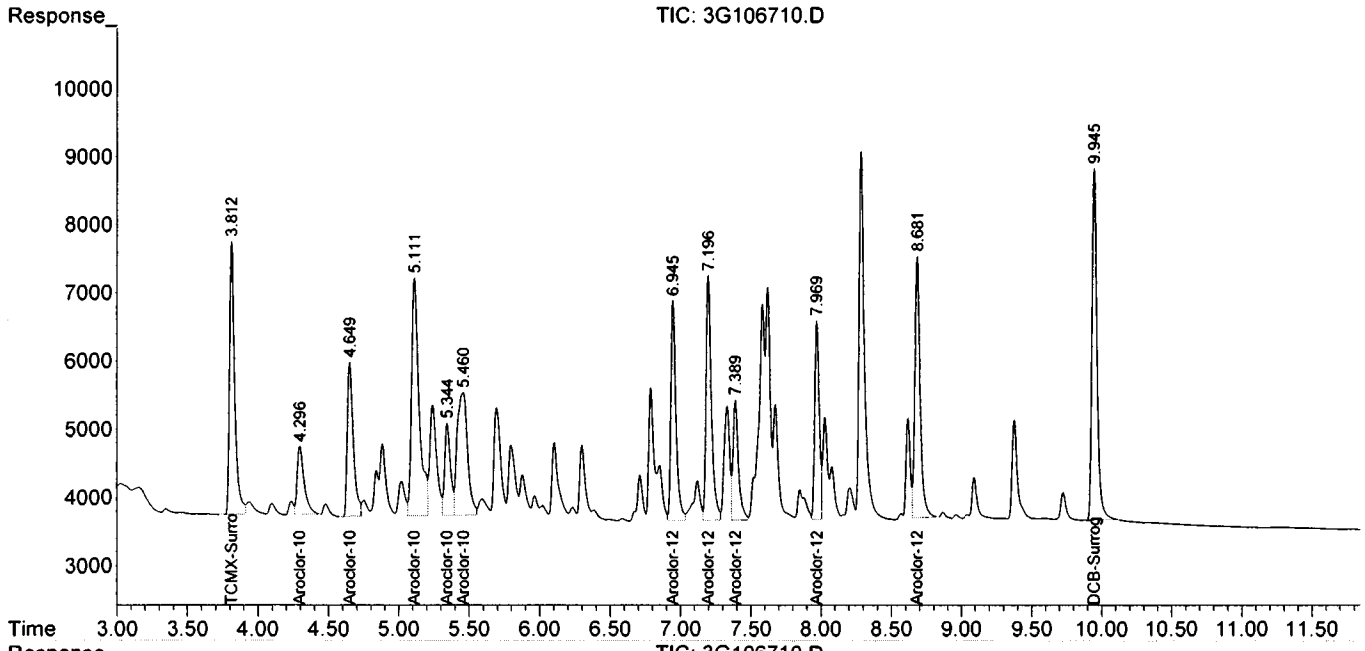
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	9.946	10.640	129162	249130	20.752	22.318

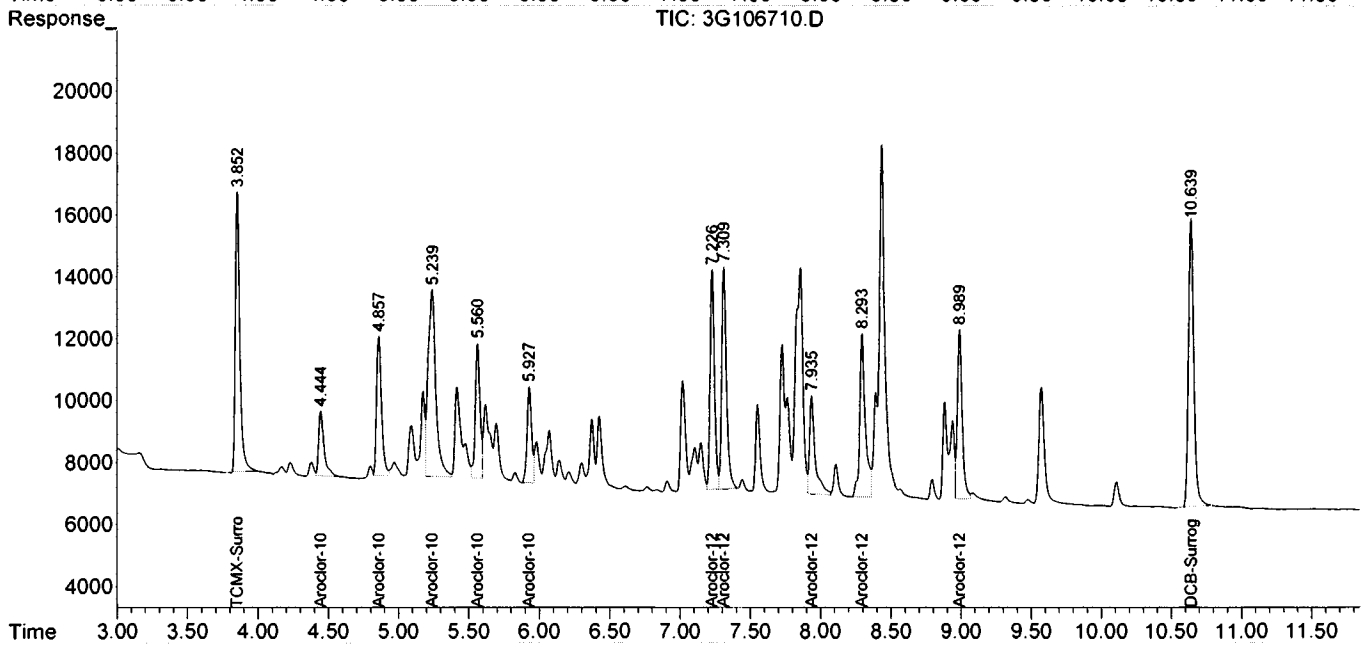
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106710.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 12:38
Operator : ZM/MLC/KD
Sample : CAL 1660@200PPB
Misc : S,PCB
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:59:58 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 12:23:37 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106711.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 12:52
Operator : ZM/MLC/KD
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:05:46 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.811	3.853	263669	501183	50.739	53.108
2)Aroclor-1016 {1}	4.296	4.444	86058	128206	543.765	555.597
3)Aroclor-1016 {2}	4.649	4.858	155603	266225	550.043	588.609
4)Aroclor-1016 {3}	5.111	5.238	300457	553720	533.420	591.271
5)Aroclor-1016 {4}	5.345	5.560	91085	239921	516.654	591.332
6)Aroclor-1016 {5}	5.459	5.928	212161	167234	508.851	582.258
7)Aroclor-1260 {1}	6.946	7.226	191883	342641	552.927	566.137
8)Aroclor-1260 {2}	7.197	7.309	222954	379133	552.086	555.750
9)Aroclor-1260 {3}	7.390	7.937	115829	191939	523.695	594.066
10)Aroclor-1260 {4}	7.970	8.293	154616	337739	524.695	547.626m
11)Aroclor-1260 {5}	8.681	8.988	249672	316598	515.371	511.149m
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106711.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 12:52
Operator : ZM/MLC/KD
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:05:46 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

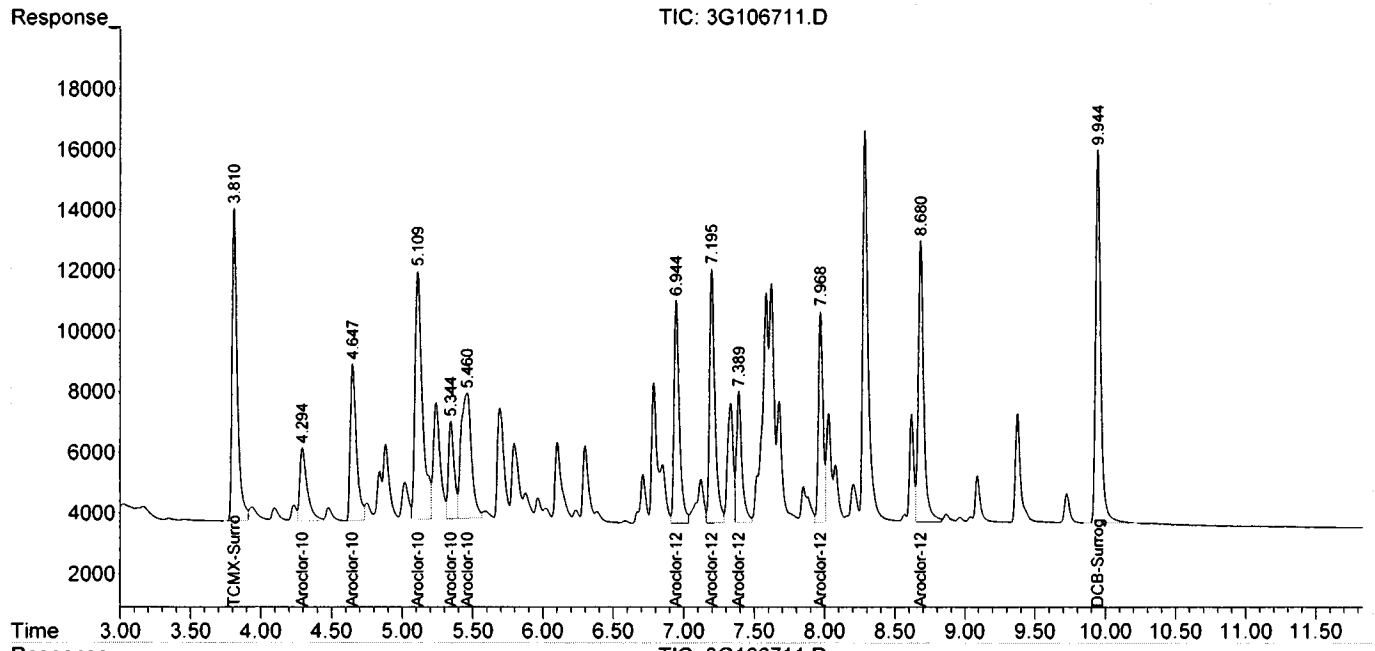
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	9.945	10.639	312185	588709	50.158	53.056

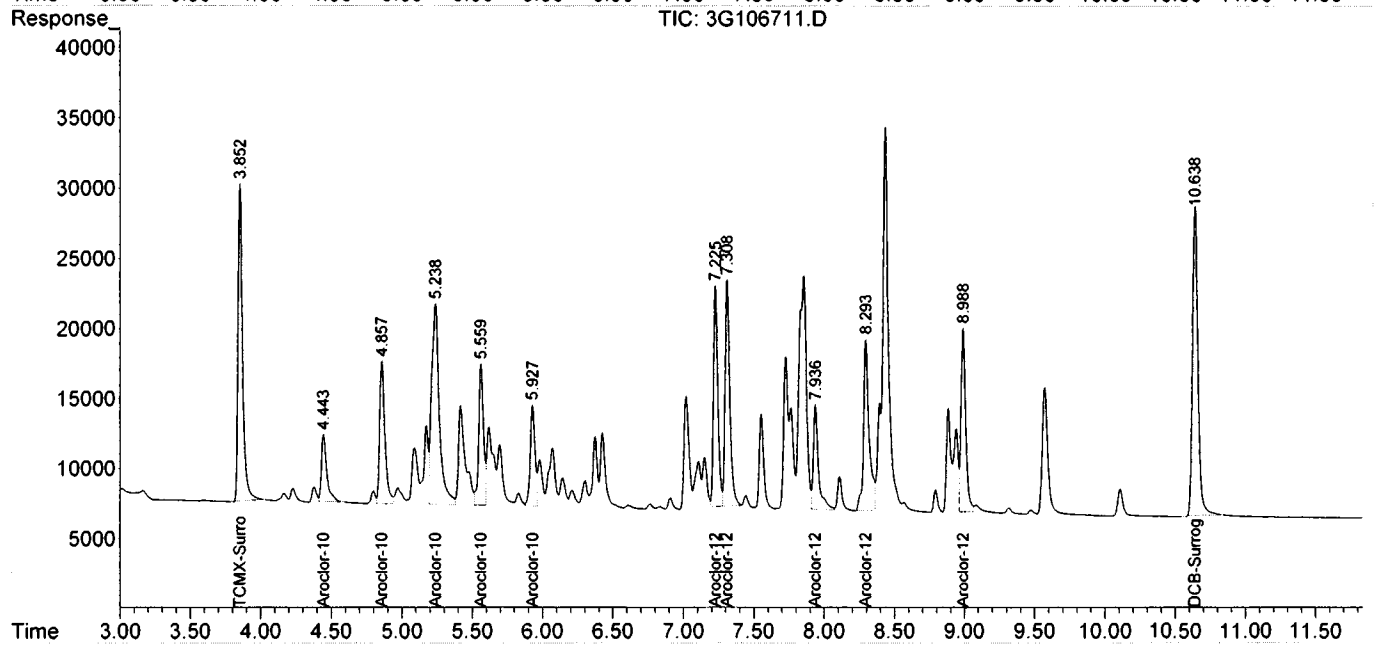
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106711.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 12:52
Operator : ZM/MLC/KD
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:05:46 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106712.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 13:07
Operator : ZM/MLC/KD
Sample : CAL 1660@1000PPB
Misc : S,PCB
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:21:20 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.811	3.853	529692	971207	101.932	102.913
2)Aroclor-1016 {1}	4.294	4.444	161036	236965	1017.516	1050.141
3)Aroclor-1016 {2}	4.648	4.857	285603	469581	1029.783	1065.945
4)Aroclor-1016 {3}	5.109	5.238	565374	981659	1018.778	1069.066
5)Aroclor-1016 {4}	5.344	5.559	178988	424060	1015.261	1065.817
6)Aroclor-1016 {5}	5.460	5.927	420943	297430	1009.597	1053.313
7)Aroclor-1260 {1}	6.945	7.225	346630	624243	1015.522	1054.712
8)Aroclor-1260 {2}	7.195	7.309	405744	714114	1020.406	1071.153
9)Aroclor-1260 {3}	7.390	7.936	215403	339071	973.896	1067.448
10)Aroclor-1260 {4}	7.969	8.293	285349	623707	968.344	1021.925m
11)Aroclor-1260 {5}	8.680	8.988	471087	589935	972.416	952.451m
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106712.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 13:07
Operator : ZM/MLC/KD
Sample : CAL 1660@1000PPB
Misc : S,PCB
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:21:20 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

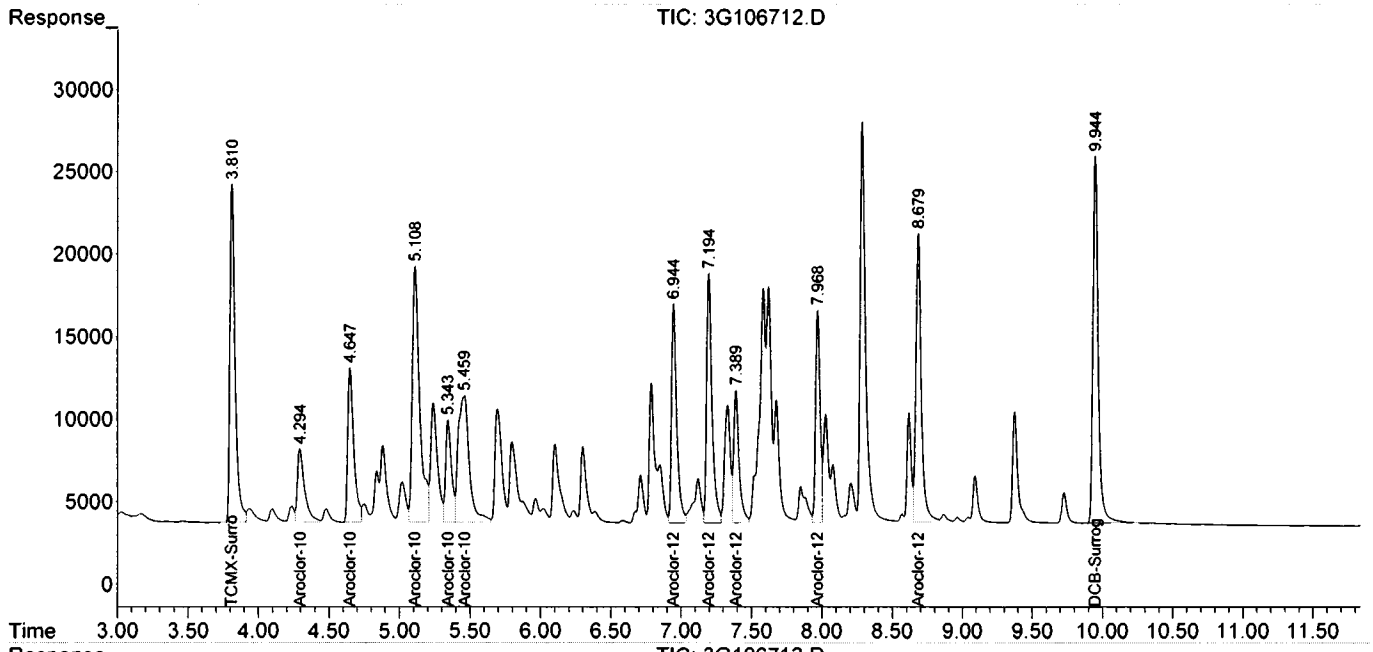
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	9.945	10.639	588464	1097112	94.547	99.788

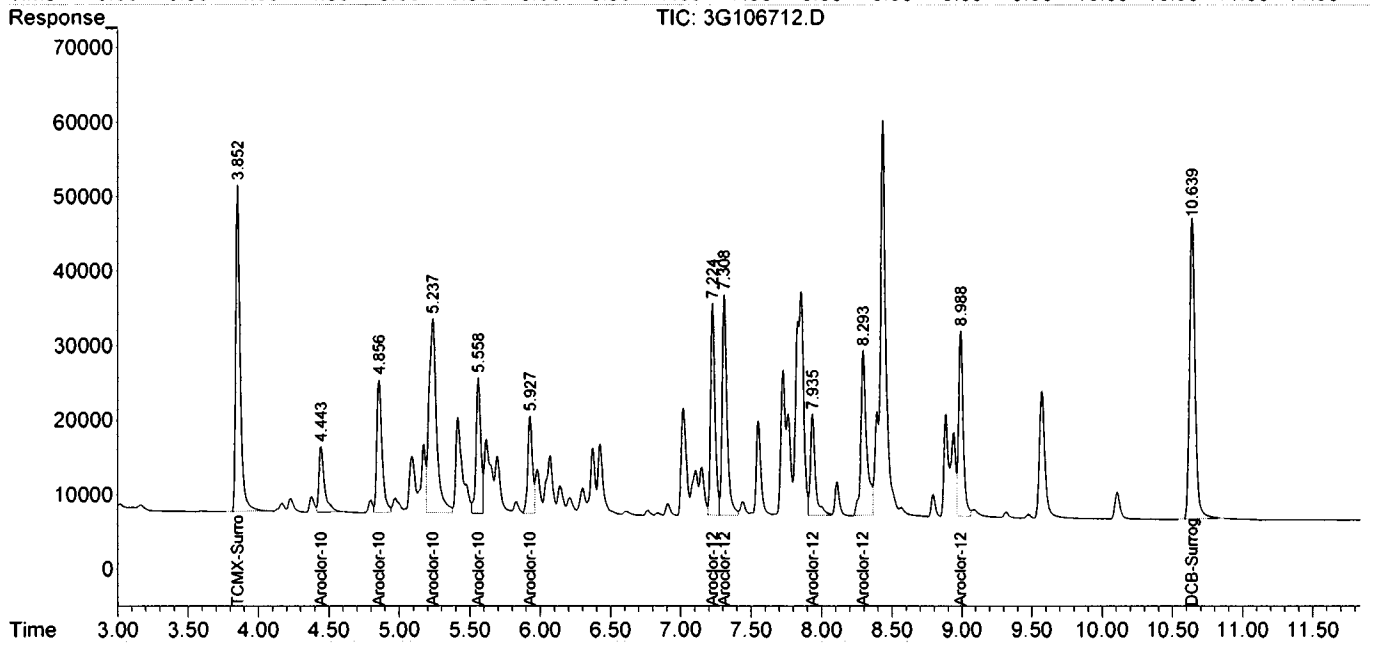
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106712.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 13:07
Operator : ZM/MLC/KD
Sample : CAL 1660@1000PPB
Misc : S,PCB
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:21:20 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106713.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 13:22
Operator : ZM/MLC/KD
Sample : CAL 1660@2000PPB
Misc : S,PCB
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:38:09 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.811	3.852	1088480	1938194	209.462	205.379
2)Aroclor-1016 {1}	4.292	4.442	303358	444624	1916.787	2066.423
3)Aroclor-1016 {2}	4.646	4.856	529797	840943	1989.954	2016.114
4)Aroclor-1016 {3}	5.107	5.236	1066360	1797818	1980.296	2040.334
5)Aroclor-1016 {4}	5.342	5.558	344759	774974	1955.551	2029.121
6)Aroclor-1016 {5}	5.460	5.926	779380	548588	1869.279	2013.059
7)Aroclor-1260 {1}	6.943	7.224	647020	1132493	1962.676	2000.958
8)Aroclor-1260 {2}	7.193	7.307	758680	1299568	1970.420	2038.382
9)Aroclor-1260 {3}	7.388	7.935	418398	626216	1891.696	2043.702
10)Aroclor-1260 {4}	7.967	8.292	548508	1185985	1861.386	1985.553m
11)Aroclor-1260 {5}	8.679	8.987	929083	1137828	1917.807	1837.027m
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106713.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 13:22
Operator : ZM/MLC/KD
Sample : CAL 1660@2000PPB
Misc : S,PCB
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:38:09 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

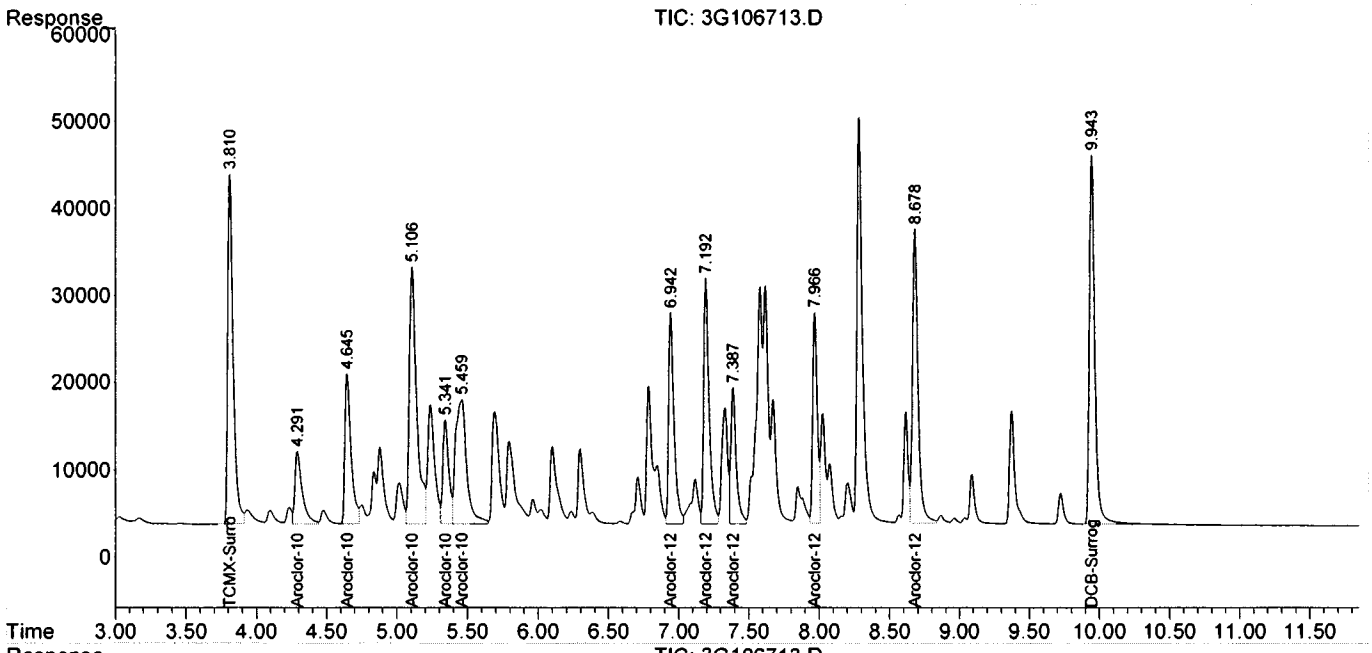
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	9.944	10.638	1148507	2107179	184.528	195.351

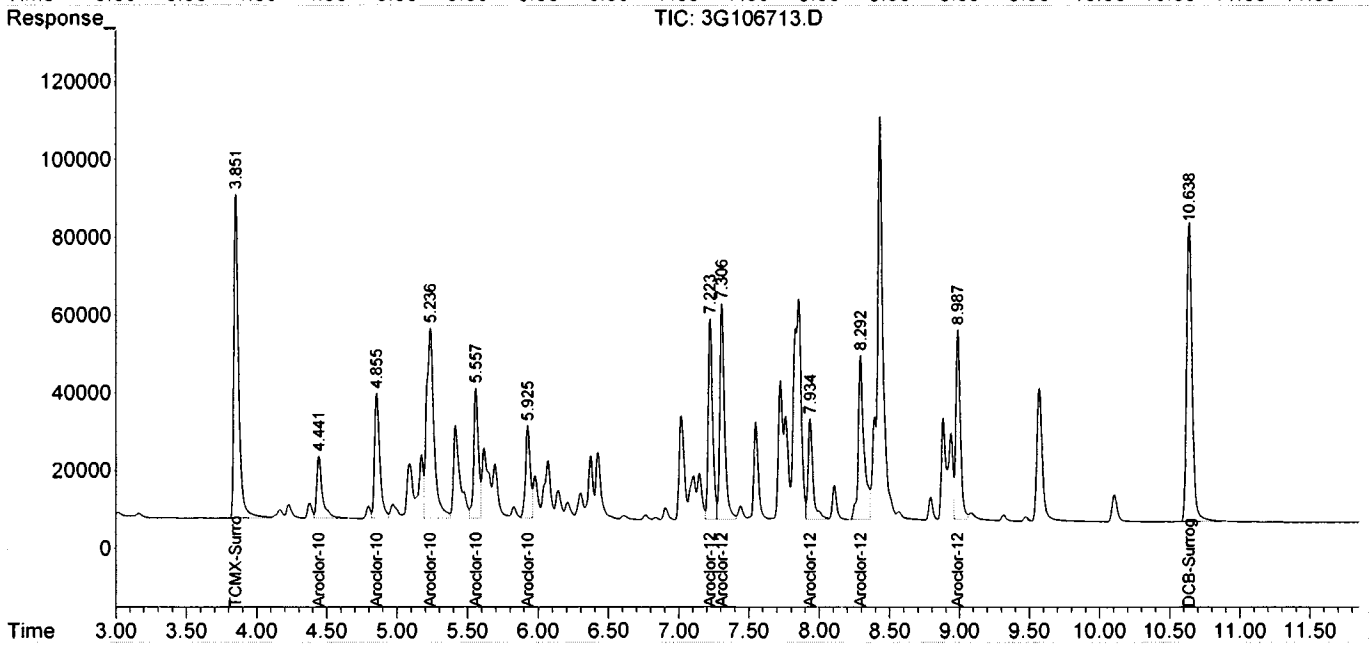
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106713.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 13:22
Operator : ZM/MLC/KD
Sample : CAL 1660@2000PPB
Misc : S,PCB
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:38:09 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106714.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 13:37
Operator : ZM/MLC/KD
Sample : CAL 1660@4000PPB
Misc : S,PCB
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:50:12 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.810	3.851	2175218	3735220	418.590	395.800
2)Aroclor-1016 {1}	4.291	4.441	557677	802820	3523.714	4143.982
3)Aroclor-1016 {2}	4.645	4.856	963903	1491455	3959.271	4069.415
4)Aroclor-1016 {3}	5.106	5.235	1971674	3253693	3899.561	4043.812
5)Aroclor-1016 {4}	5.341	5.557	653384	1405841	3706.141	4030.621
6)Aroclor-1016 {5}	5.459	5.926	1419434	1009985	3404.396	4007.541
7)Aroclor-1260 {1}	6.943	7.224	1193430	2041671	3903.249	3991.333
8)Aroclor-1260 {2}	7.193	7.307	1405240	2356016	3910.966	4092.541
9)Aroclor-1260 {3}	7.388	7.935	826098	1158992	3735.023	4098.768
10)Aroclor-1260 {4}	7.968	8.292	1041328	2256587	3533.790	3953.964
11)Aroclor-1260 {5}	8.679	8.987	1837456	2242336	3792.866	3620.260
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106714.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 13:37
Operator : ZM/MLC/KD
Sample : CAL 1660@4000PPB
Misc : S,PCB
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:50:12 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

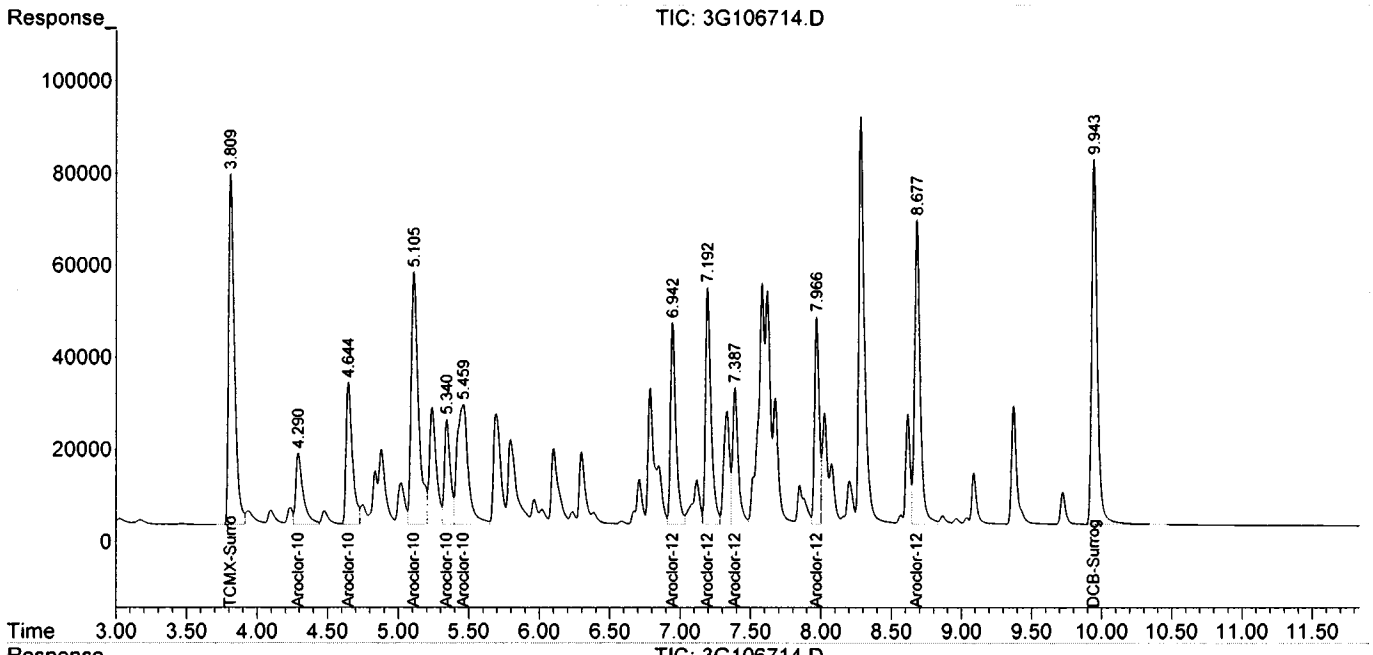
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	9.944	10.637	2230086	4029159	358.302	388.681

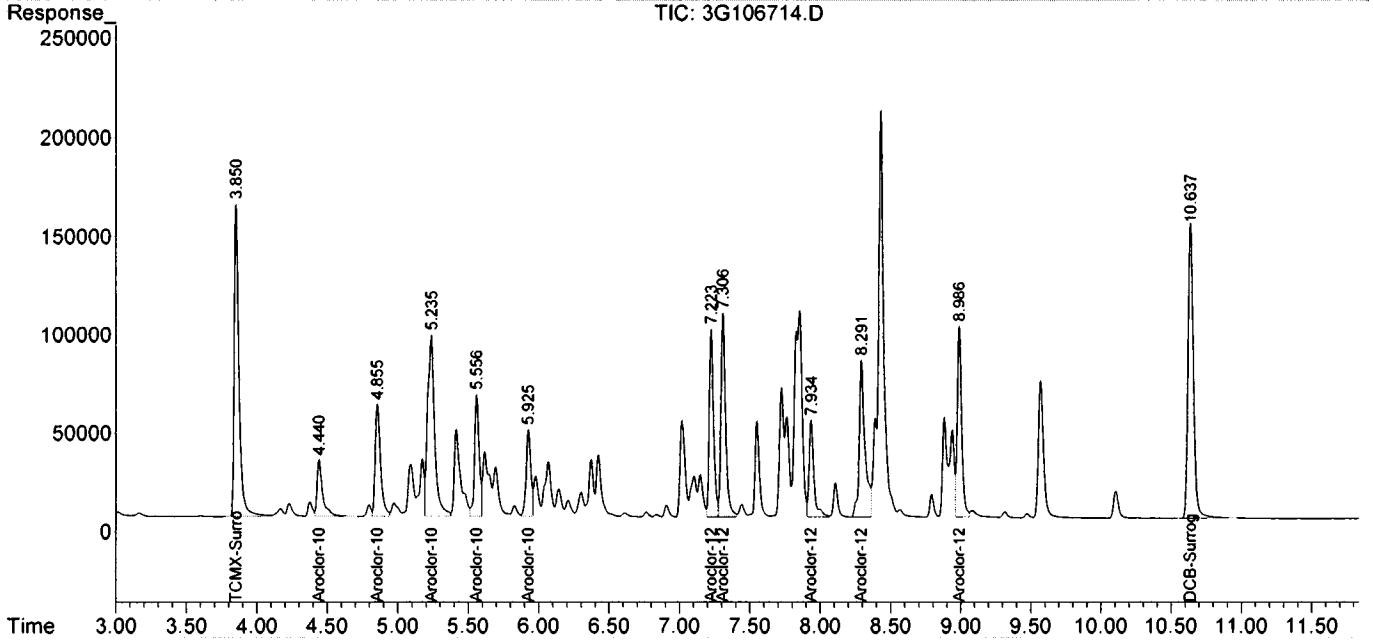
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106714.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 13:37
Operator : ZM/MLC/KD
Sample : CAL 1660@4000PPB
Misc : S,PCB
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:50:12 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106704.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 11:09
Operator : ZM/MLC/KD
Sample : CAL 3268@500PPB
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:23:32 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu Jan 11 12:28:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.812	3.852	274414	506045	52.807	53.623
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	4.294	4.442	82877	116055	522.622	478.848m
16)Aroclor-1232 {2}	4.649	4.856	70857	120037	527.648	500.804m
17)Aroclor-1232 {3}	5.110	5.238	128484	235582	496.054	542.806
18)Aroclor-1232 {4}	5.240	5.927	58206	89503	518.408	545.523
19)Aroclor-1232 {5}	5.692	6.068	61195	71345	518.470	549.742
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	7.973	8.387	45137	62067	472.911m	539.338
41)Aroclor-1268 {2}	8.283	8.432	44429	99515	565.101m	522.863
42)Aroclor-1268 {3}	8.861	9.314	349997	682083	506.678m	521.035

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106704.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 11:09
Operator : ZM/MLC/KD
Sample : CAL 3268@500PPB
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:23:32 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu Jan 11 12:28:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

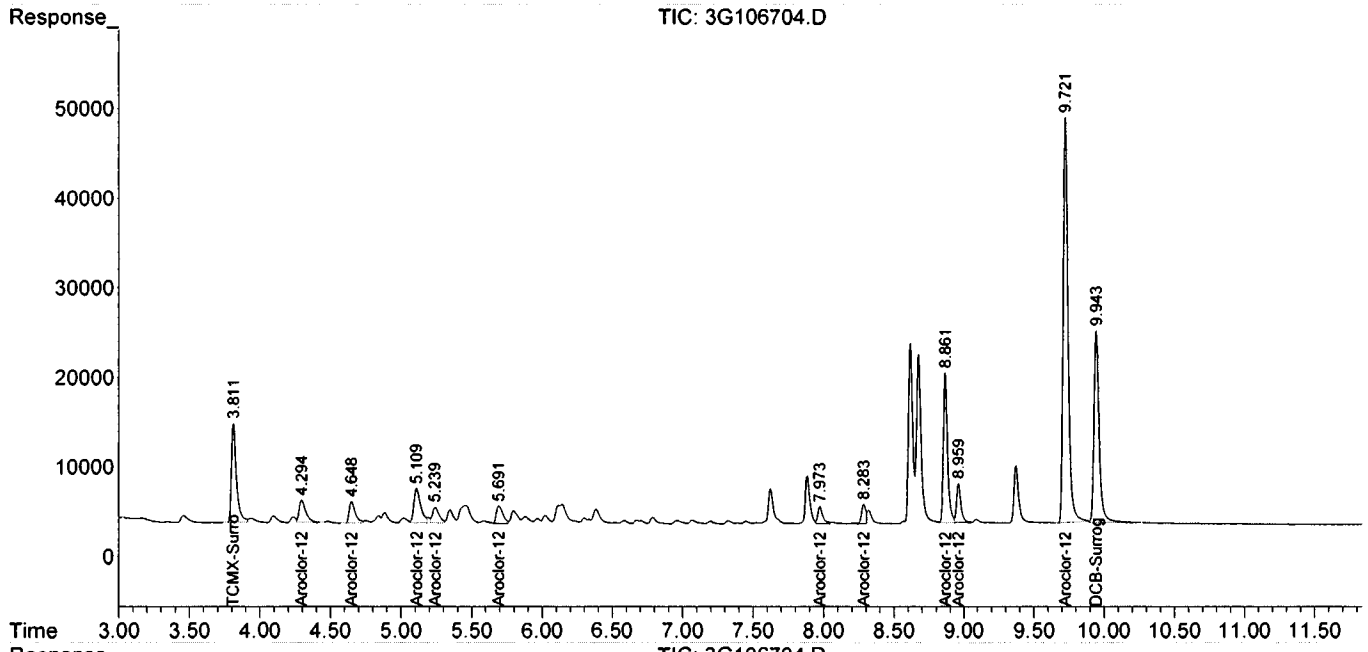
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	8.959	9.471	96929	175993	484.473m	512.030
44)Aroclor-1268 {5}	9.721	10.103	1114174	2164669	501.848m	516.084
45)DCB-Surrogate	9.943	10.637	548495	999125	88.125	90.712

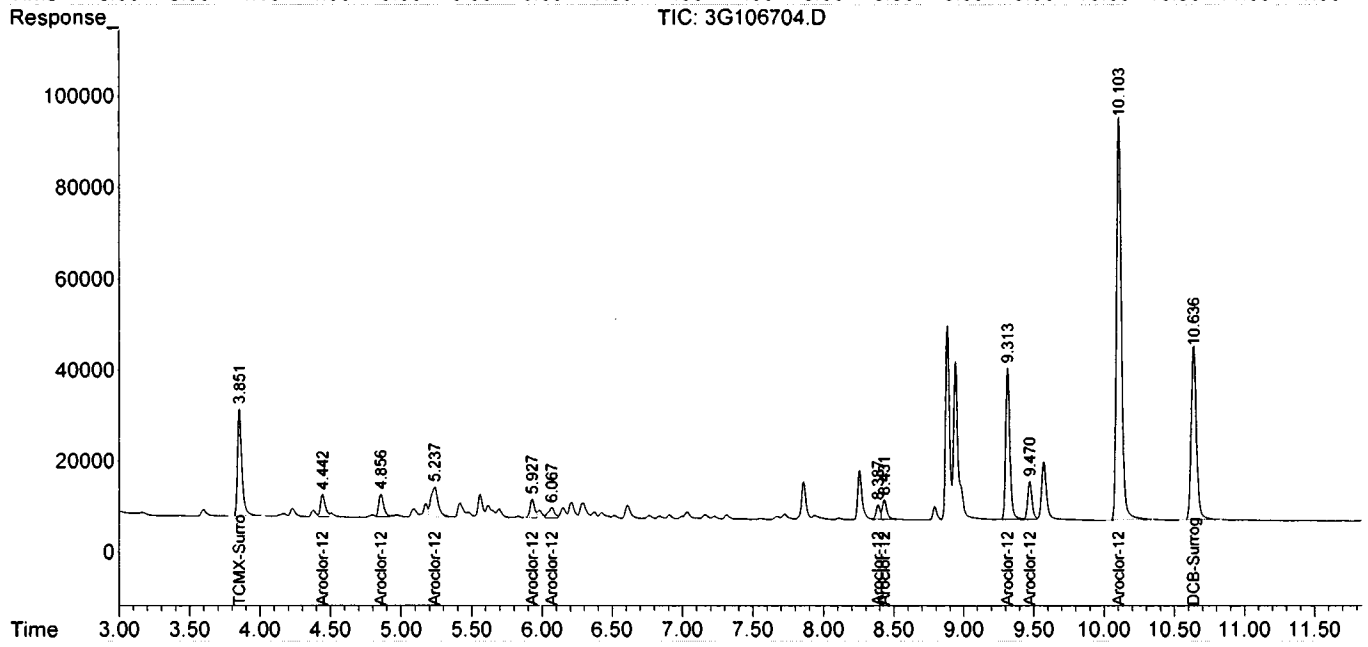
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106704.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 11:09
Operator : ZM/MLC/KD
Sample : CAL 3268@500PPB
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:23:32 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu Jan 11 12:28:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106705.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 11:23
Operator : ZM/MLC/KD
Sample : CAL 1242@500PPB
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:21:34 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu Jan 11 12:28:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.812	3.853	253989	480460	48.877	50.912
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	4.295	4.443	72287	109676	521.050	532.261
21)Aroclor-1242 {2}	4.648	4.857	120066	184788	503.877	463.677
22)Aroclor-1242 {3}	5.110	5.238	238758	414995	508.118	531.141
23)Aroclor-1242 {4}	5.459	5.559	165889	178277	496.014	519.902
24)Aroclor-1242 {5}	5.693	5.927	101159	144218	502.294	522.167
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D.	N.D.
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D.	N.D.
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D.	N.D.
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D.	N.D.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106705.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 11:23
Operator : ZM/MLC/KD
Sample : CAL 1242@500PPB
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:21:34 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu Jan 11 12:28:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

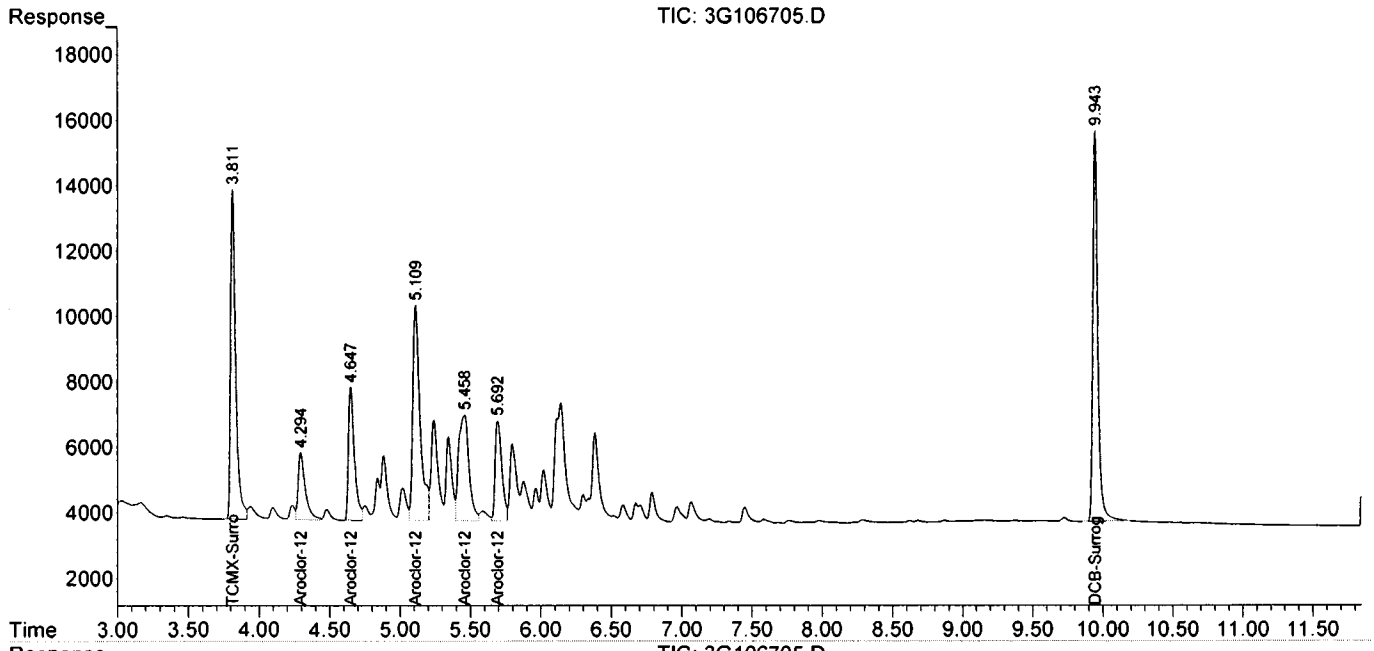
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D.	N.D.
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D.	N.D.
45)DCB-Surrogate	9.944	10.639	293792	552054	47.203	49.720

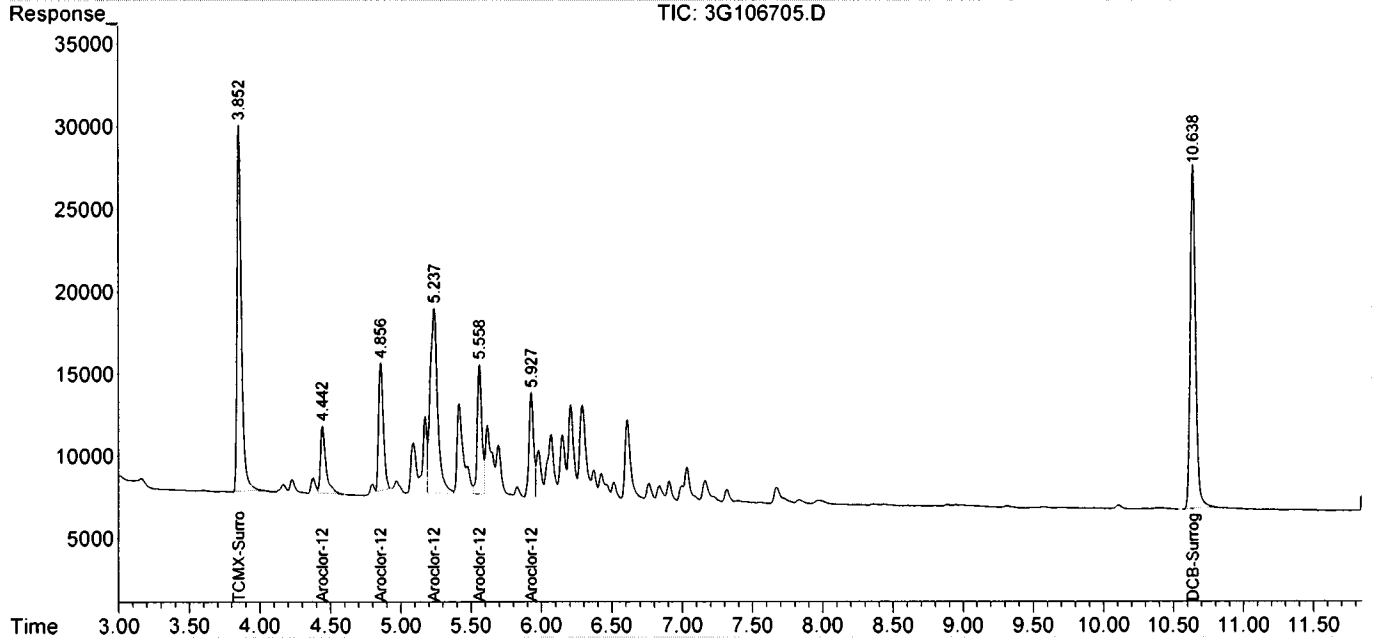
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106705.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 11:23
Operator : ZM/MLC/KD
Sample : CAL 1242@500PPB
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:21:34 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu Jan 11 12:28:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106706.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 11:38
Operator : ZM/MLC/KD
Sample : CAL 1248@500PPB
Misc : S,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:21:57 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 12:21:44 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.812	3.852	273820	509725	52.693	54.013
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	4.649	4.857	64645	99429	537.930	498.393
26)Aroclor-1248 {2}	5.110	5.237	146615	297738	537.565	577.098
27)Aroclor-1248 {3}	5.450	5.559	285204	224909	532.870	550.044
28)Aroclor-1248 {4}	5.796	6.069	130211	206362	467.669	557.371
29)Aroclor-1248 {5}	6.383	6.206	176985	272980	543.003	547.358
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D.	N.D.
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D.	N.D.
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D.	N.D.
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D.	N.D.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106706.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 11:38
Operator : ZM/MLC/KD
Sample : CAL 1248@500PPB
Misc : S,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:21:57 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 12:21:44 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

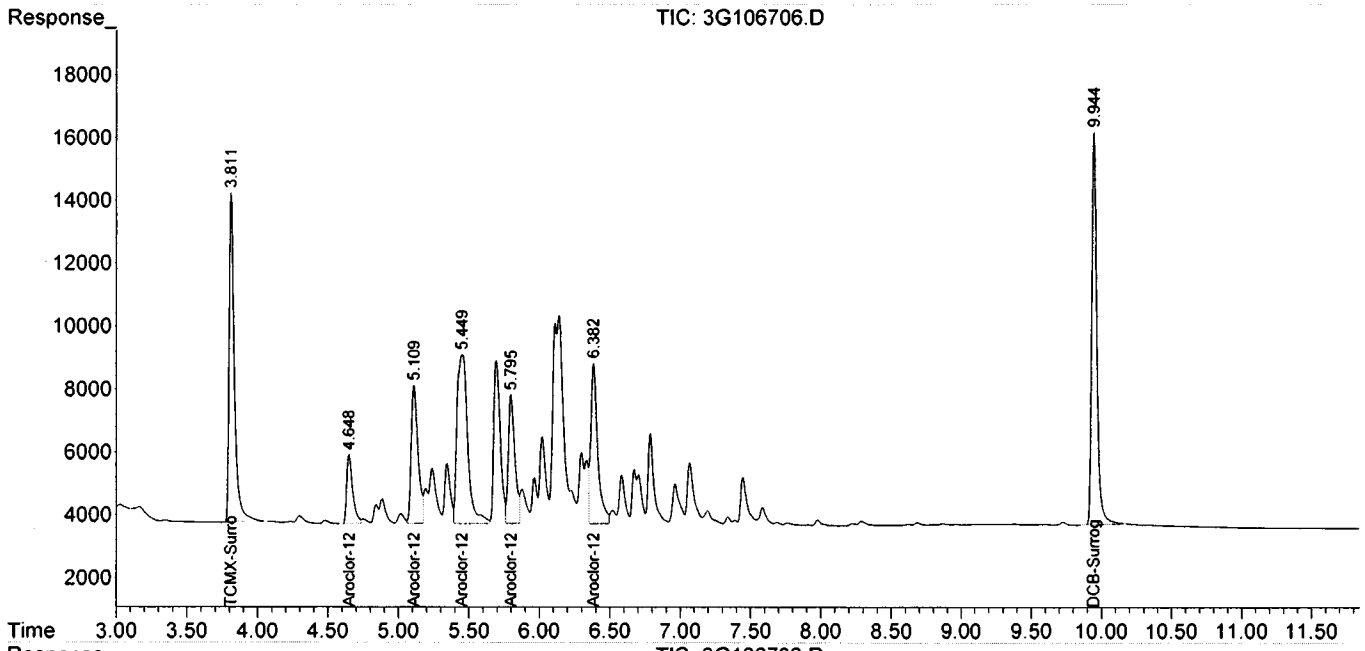
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D.	N.D.
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D.	N.D.
45)DCB-Surrogate	9.944	10.639	312063	587294	50.138	52.927

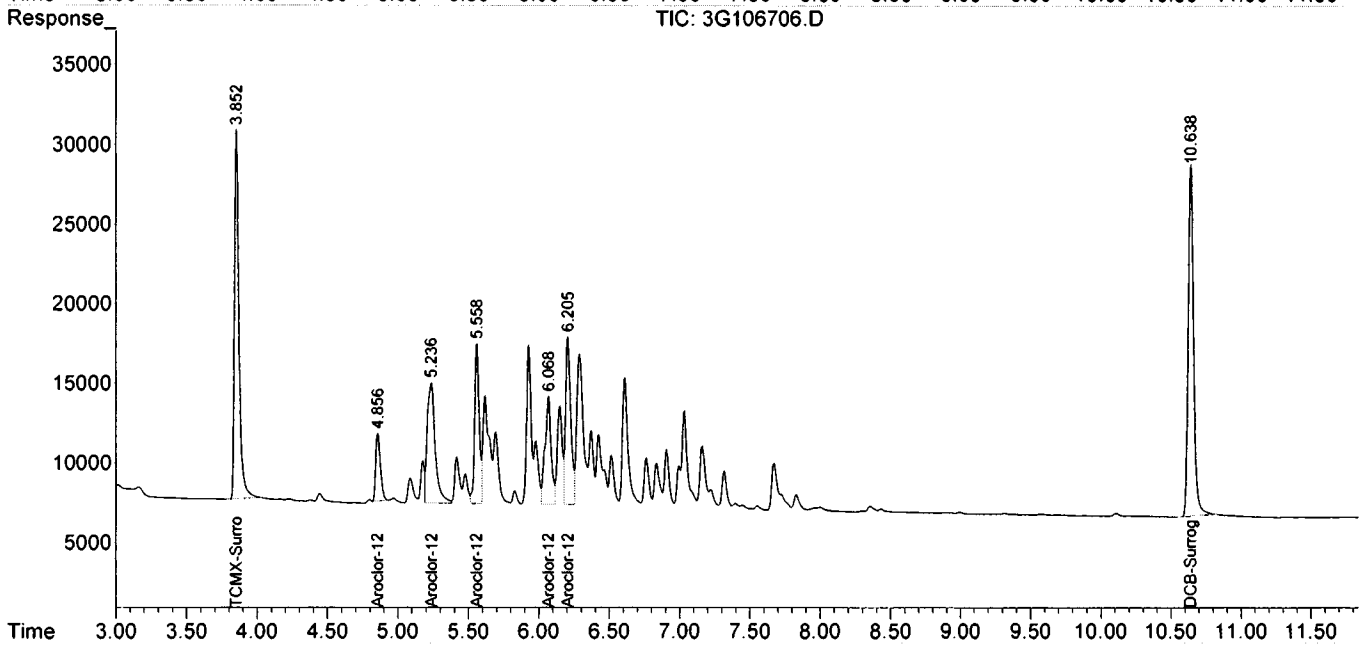
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106706.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 11:38
Operator : ZM/MLC/KD
Sample : CAL 1248@500PPB
Misc : S,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:21:57 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 12:21:44 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106707.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 11:53
Operator : ZM/MLC/KD
Sample : CAL 2154@500PPB
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:22:15 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 12:21:44 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.811	3.853	267325	494538	51.443	52.403
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	4.096	4.229	39961	72131	467.400	519.214
13)Aroclor-1221 {2}	4.234	4.378	23153	45767	473.095	516.414
14)Aroclor-1221 {3}	4.295	4.443	118190	154642	468.573	515.869
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	6.583	6.423	71432	340541	515.220	505.109
31)Aroclor-1254 {2}	6.787	6.762	281789	111792	501.438	503.090
32)Aroclor-1254 {3}	6.949	7.159	145424	305768	505.004	504.621
33)Aroclor-1254 {4}	7.066	7.671	205750	129296	499.035	489.733
34)Aroclor-1254 {5}	7.445	8.354	87890	148705	486.538	491.683
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106707.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 11:53
Operator : ZM/MLC/KD
Sample : CAL 2154@500PPB
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:22:15 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 12:21:44 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

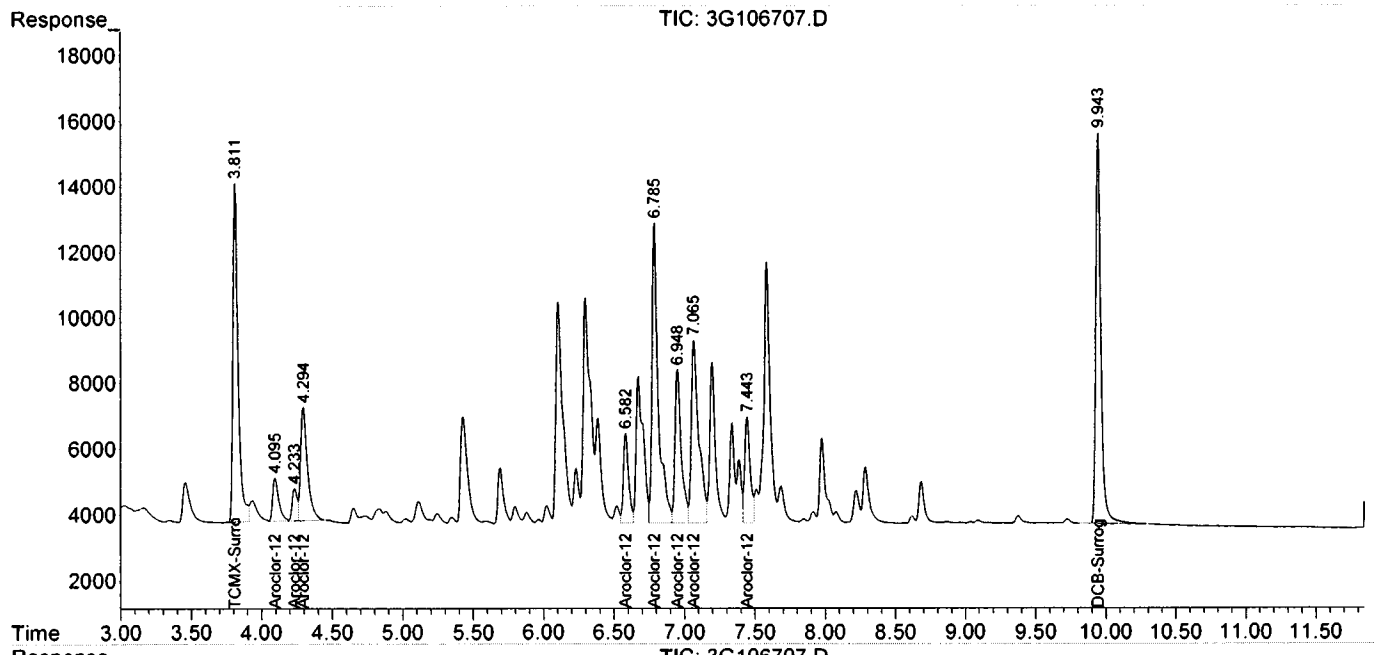
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D.	N.D.
45)DCB-Surrogate	9.944	10.638	300696	558369	48.312	50.294

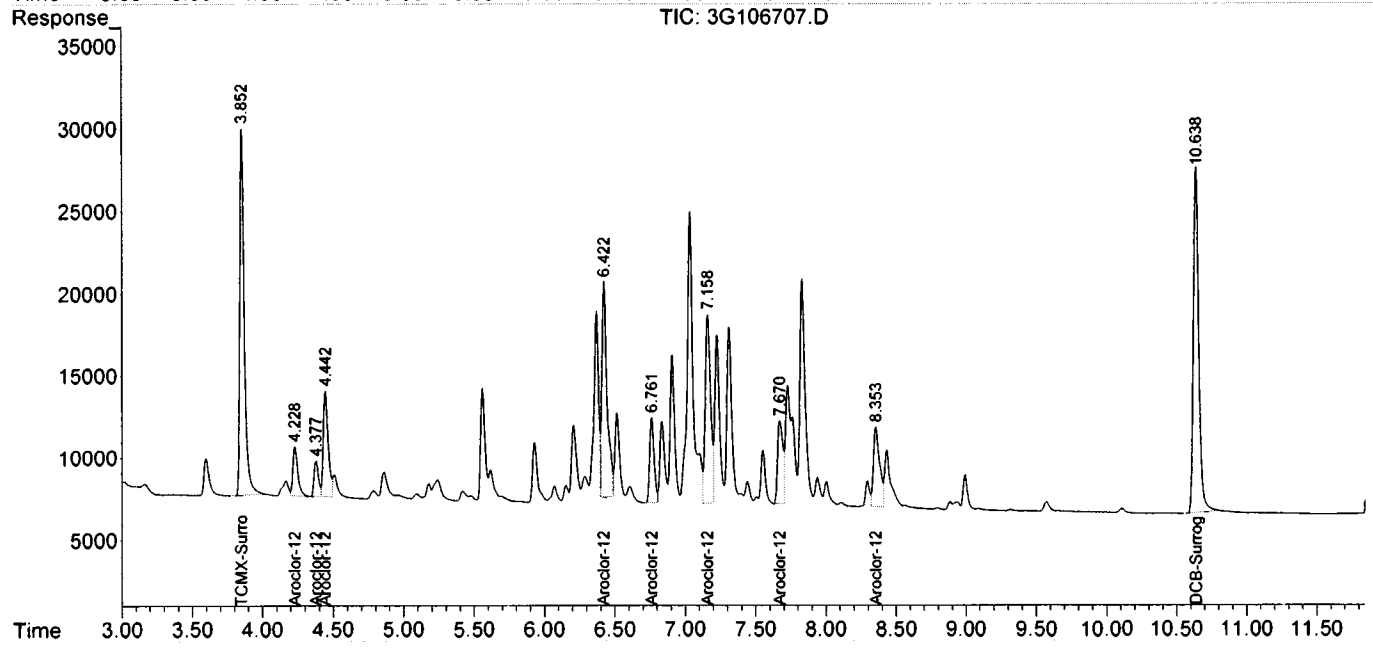
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106707.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 11:53
Operator : ZM/MLC/KD
Sample : CAL 2154@500PPB
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:22:15 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 12:21:44 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106708.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 12:08
Operator : ZM/MLC/KD
Sample : CAL 1262@500PPB
Misc : S,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:23:10 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 12:21:44 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.812	3.853	261413	487538	50.305	51.662
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	7.621	7.725	233972	317892	513.170m	502.412
36)Aroclor-1262 {2}	8.616	8.881	139811	285922	500.738m	502.879
37)Aroclor-1262 {3}	8.679	8.988	276458	312615	494.203	496.903
38)Aroclor-1262 {4}	9.375	9.570	128840	340933	493.161	494.839
39)Aroclor-1262 {5}	9.725	10.107	46983	94537	477.750	475.751
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106708.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 12:08
Operator : ZM/MLC/KD
Sample : CAL 1262@500PPB
Misc : S,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:23:10 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 12:21:44 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

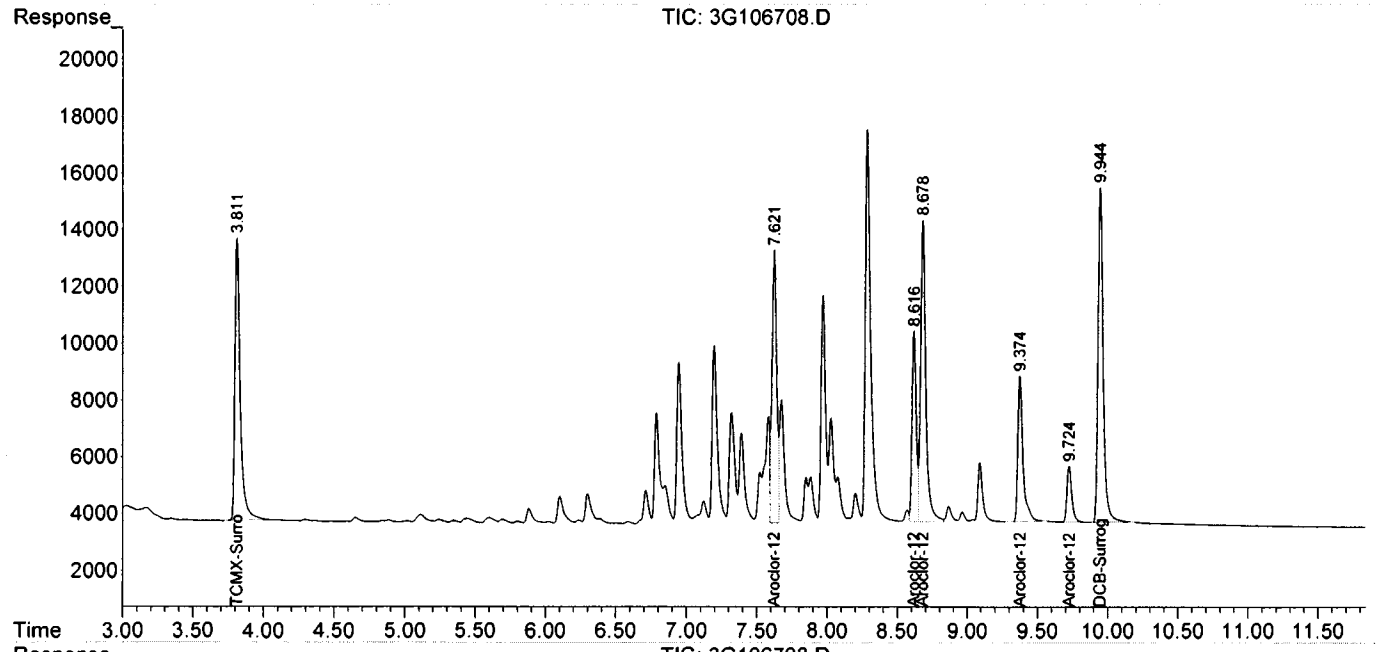
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	9.945	10.640	298476	564974	47.955	50.895

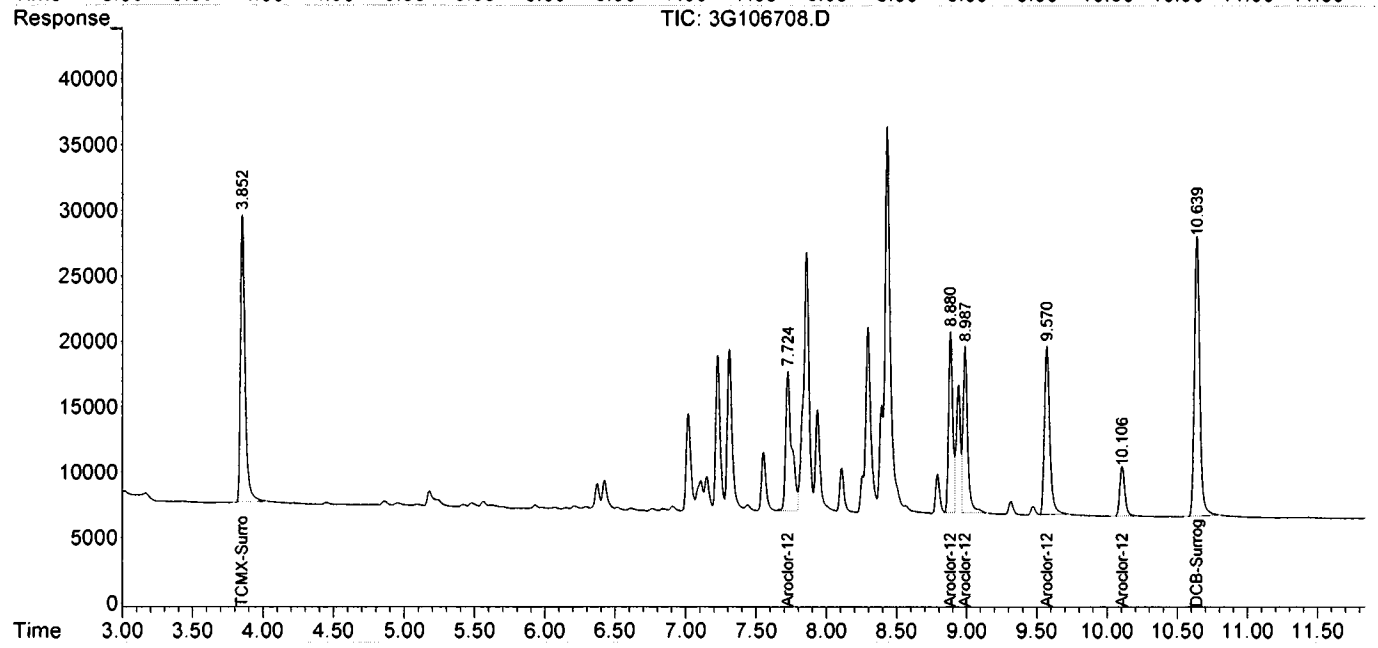
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106708.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 12:08
Operator : ZM/MLC/KD
Sample : CAL 1262@500PPB
Misc : S,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:23:10 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 12:21:44 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





TxtDfile: 3G106715.D ICV FORM Date/Time: 02/05/18 13:52

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
TCMX-Surrogate	1	0		104.11	100	104		70	130
TCMX-Surrogate	2	0		102.46	100	102		70	130
Aroclor-1016	2	1		1060.53	1000	106		70	130
Aroclor-1016	1	1		1022.19	1000	102		70	130
Aroclor-1016	1	2		1047.89	1000	105		70	130
Aroclor-1016	2	2		1062.27	1000	106		70	130
Aroclor-1016	1	3		1051.89	1000	105		70	130
Aroclor-1016	2	3		1056.72	1000	106		70	130
Aroclor-1016	1	4		1049.05	1000	105		70	130
Aroclor-1016	2	4		1068.22	1000	107		70	130
Aroclor-1016	1	5		1071.21	1000	107		70	130
Aroclor-1016	2	5		1060.22	1000	106		70	130
Aroclor-1260	2	1		1084.9	1000	108		70	130
Aroclor-1260	1	1		1060.93	1000	106		70	130
Aroclor-1260	2	2		1076.8	1000	108		70	130
Aroclor-1260	1	2		1065.23	1000	107		70	130
Aroclor-1260	1	3		1057.31	1000	106		70	130
Aroclor-1260	2	3		1054.92	1000	105		70	130
Aroclor-1260	2	4		961.61	1000	96		70	130
Aroclor-1260	1	4		941.7	1000	94		70	130
Aroclor-1260	2	5		946.83	1000	95		70	130
Aroclor-1260	1	5		939.94	1000	94		70	130
DCB-Surrogate	1	0		99.29	100	99		70	130
DCB-Surrogate	2	0		104.03	100	104		70	130

Form7
Continuing Calibration

Method: EPA 8082A

Data File:				3G107627.D			3G107641.D										
Method:				8082			8082										
Calibration Name:				CAL 1660@1000PP			CAL 1660@2000PP										
Calibration Date/Time				02/28/18 19:02			02/28/18 22:39										
				Conc			Conc			Conc			Conc			Conc		
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff
TCMX-Surrogate	20	1	0	110.2	100	10.2	220.2	200	10.1									
Aroclor-1016	20	1	1	1063	1000	6.3	1872	2000	6.4									
Aroclor-1016	20	1	2	1088	1000	8.8	2028	2000	1.4									
Aroclor-1016	20	1	3	1080	1000	8.0	2067	2000	3.4									
Aroclor-1016	20	1	4	1092	1000	9.2	1987	2000	0.7									
Aroclor-1016	20	1	5	1107	1000	10.7	1902	2000	4.9									
Aroclor-1260	20	1	1	1105	1000	10.5	2003	2000	0.2									
Aroclor-1260	20	1	2	1107	1000	10.7	2005	2000	0.2									
Aroclor-1260	20	1	3	1091	1000	9.0	1905	2000	4.8									
Aroclor-1260	20	1	4	1050	1000	5.0	1847	2000	7.7									
Aroclor-1260	20	1	5	1076	1000	7.6	1885	2000	5.8									
DCB-Surrogate	20	1	0	97.07	100	2.9	146	200	27.0*									
Average Difference	20	1	0			8.3			6.0									
TCMX-Surrogate	20	2	0	109.2	100	9.2	210.2	200	5.1									
Aroclor-1016	20	2	1	1064	1000	6.4	1968	2000	1.6									
Aroclor-1016	20	2	2	1073	1000	7.3	1969	2000	1.5									
Aroclor-1016	20	2	3	1070	1000	7.0	1979	2000	1.1									
Aroclor-1016	20	2	4	1069	1000	6.9	1973	2000	1.3									
Aroclor-1016	20	2	5	1069	1000	6.9	1970	2000	1.5									
Aroclor-1260	20	2	1	1113	1000	11.3	2022	2000	1.1									
Aroclor-1260	20	2	2	1136	1000	13.6	2083	2000	4.1									
Aroclor-1260	20	2	3	1130	1000	13.0	2036	2000	1.8									
Aroclor-1260	20	2	4	1077	1000	7.7	2050	2000	2.5									
Aroclor-1260	20	2	5	1131	1000	13.1	2111	2000	5.5									
DCB-Surrogate	20	2	0	100.5	100	0.5	184.2	200	7.9									
Average Difference	20	2	0			8.6			2.9									

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
RtWindow Summary

Method: EPA 8082A

Data File:			3G106709.D		3G107627.D							
Calibration Name:			CAL 1660@50PPB		CAL 1660@1000PPB							
Calibration Date/Time			2/5/2018 12:23:00 PM		2/28/2018 7:02:00 PM							
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
TCMX-Surrogate	1	0	3.81	(3.75 - 3.87)	3.82	(3.76 - 3.88)						
Aroclor-1016	1	1	4.29	(4.25 - 4.33)	4.30	(4.26 - 4.34)						
Aroclor-1016	1	2	4.65	(4.61 - 4.69)	4.65	(4.61 - 4.69)						
Aroclor-1016	1	3	5.11	(5.07 - 5.15)	5.11	(5.07 - 5.15)						
Aroclor-1016	1	4	5.34	(5.30 - 5.38)	5.34	(5.30 - 5.38)						
Aroclor-1016	1	5	5.46	(5.42 - 5.50)	5.46	(5.42 - 5.50)						
Aroclor-1260	1	1	6.94	(6.90 - 6.98)	6.94	(6.90 - 6.98)						
Aroclor-1260	1	2	7.20	(7.16 - 7.24)	7.19	(7.15 - 7.23)						
Aroclor-1260	1	3	7.39	(7.35 - 7.43)	7.39	(7.35 - 7.43)						
Aroclor-1260	1	4	7.97	(7.93 - 8.01)	7.97	(7.93 - 8.01)						
Aroclor-1260	1	5	8.68	(8.64 - 8.72)	8.68	(8.64 - 8.72)						
Aroclor-1221	1	1	4.10	(4.06 - 4.14)								
Aroclor-1221	1	2	4.23	(4.19 - 4.27)								
Aroclor-1221	1	3	4.29	(4.25 - 4.33)								
Aroclor-1232	1	1	4.29	(4.25 - 4.33)								
Aroclor-1232	1	2	4.65	(4.61 - 4.69)								
Aroclor-1232	1	3	5.11	(5.07 - 5.15)								
Aroclor-1232	1	4	5.24	(5.20 - 5.28)								
Aroclor-1232	1	5	5.69	(5.65 - 5.73)								
Aroclor-1242	1	1	4.29	(4.25 - 4.33)								
Aroclor-1242	1	2	4.65	(4.61 - 4.69)								
Aroclor-1242	1	3	5.11	(5.07 - 5.15)								
Aroclor-1242	1	4	5.46	(5.42 - 5.50)								
Aroclor-1242	1	5	5.69	(5.65 - 5.73)								
Aroclor-1248	1	1	4.65	(4.61 - 4.69)								
Aroclor-1248	1	2	5.11	(5.07 - 5.15)								
Aroclor-1248	1	3	5.45	(5.41 - 5.49)								
Aroclor-1248	1	4	5.80	(5.76 - 5.84)								
Aroclor-1248	1	5	6.38	(6.34 - 6.42)								
Aroclor-1254	1	1	6.58	(6.54 - 6.62)								
Aroclor-1254	1	2	6.79	(6.75 - 6.83)								
Aroclor-1254	1	3	6.95	(6.91 - 6.99)								
Aroclor-1254	1	4	7.07	(7.03 - 7.11)								
Aroclor-1254	1	5	7.44	(7.40 - 7.48)								
Aroclor-1262	1	1	7.62	(7.58 - 7.66)								
Aroclor-1262	1	2	8.62	(8.58 - 8.66)								
Aroclor-1262	1	3	8.68	(8.64 - 8.72)								
Aroclor-1262	1	4	9.37	(9.33 - 9.41)								
Aroclor-1262	1	5	9.72	(9.68 - 9.76)								
Aroclor-1268	1	1	7.97	(7.93 - 8.01)								
Aroclor-1268	1	2	8.28	(8.24 - 8.32)								
Aroclor-1268	1	3	8.86	(8.82 - 8.90)								
Aroclor-1268	1	4	8.96	(8.92 - 9.00)								
Aroclor-1268	1	5	9.72	(9.68 - 9.76)								
DCB-Surrogate	1	0	9.94	(9.88 - 10.00)	9.94	(9.88 - 10.00)						
TCMX-Surrogate	2	0	3.85	(3.79 - 3.91)	3.86	(3.80 - 3.92)						
Aroclor-1016	2	1	4.44	(4.40 - 4.48)	4.45	(4.41 - 4.49)						
Aroclor-1016	2	2	4.86	(4.82 - 4.90)	4.86	(4.82 - 4.90)						
Aroclor-1016	2	3	5.24	(5.20 - 5.28)	5.24	(5.20 - 5.28)						
Aroclor-1016	2	4	5.56	(5.52 - 5.60)	5.56	(5.52 - 5.60)						
Aroclor-1016	2	5	5.93	(5.89 - 5.97)	5.93	(5.89 - 5.97)						
Aroclor-1260	2	1	7.23	(7.19 - 7.27)	7.23	(7.19 - 7.27)						
Aroclor-1260	2	2	7.31	(7.27 - 7.35)	7.31	(7.27 - 7.35)						
Aroclor-1260	2	3	7.94	(7.90 - 7.98)	7.94	(7.90 - 7.98)						
Aroclor-1260	2	4	8.29	(8.25 - 8.33)	8.30	(8.26 - 8.34)						
Aroclor-1260	2	5	8.99	(8.95 - 9.03)	8.99	(8.95 - 9.03)						
Aroclor-1221	2	1	4.23	(4.19 - 4.27)								
Aroclor-1221	2	2	4.38	(4.34 - 4.42)								
Aroclor-1221	2	3	4.44	(4.40 - 4.48)								
Aroclor-1232	2	1	4.44	(4.40 - 4.48)								
Aroclor-1232	2	2	4.86	(4.82 - 4.90)								
Aroclor-1232	2	3	5.24	(5.20 - 5.28)								
Aroclor-1232	2	4	5.93	(5.89 - 5.97)								
Aroclor-1232	2	5	6.07	(6.03 - 6.11)								
Aroclor-1242	2	1	4.44	(4.40 - 4.48)								
Aroclor-1242	2	2	4.86	(4.82 - 4.90)								
Aroclor-1242	2	3	5.24	(5.20 - 5.28)								
Aroclor-1242	2	4	5.56	(5.52 - 5.60)								
Aroclor-1242	2	5	5.93	(5.89 - 5.97)								
Aroclor-1248	2	1	4.86	(4.82 - 4.90)								
Aroclor-1248	2	2	5.24	(5.20 - 5.28)								
Aroclor-1248	2	3	5.56	(5.52 - 5.60)								
Aroclor-1248	2	4	6.07	(6.03 - 6.11)								
Aroclor-1248	2	5	6.21	(6.17 - 6.25)								
Aroclor-1254	2	1	6.42	(6.38 - 6.46)								
Aroclor-1254	2	2	6.76	(6.72 - 6.80)								
Aroclor-1254	2	3	7.16	(7.12 - 7.20)								
Aroclor-1254	2	4	7.67	(7.63 - 7.71)								
Aroclor-1254	2	5	8.35	(8.31 - 8.39)								
Aroclor-1262	2	1	7.73	(7.69 - 7.77)								
Aroclor-1262	2	2	8.88	(8.84 - 8.92)								
Aroclor-1262	2	3	8.99	(8.95 - 9.03)								
Aroclor-1262	2	4	9.57	(9.53 - 9.61)								
Aroclor-1262	2	5	10.11	(10.07 - 10.15)								
Aroclor-1268	2	1	8.39	(8.35 - 8.43)								
Aroclor-1268	2	2	8.43	(8.39 - 8.47)								
Aroclor-1268	2	3	9.31	(9.27 - 9.35)								
Aroclor-1268	2	4	9.47	(9.43 - 9.51)								
Aroclor-1268	2	5	10.10	(10.06 - 10.14)								
DCB-Surrogate	2	0	10.64	(10.58 - 10.70)	10.64	(10.58 - 10.70)						

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107627.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 19:02
Operator : ZM/MLC/KD
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 20:14:42 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

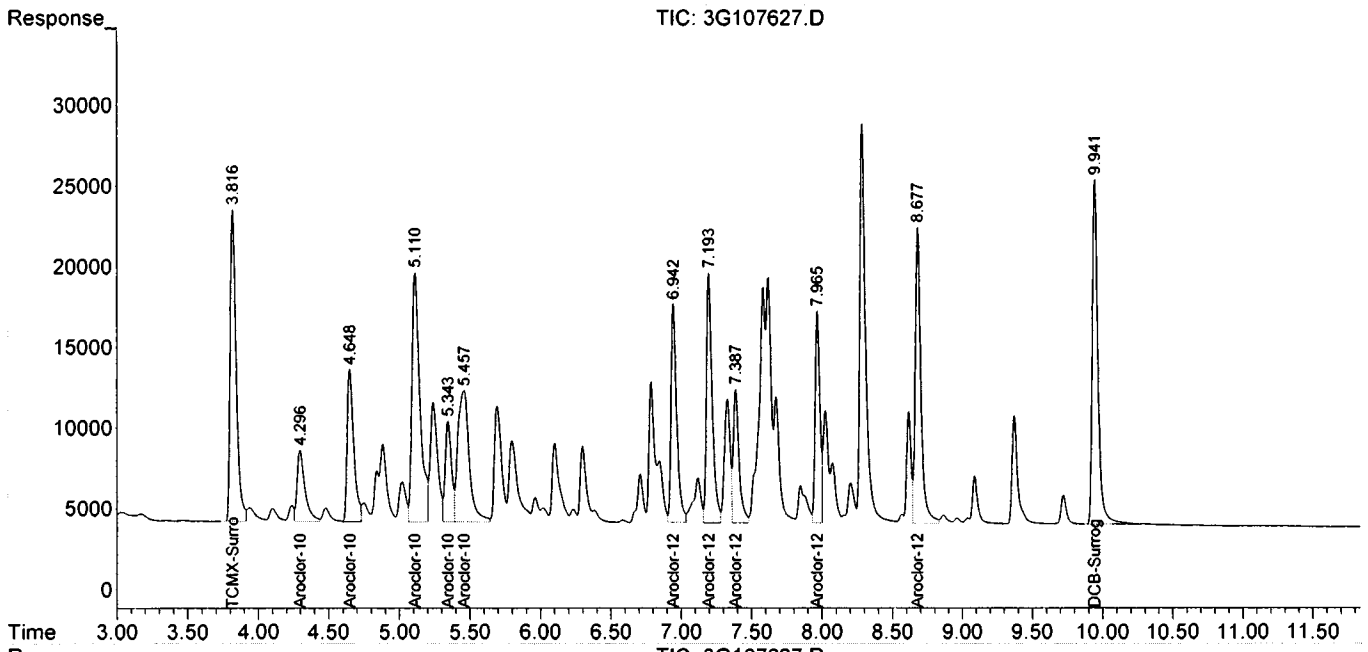
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.817	3.858	575601	1063203	110.148	109.231
2)Aroclor-1016 {1}	4.297	4.448	173622	250971	1063.475	1064.234
3)Aroclor-1016 {2}	4.648	4.861	306651	492331	1087.743	1072.538
4)Aroclor-1016 {3}	5.111	5.241	604836	1035729	1079.512	1070.417
5)Aroclor-1016 {4}	5.344	5.562	194073	446235	1092.288	1069.057
6)Aroclor-1016 {5}	5.457	5.930	457315	313395	1107.079	1069.329
7)Aroclor-1260 {1}	6.944	7.227	378930	678621	1105.448	1113.182
8)Aroclor-1260 {2}	7.195	7.312	443930	788552	1107.332	1135.873
9)Aroclor-1260 {3}	7.388	7.938	239441	377832	1090.499	1130.430
10)Aroclor-1260 {4}	7.967	8.295	311585	666525	1049.817	1077.200
11)Aroclor-1260 {5}	8.678	8.990	519494	660796	1076.430	1130.617m
45)DCB-Surrogate	9.943	10.641	592512	1099590	97.066	100.505

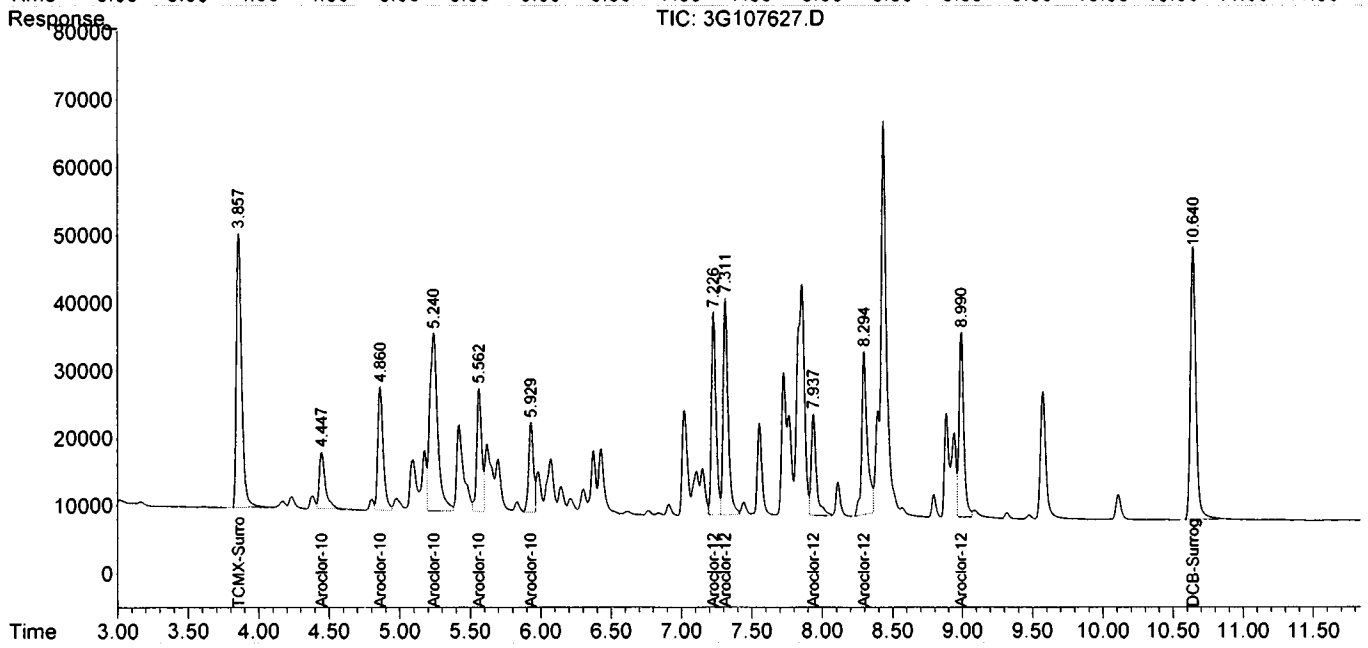
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107627.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 19:02
Operator : ZM/MLC/KD
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 20:14:42 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107641.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 22:39
Operator : ZM/MLC/KD
Sample : CAL 1660@2000PPB
Misc : A,PCB:0.25
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 23:57:11 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

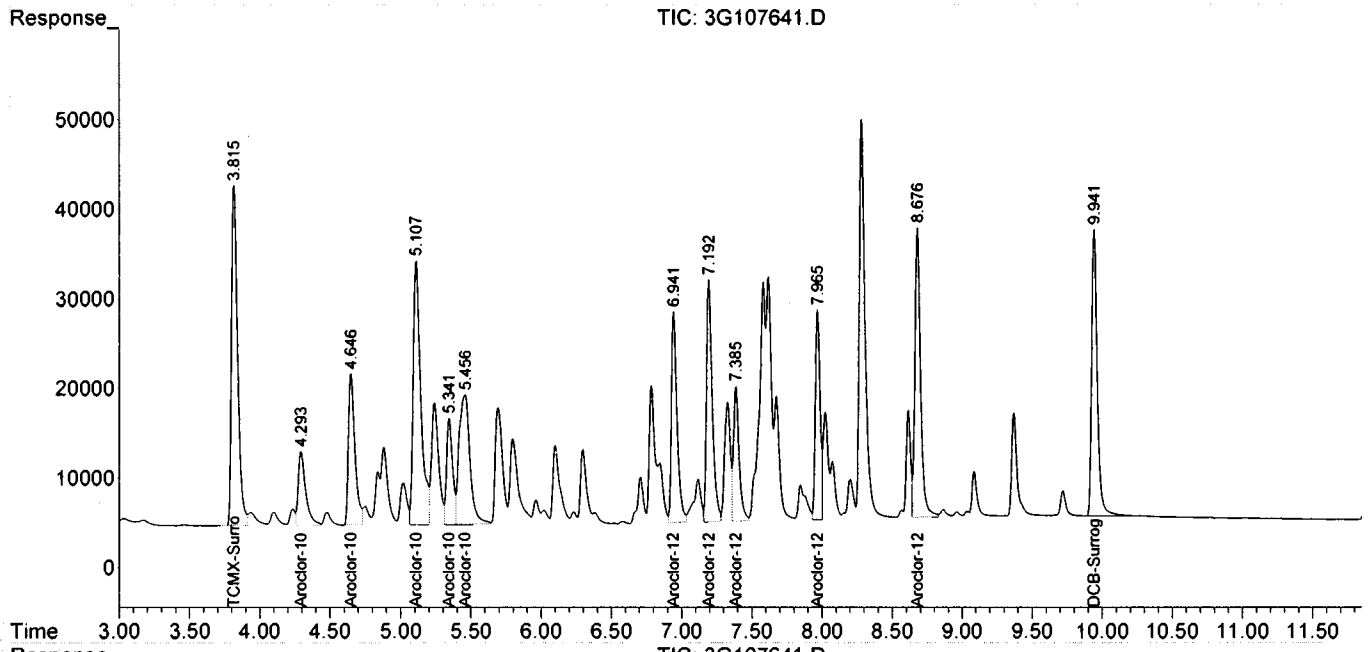
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.816	3.856	1150775	2046296	220.215	210.231
2)Aroclor-1016 {1}	4.294	4.446	305689	442675	1872.417	1967.992
3)Aroclor-1016 {2}	4.647	4.859	544706	851225	2028.270	1969.042
4)Aroclor-1016 {3}	5.108	5.239	1110616	1818949	2067.010	1978.915
5)Aroclor-1016 {4}	5.342	5.561	353030	782926	1986.939	1973.156
6)Aroclor-1016 {5}	5.457	5.929	785884	552501	1902.487	1970.261
7)Aroclor-1260 {1}	6.942	7.227	658685	1168852	2003.117	2022.309
8)Aroclor-1260 {2}	7.193	7.310	772541	1372531	2004.964	2082.613
9)Aroclor-1260 {3}	7.387	7.937	418173	651389	1904.504	2035.915
10)Aroclor-1260 {4}	7.966	8.293	548150	1230541	1846.870	2049.905m
11)Aroclor-1260 {5}	8.677	8.989	909655	1215805	1884.873	2110.722m
45)DCB-Surrogate	9.942	10.640	891024	1969629	145.969	184.165 #

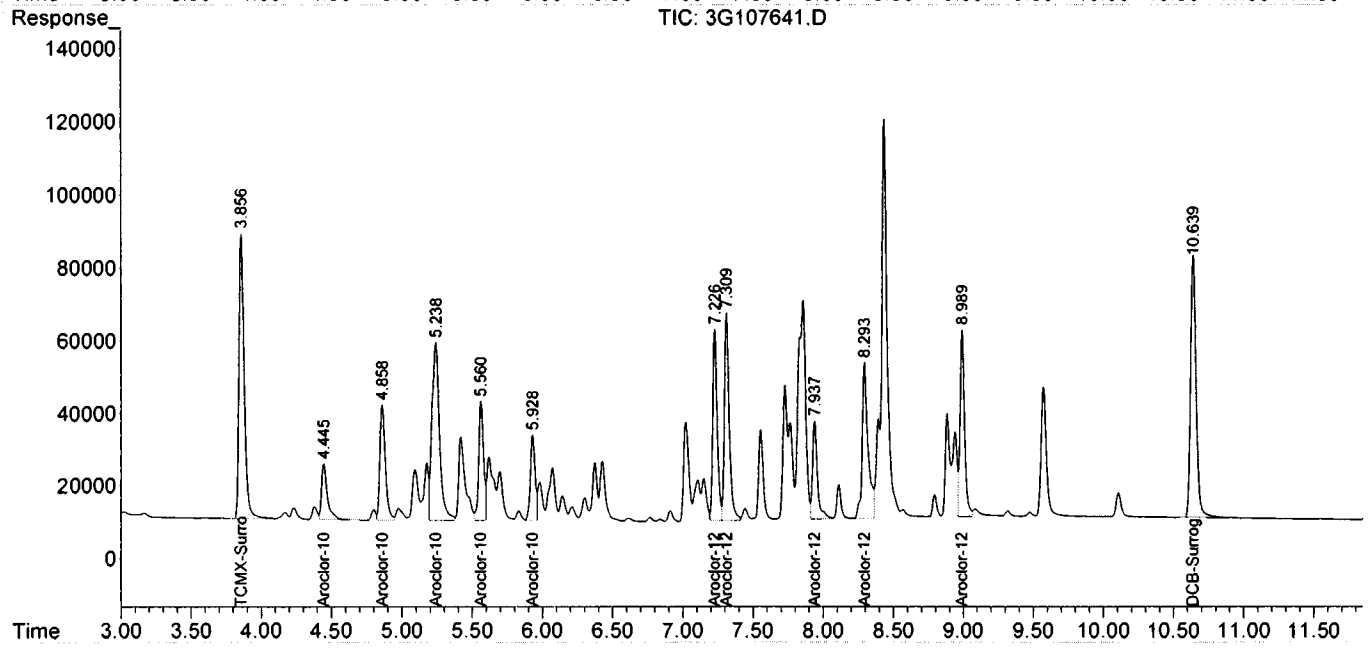
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107641.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 22:39
Operator : ZM/MLC/KD
Sample : CAL 1660@2000PPB
Misc : A,PCB:0.25
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 23:57:11 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





GC PCB Data
Raw QC Data

Form1

ORGANICS PCB REPORT

Sample Number: WMB66107
Client Id:
Data File: 3G107628.D
Analysis Date: 02/28/18 19:20
Date Rec/Extracted: NA-02/28/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U				

Worksheet #: 457381

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107628.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 19:20
Operator : ZM/MLC/KD
Sample : WMB66107
Misc : A,PCB
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 21:22:09 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

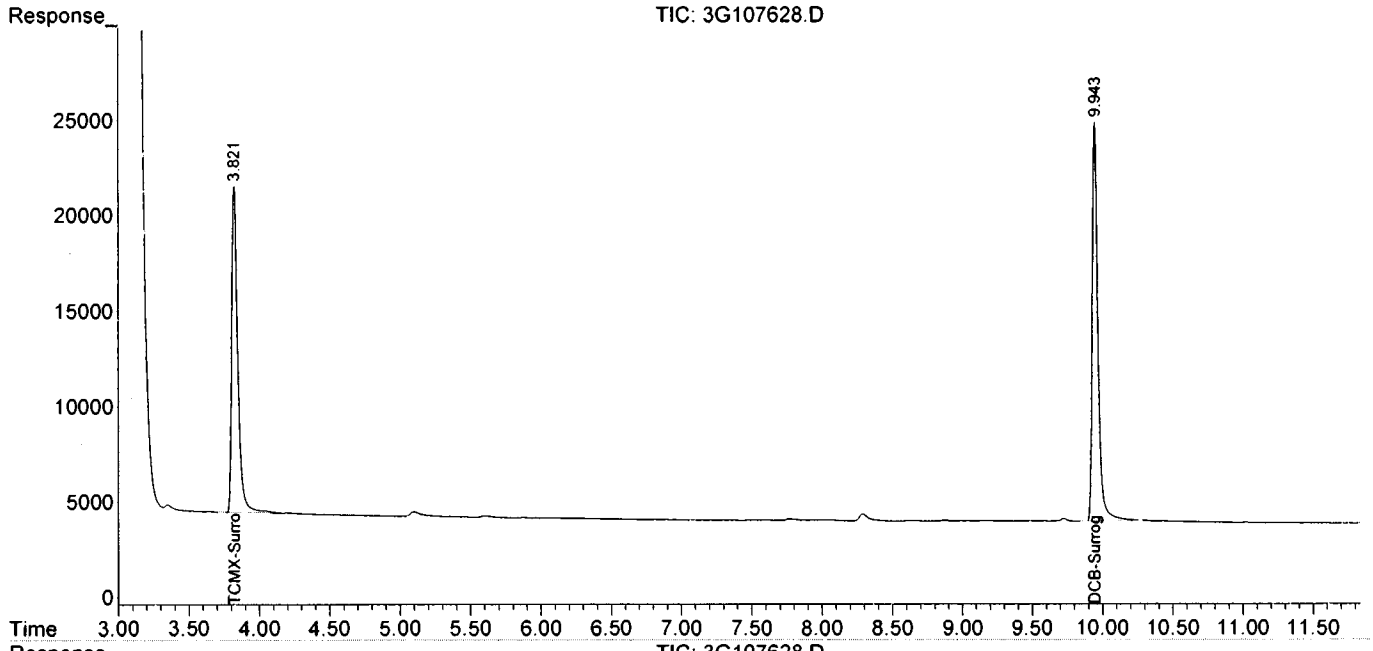
	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.822	3.861	517379	930998	99.007	95.648
45)	DCB-Surrogate	9.944	10.642	587333	1088024	96.218	99.419

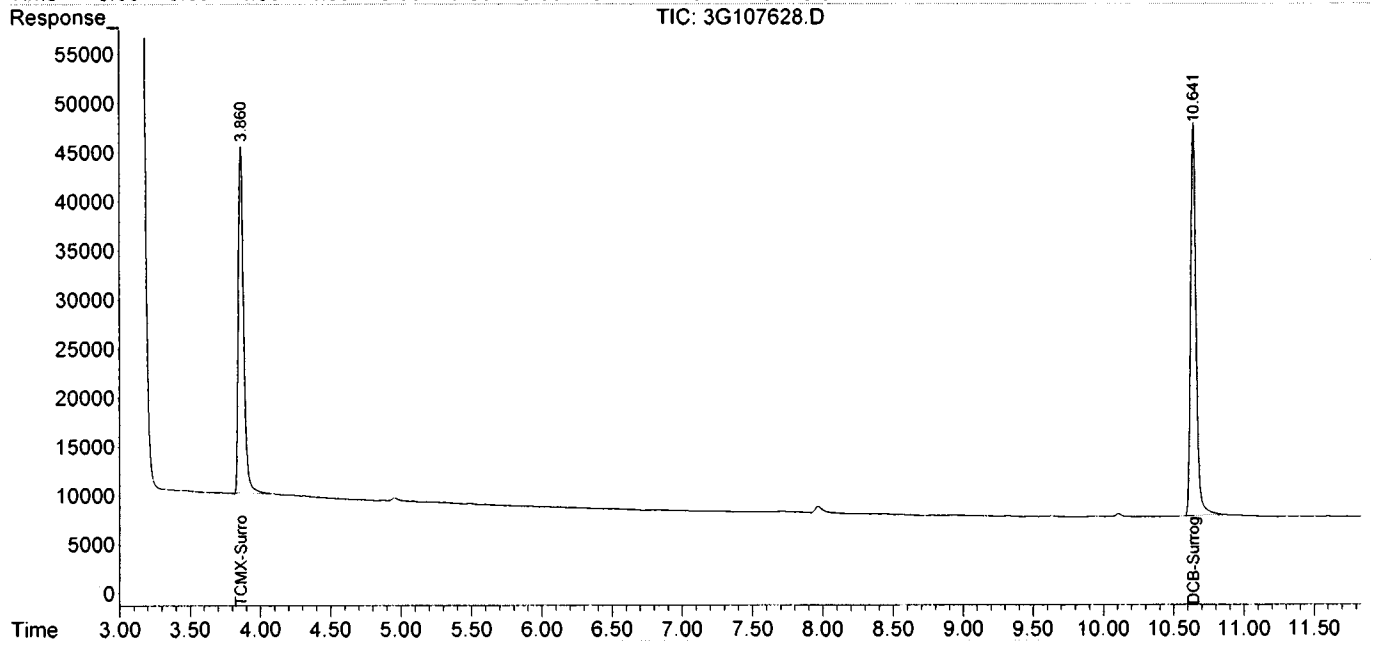
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107628.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 19:20
Operator : ZM/MLC/KD
Sample : WMB66107
Misc : A,PCB
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 21:22:09 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form3
Recovery Data Laboratory Limits
QC Batch: WMB66107

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G107629.D	WMB66107(MS)	2/28/2018 7:35:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	913.43	0	1000	91	60	130
Aroclor-1260 -Total	1	977.24	0	1000	98	60	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107629.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 19:35
Operator : ZM/MLC/KD
Sample : WMB66107(MS)
Misc : A,PCB
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 22:23:15 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

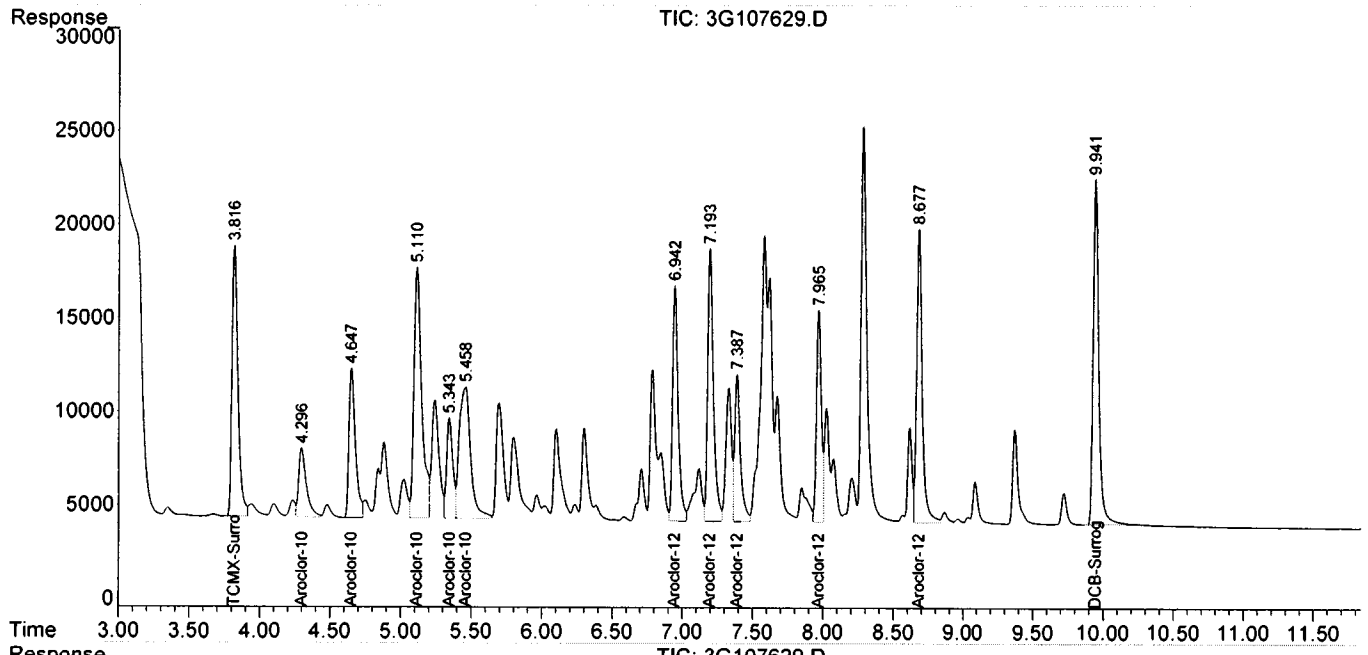
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.817	3.858	424856	793599	81.301	81.532
2)Aroclor-1016 {1}	4.296	4.447	142597	211285	873.442	887.949
3)Aroclor-1016 {2}	4.648	4.860	257424	422133	904.786	910.006
4)Aroclor-1016 {3}	5.111	5.241	517796	889290	918.004	911.075
5)Aroclor-1016 {4}	5.344	5.562	164090	388942	923.536	924.496
6)Aroclor-1016 {5}	5.458	5.929	391347	272764	947.381	924.267
7)Aroclor-1260 {1}	6.943	7.227	350375	643980	1018.113	1052.725
8)Aroclor-1260 {2}	7.194	7.311	413525	746232	1027.958	1071.206
9)Aroclor-1260 {3}	7.388	7.938	225343	357292	1026.292	1065.718
10)Aroclor-1260 {4}	7.967	8.294	269278	600409	907.275	967.080m
11)Aroclor-1260 {5}	8.678	8.989	437516	578437	906.567	987.620m
45)DCB-Surrogate	9.942	10.640	508415	953518	83.289	86.835

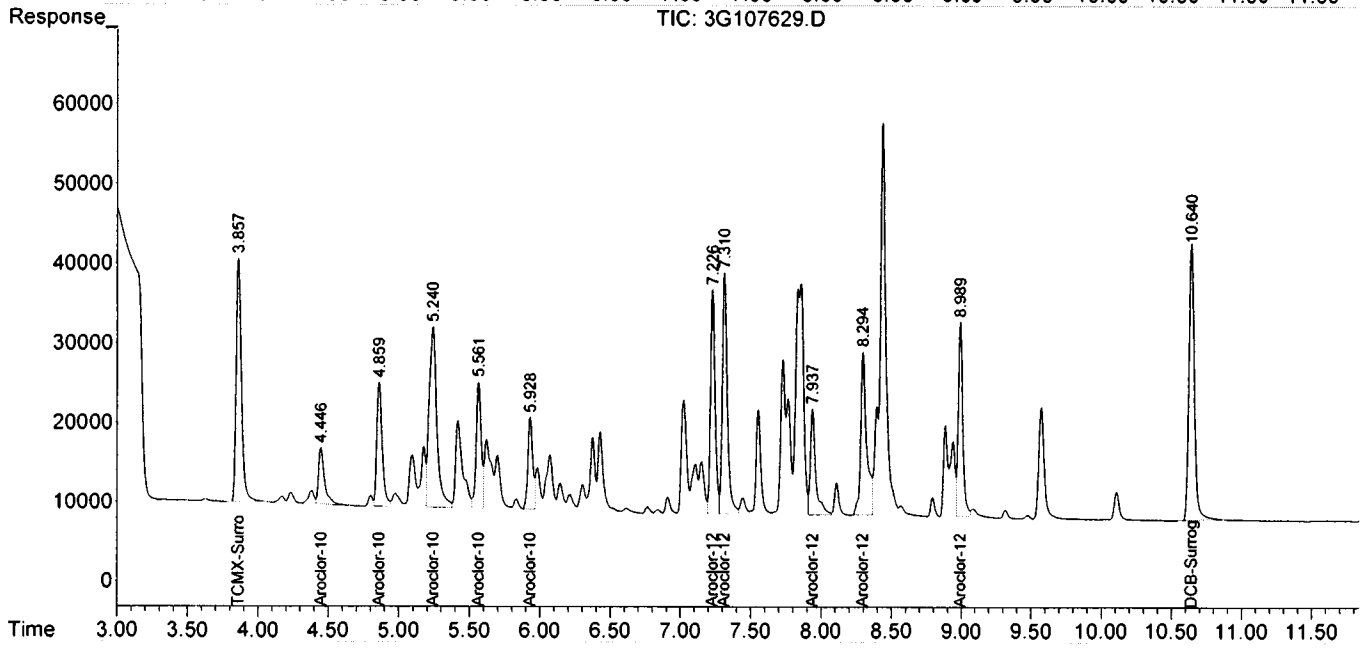
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107629.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 19:35
Operator : ZM/MLC/KD
Sample : WMB66107(MS)
Misc : A,PCB
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 22:23:15 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form3
Recovery Data Laboratory Limits
QC Batch: WMB66107

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G107630.D	AD02764-004(MS:AD02764-00	2/28/2018 7:50:00 PM
Non Spike(If applicable):	3G107634.D	AD02764-003	2/28/2018 8:52:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	993.652	0	1000	99	60	130
Aroclor-1260 -Total	1	945.514	0	1000	95	60	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G107631.D	AD02764-005(MSD:AD02764-0	2/28/2018 8:06:00 PM
Non Spike(If applicable):	3G107634.D	AD02764-003	2/28/2018 8:52:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	975.44	0	1000	98	60	130
Aroclor-1260 -Total	1	941.032	0	1000	94	60	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: WMB66107

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G107631.D	AD02764-005(MSD:AD02764-0	2/28/2018 8:06:00 PM
Duplicate(If applicable):	3G107630.D	AD02764-004(MS:AD02764-00	2/28/2018 7:50:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Aroclor-1016 -Total	1	975.44	993.652	1.8	40
Aroclor-1260 -Total	1	941.032	945.514	0.48	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107630.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 19:50
Operator : ZM/MLC/KD
Sample : AD02764-004(MS:AD02764-003)
Misc : A,PCB
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 22:23:40 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

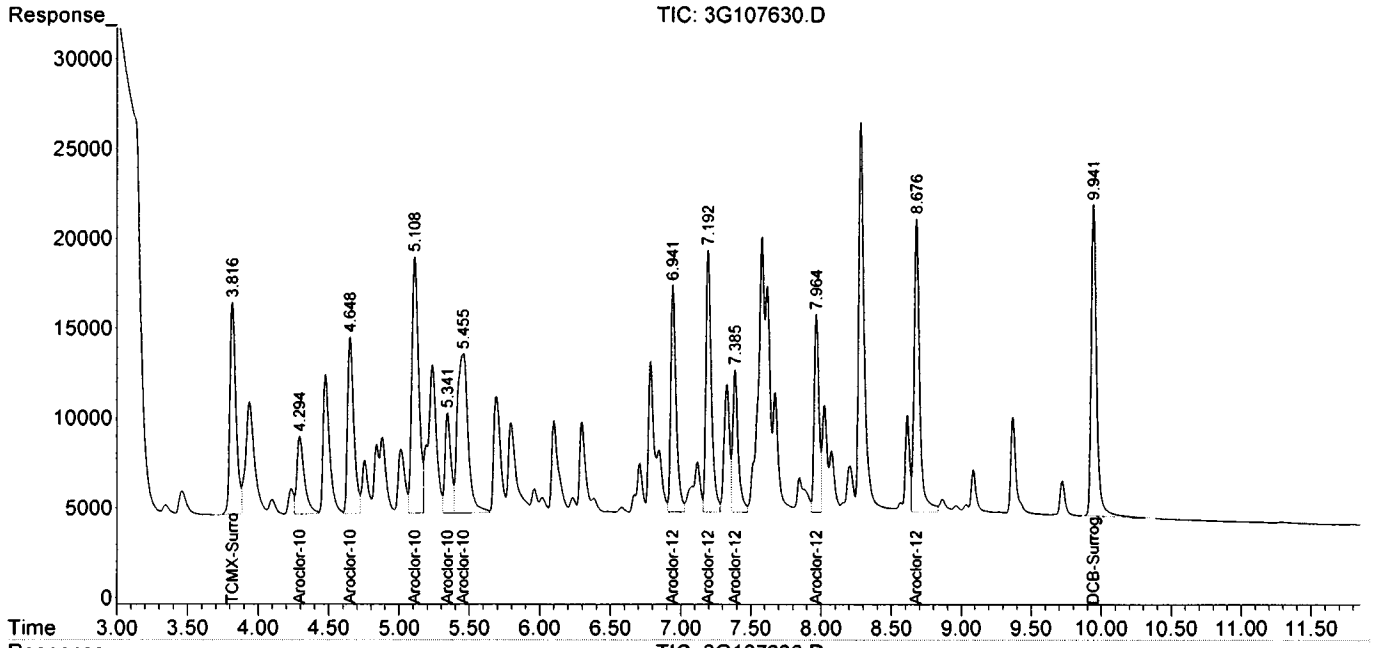
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2	
Target Compounds							
1)TCMX-Surrogate	3.817	3.858	350147	668653	67.005	68.696	
2)Aroclor-1016 {1}	4.295	4.446	159263	166090	975.525	691.128	#
3)Aroclor-1016 {2}	4.648	4.861	304372	493216	1079.191	1074.611	
4)Aroclor-1016 {3}	5.109	5.240	484523	833241	856.852	850.855	
5)Aroclor-1016 {4}	5.342	5.560	162042	508614	912.009	1229.261	#
6)Aroclor-1016 {5}	5.455	5.929	472849	259311	1144.683	876.694	
7)Aroclor-1260 {1}	6.943	7.227	335568	581847	973.110	945.380	
8)Aroclor-1260 {2}	7.193	7.310	398291	653501	988.400	931.133	
9)Aroclor-1260 {3}	7.386	7.937	214765	296537	978.112	876.701	
10)Aroclor-1260 {4}	7.965	8.294	256789	560057	865.195	900.244	
11)Aroclor-1260 {5}	8.677	8.987	445324	545097	922.746	929.907	m
45)DCB-Surrogate	9.942	10.639	472690	863895	77.437	78.498	

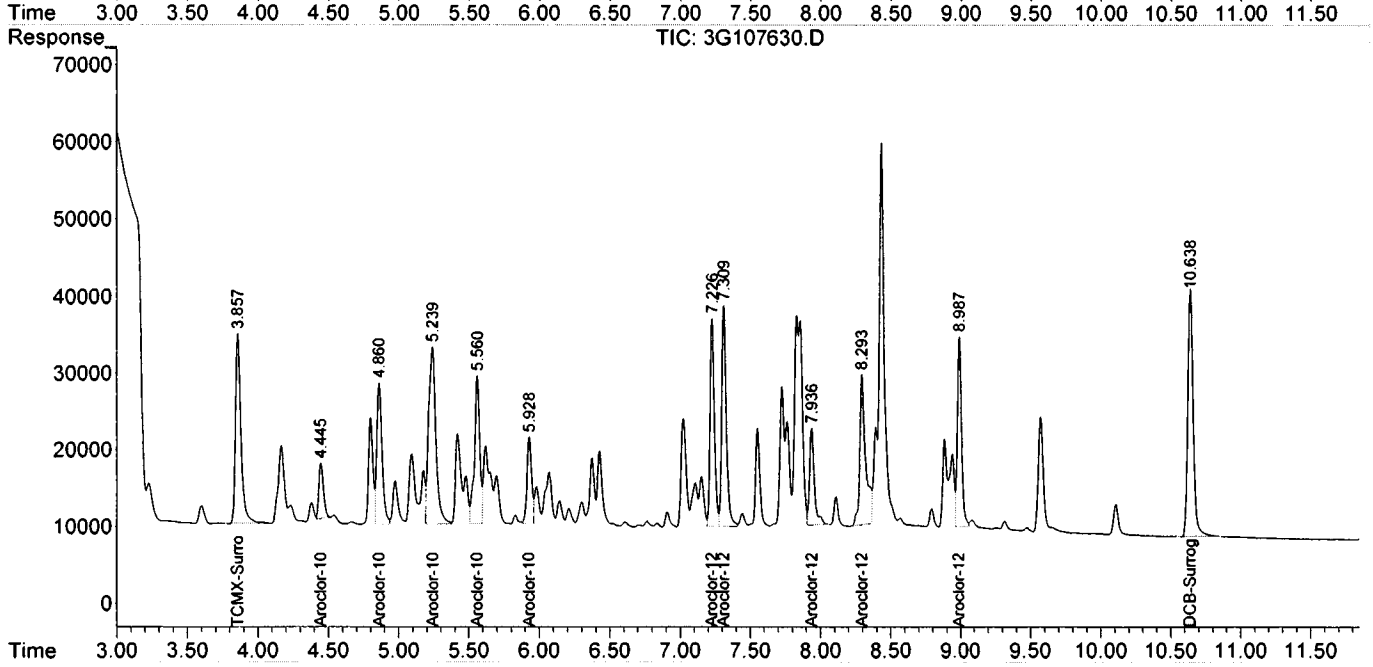
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107630.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 19:50
Operator : ZM/MLC/KD
Sample : AD02764-004(MS:AD02764-003)
Misc : A,PCB
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 22:23:40 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107631.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 20:06
Operator : ZM/MLC/KD
Sample : AD02764-005(MSD:AD02764-003)
Misc : A,PCB
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 22:25:38 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

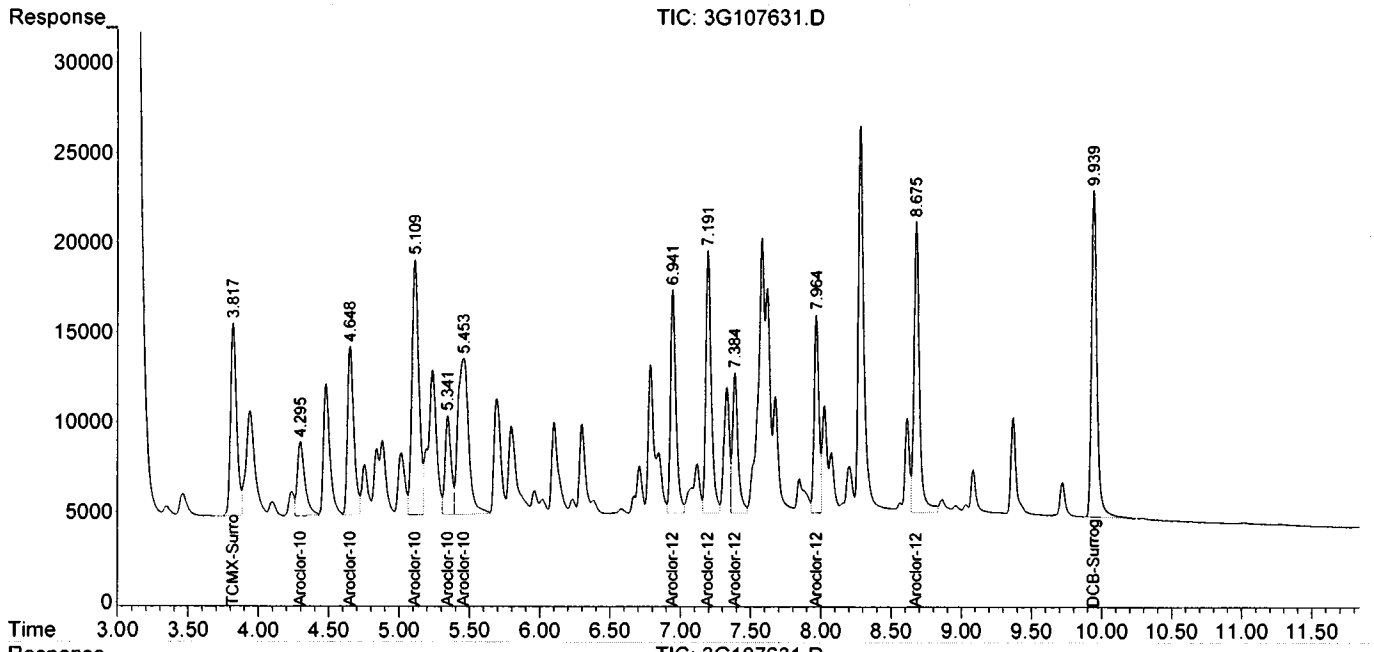
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2	
Target Compounds							
1)TCMX-Surrogate	3.818	3.859	325385	609838	62.266	62.653	
2)Aroclor-1016 {1}	4.295	4.447	152953	162719	936.875	676.607	#
3)Aroclor-1016 {2}	4.649	4.861	296514	478960	1049.775	1041.296	
4)Aroclor-1016 {3}	5.109	5.239	487994	839375	863.216	857.425	
5)Aroclor-1016 {4}	5.342	5.561	161431	503024	908.570	1214.780	#
6)Aroclor-1016 {5}	5.454	5.929	462141	267972	1118.762	907.295	
7)Aroclor-1260 {1}	6.941	7.227	333902	578037	968.057	938.843	
8)Aroclor-1260 {2}	7.192	7.309	397335	653084	985.924	930.509	
9)Aroclor-1260 {3}	7.385	7.937	213633	309265	972.957	916.011	
10)Aroclor-1260 {4}	7.964	8.293	255840	576167	861.998	926.894	m
11)Aroclor-1260 {5}	8.676	8.988	442177	536409	916.225	914.883	m
45)DCB-Surrogate	9.940	10.638	492537	917595	80.688	83.489	

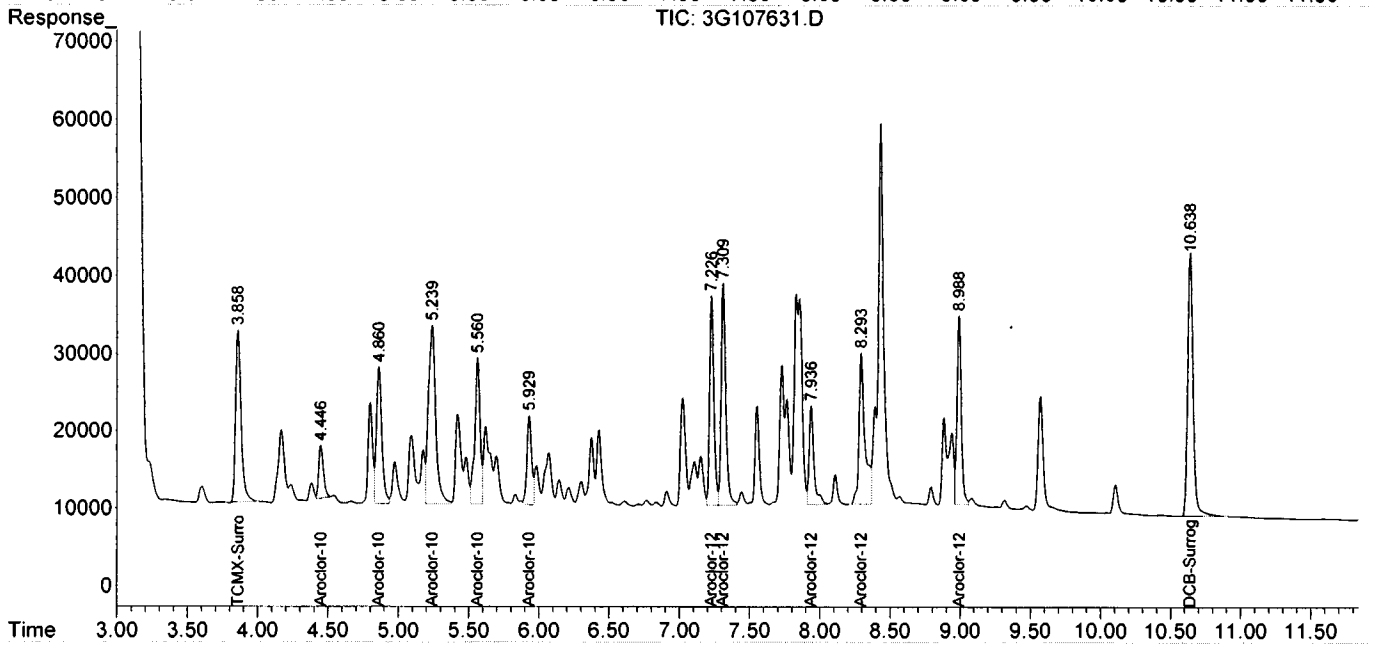
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107631.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 20:06
Operator : ZM/MLC/KD
Sample : AD02764-005(MSD:AD02764-003)
Misc : A,PCB
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 22:25:38 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107634.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 20:52
Operator : ZM/MLC/KD
Sample : AD02764-003
Misc : A,PCB
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 22:26:05 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

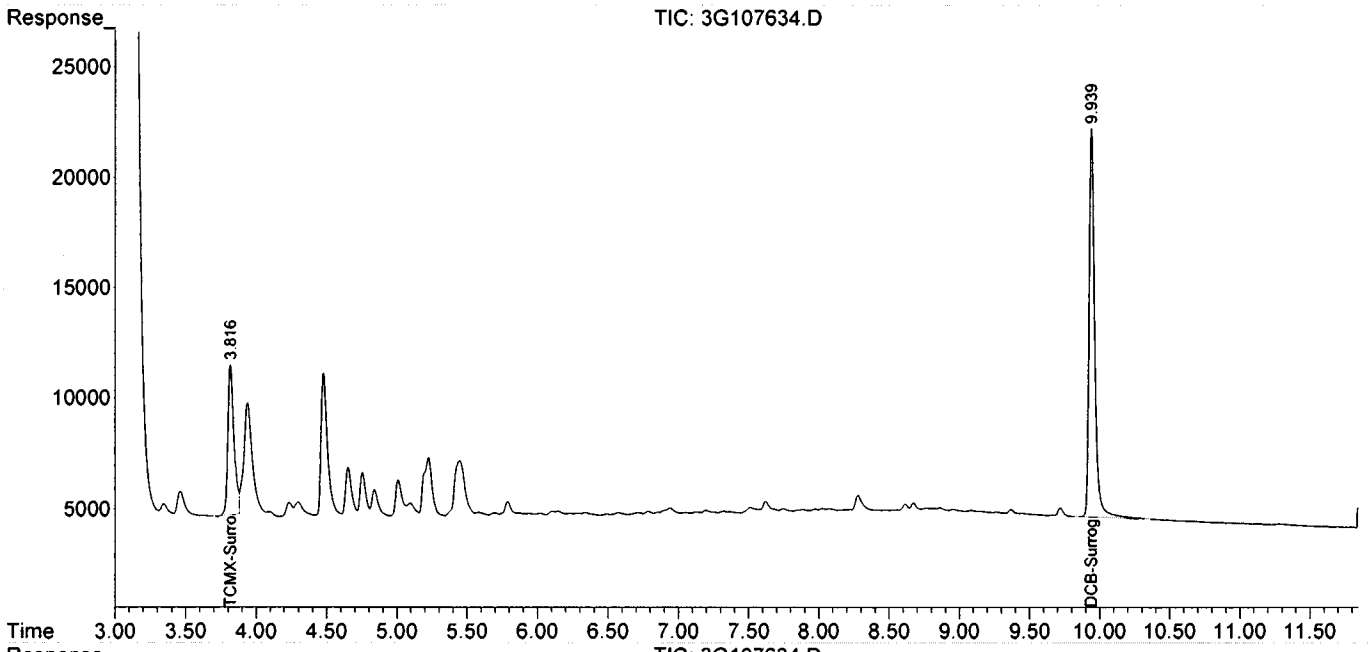
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.817	3.859	202908	394389	38.829	40.518
45)DCB-Surrogate	9.940	10.639	489202	888409	80.142	80.774

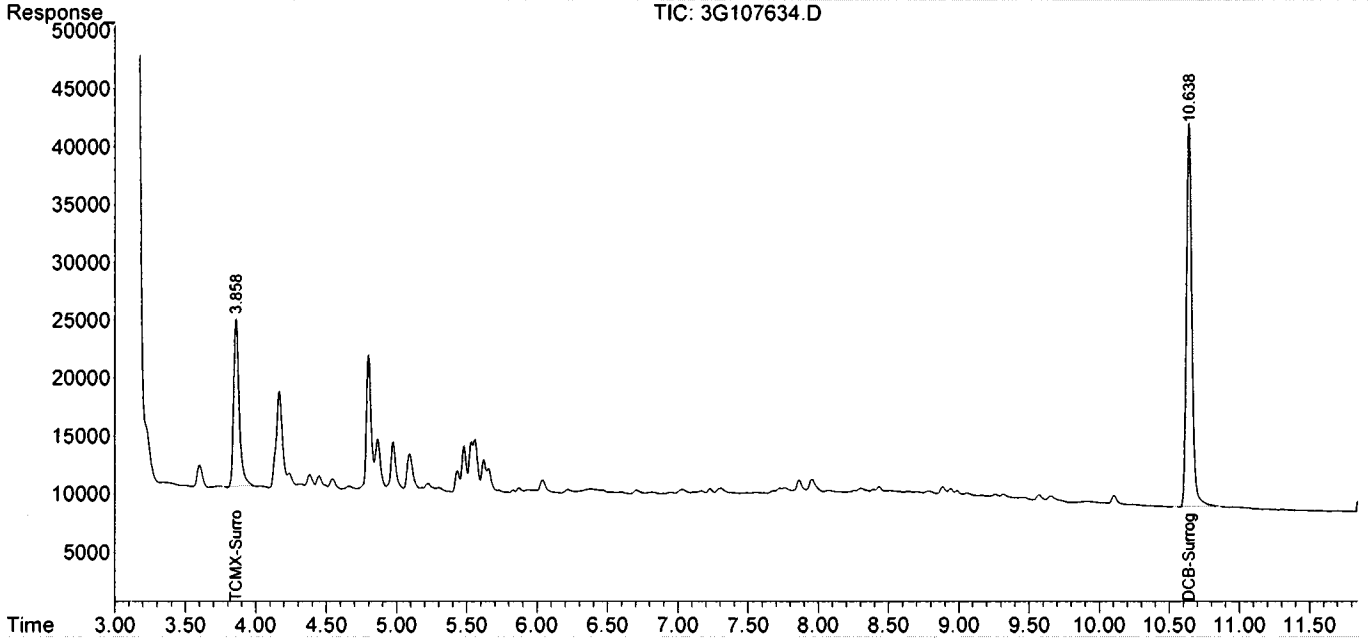
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107634.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 20:52
Operator : ZM/MLC/KD
Sample : AD02764-003
Misc : A,PCB
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 22:26:05 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





GC PCB Data
Logbook Data

QC66106 QC66107

Hampton-Clarke

Method Blank No. WMB- _____
Blank Spike (WMBS): _____
Blank Spike (WMBS): _____
Start Ext Time: 10:29
End Ext. Time: _____
Recirculator: Start temp: 15.5
End temp: 14.7

Date: 2/28/18
Matrix Spike: 66106-POST
Matrix Spike: 66107-PRE
Shaker Used: 11213
Condenser Used: 11215
Condenser Flow: 2500 CCM

Extraction: Pest (3510C)/ PCB (3510C) / Other(list):

Sample Number	Pest	PCB	Other	Initial Vol	Final Vol	Extracted By/ Comments	TCLP QC	Extraction Fluid
MB 66106/07	X	X		1000ML	5ML	LV	AD02551	SPLPV8 273224 (2/23/18
MBS 66106/07	X	X		↓	↓		-044	
MS 02764-004		X		980ML				
MSD 02764-005		X		980ML				
MS 02551-044	X			250ML				
MSD 02551-044	X			↓				
AD 02551-044	1			500ML	2.5ML	1/2 surr	1	1
AD 02552-036	2						2	2
-057	3						3	3
SPLPV 273224 (2/23/18	X						X	SPLPV 274098 2/24/18
AD 02568-001	4						4	1
-002	5						5	2
AD 02569-018	6						6	3
SPLPV 274098 (2/24/18	X			↓	↓		X	
AD 02764-001		1		1000ML	5ML			
-002		2		950ML				
-003		3		1000ML				
-006		4		980ML				
-007		5		1000ML				
AD 02762-001	7	6		↓				
AD 02771-002		7		960ML				
AD 02799-001		8		1000ML				
-002		9		↓				
AD 02820-001		10		↓		RDCK # 15		
AD 02702-002	R			100ML	5ML			
EFI 273982 (2/22/	R			100ML				
EFI 273982 (2/28/18	R							
AD 02702-002	R			↓	↓	↓		

Cleanup: Acid ___ TBA ___ Copper ___ Florisil ___ Other ___

Spike Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	10	263092	(Pest) / PCB / Other
↓	100	263279	Pest / (PCB) / Other
			Pest / PCB / Other
			Pest / PCB / Other
			Pest / PCB / Other

Surrogate Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	10	270445	(Pest / PCB) / Other
			Pest / PCB / Other
			Pest / PCB / Other
			Pest / PCB / Other
			Pest / PCB / Other

Reagent Lots: MeCl2 11493 Acetone _____ Hexane 11475 Na2SO4 11486 Ether ____

MTBE _____ Copper Powder _____ Other _____

Relinquished By: LV Date: 2/28/18
Received By: MLC Date: 3/1/18

T:\QC\FORMS\LOGBOOK FORMS\extractions\PestPCB Aq Ext Log 2016.doc

RUN LOG

Instrument: GC_3 Year: 2018
Analyst: ZM/MLC/K

1-1-3G106704

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3G106704.	CAL 3268@500PPB		OK, V-268863	KD 02/05/18		Soil	1	1	608\808	02/05 11:09
3G106705.	CAL 1242@500PPB		OK, V-268865	KD 02/05/18		Soil	1	1	608\808	02/05 11:23
3G106706.	CAL 1248@500PPB		OK,V-272855	KD 02/05/18		Soil	1	1	608\808	02/05 11:38
3G106707.	CAL 2154@500PPB		OK, V-268869	KD 02/05/18		Soil	1	1	608\808	02/05 11:53
3G106708.	CAL 1262@500PPB		OK, V-268871	KD 02/05/18		Soil	1	1	608\808	02/05 12:08
3G106709.	CAL 1660@50PPB		OK, V-268878	KD 02/05/18		Soil	1	1	608\808	02/05 12:23
3G106710.	CAL 1660@200PPB		OK, V-268877	KD 02/05/18		Soil	1	1	608\808	02/05 12:38
3G106711.	CAL 1660@500PPB		OK, V-268876	KD 02/05/18		Soil	1	1	608\808	02/05 12:52
3G106712.	CAL 1660@1000PP		OK, V-268875	KD 02/05/18		Soil	1	1	608\808	02/05 13:07
3G106713.	CAL 1660@2000PP		OK, V-268874	KD 02/05/18		Soil	1	1	608\808	02/05 13:22
3G106714.	CAL 1660@4000PP		OK, V-268873	KD 02/05/18		Soil	1	1	608\808	02/05 13:37
3G106715.	ICV		OK, V-268879	KD 02/05/18		Soil	1	1	8082	02/05 13:52
3G106716.	PEST WS	S8Do	OK, V-268881	KD 02/05/18		Soil	1	1	8082	02/05 14:07
3G106717.	SMB64182		OK	KD 02/06/18		Soil	1	1	8082	02/05 17:25
3G106718.	SMB64182(MS)		OK SMB64182	KD 02/06/18		Soil	1	1	8082	02/05 17:40
3G106719.	CAL 1660@1000PP		OK	KD 02/06/18		Soil	0.5	1	608\808	02/05 17:55
3G106720.	AD02371-066(MS)		OK SMB64182	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/05 23:21
3G106721.	AD02371-066(MSD)		OK SMB64182	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/05 23:36
3G106722.	AD02371-066		OK SMB64182	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/05 23:51
3G106723.	AD02371-037		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 00:05
3G106724.	AD02371-039		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 00:20
3G106725.	AD02371-041		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 00:35
3G106726.	AD02371-042		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 00:50
3G106727.	AD02371-043		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 01:05
3G106728.	AD02371-044		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 01:19
3G106729.	AD02371-045		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 01:34
3G106730.	CAL 1660@500PPB		OK	KD 02/06/18		Soil	1	1	608\808	02/06 01:49
3G106731.	1000PPB		NOT USED	KD 02/06/18		Soil	0.5	1	8082	02/06 02:04
3G106732.	AD02371-046		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 02:19
3G106733.	AD02371-047		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 02:34
3G106734.	AD02371-048		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 02:49
3G106735.	AD02371-049		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 03:04
3G106736.	AD02371-050		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 03:18
3G106737.	AD02371-051		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 03:33
3G106738.	AD02371-052		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 03:48
3G106739.	AD02371-054		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 04:03
3G106740.	AD02371-055		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 04:18
3G106741.	1000PPB		NOT USED	KD 02/06/18		Soil	0.5	1	8082	02/06 04:33
3G106742.	CAL 1660@500PPB		OK	KD 02/06/18		Soil	1	1	608\808	02/06 04:48

Anc	Area Not Checked	Ea	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Toln/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for eph
B8m	Blank 8000 series missing	Eto	Toln Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bof	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chak.rfs	S6	600 series surrogate out
Cme	Endinn Cal missing for sample (8000 series)	Iw	Initial cal warning Ini.cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: GC_3 Year: 2018
Analyst: ZM/MLC/K

1-1-3G107593

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3G107593.	CAL 1660@1000PP		OK, V-268875	KD 02/28/18		Soil	0.5	1	608\808	02/28 08:02
3G107594.	SMB66096		OK	KD 02/28/18		Soil	1	1	8082	02/28 08:44
3G107595.	SMB66096(MS)		OK SMB66096	KD 02/28/18		Soil	1	1	8082	02/28 08:59
3G107596.	AD02741-001(MS)		OK SMB66096	KD 02/28/18	PCB-8082	Soil	1	1	8082	02/28 09:13
3G107597.	AD02741-001(MSD)		OK SMB66096	KD 02/28/18	PCB-8082	Soil	1	1	8082	02/28 09:28
3G107598.	AD02741-001		OK SMB66096	KD 02/28/18	PCB-8082	Soil	1	1	8082	02/28 09:43
3G107599.	AD02741-003		OK	KD 02/28/18	PCB-8082	Soil	1	1	8082	02/28 09:58
3G107600.	AD02741-005		OK	KD 02/28/18	PCB-8082	Soil	1	1	8082	02/28 10:13
3G107601.	AD02772-005		OK	KD 02/28/18	PCB-8082	Soil	1	1	8082	02/28 10:28
3G107602.	AD02746-012		OK	KD 02/28/18	PCB-8082	Soil	1	1	8082	02/28 10:43
3G107603.	AD02746-010		OK	KD 02/28/18	PCB-8082	Soil	1	1	8082	02/28 10:58
3G107604.	AD02746-008		OK	KD 02/28/18	PCB-8082	Soil	1	1	8082	02/28 11:13
3G107605.	AD02746-006		OK	KD 02/28/18	PCB-8082	Soil	1	1	8082	02/28 11:28
3G107606.	CAL 1660@1000PP		OK	KD 02/28/18		Soil	0.5	1	608\808	02/28 11:43
3G107607.	SMB66098		OK	KD 02/28/18		Soil	1	1	8082	02/28 13:28
3G107608.	SMB66098(MS)		OK SMB66098	KD 02/28/18		Soil	1	1	8082	02/28 13:43
3G107609.	SMB66099		OK	KD 02/28/18		Soil	1	1	8082	02/28 13:58
3G107610.	SMB66099(MS)		OK SMB66099	KD 02/28/18		Soil	1	1	8082	02/28 14:13
3G107611.	AD02703-015(MS)		OK SMB66099	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 15:00
3G107612.	AD02703-015(MSD)		OK SMB66099	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 15:15
3G107613.	AD02703-015		OK SMB66099	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 15:30
3G107614.	AD02703-001		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 15:45
3G107615.	AD02703-002		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 16:00
3G107616.	AD02703-003		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 16:15
3G107617.	AD02703-004		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 16:31
3G107618.	AD02703-005		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 16:46
3G107619.	AD02703-006		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 17:00
3G107620.	AD02703-007		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 17:16
3G107621.	AD02703-008		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 17:31
3G107622.	AD02703-009		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 17:46
3G107623.	AD02703-010		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 18:01
3G107624.	AD02703-011		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 18:16
3G107625.	AD02703-012		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 18:32
3G107626.	AD02703-013		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 18:46
3G107627.	CAL 1660@1000PP		OK	MLC 03/01/18		Soil	0.5	1	608\808	02/28 19:02
3G107628.	WMB66107		OK	MLC 03/01/18		Aqueous	1	1	608\808	02/28 19:20
3G107629.	WMB66107(MS)		OK WMB66107	MLC 03/01/18		Aqueous	1	1	608\808	02/28 19:35
3G107630.	AD02764-004(MS:A		OK WMB66107	MLC 03/01/18	PCB-8082	Aqueous	1	1	608\808	02/28 19:50
3G107631.	AD02764-005(MSD:		OK WMB66107	MLC 03/01/18	PCB-8082	Aqueous	1	1	608\808	02/28 20:06
3G107632.	AD02764-001		OK	MLC 03/01/18	PCB-8082	Aqueous	1	1	8082	02/28 20:21
3G107633.	AD02764-002		OK	MLC 03/01/18	PCB-8082	Aqueous	1	1	8082	02/28 20:37
3G107634.	AD02764-003		OK WMB66107	MLC 03/01/18	PCB-8082	Aqueous	1	1	608\808	02/28 20:52
3G107635.	AD02764-006		OK	MLC 03/01/18	PCB-8082	Aqueous	1	1	8082	02/28 21:07
3G107636.	AD02764-007		OK	MLC 03/01/18	PCB-8082	Aqueous	1	1	8082	02/28 21:22
3G107637.	AD02762-001		OK	MLC 03/01/18	PCB-8082	Aqueous	1	1	8082	02/28 21:38
3G107638.	AD02771-002		OK	MLC 03/01/18	PCB-8082	Aqueous	1	1	8082	02/28 21:53
3G107639.	AD02799-001		RR SULFUR	MLC 02/28/18	PCB-8082	Aqueous	1	1	8082	02/28 22:08
3G107640.	AD02799-002		RR SULFUR	MLC 02/28/18	PCB-8082	Aqueous	1	1	8082	02/28 22:23
3G107641.	CAL 1660@2000PP		OK, V-268874	MLC 03/01/18		Aqueous	0.25	1	608\808	02/28 22:39
3G107642.	2000PPB	Cme	NOT USED	MLC 03/01/18		Aqueous	0.25	1	608\808	02/28 23:30

Anc	Area Not Checked	En	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for eob
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evm	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Rn	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmd.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning (ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6.Sb6	Acid and or BN Surrogate Out (600 series)

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-255229

Prepared By: Ceus, Mahalia | Department: Organics | ApprovedBy: akmal
Description: PEST/PCB SURR(GC) | BatchNumber: | ApproveDate: 05/02/17
Prep Date: 5/1/2017 | Concentration: 200 ppm | Checked: Yes
Expiration Date: 5/1/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
10855	Acetone	100 ml	neat neat	
10175	2,4,5,6-Tetrachloro-m-xylene	20 mg	neat neat	200 ppm
10174	Decachlorobiphenyl	20 mg	neat neat	200 ppm

Veritech Lot Number: V-255769

Prepared By: Ceus, Mahalia | Department: OrgPrep | ApprovedBy: akmal
Description: PEST MIX STOCK | BatchNumber: | ApproveDate: 05/11/17
Prep Date: 5/3/2017 | Concentration: 5000 ppm | Checked: Yes
Expiration Date: 5/3/2018 | Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9939	4,4'-DDT	.05 g	neat neat	5000 ppm
7907	4,4'-DDD	.05 g	neat neat	5000 ppm
7908	4,4'-DDE	.05 g	neat neat	5000 ppm
10843	n-hexane	10 ml	neat neat	

Veritech Lot Number: V-263091

Prepared By: Mian, Zanib | Department: OrgPrep | ApprovedBy: akmal
Description: PEST/PCB SURR(LAB) | BatchNumber: | ApproveDate: 09/13/17
Prep Date: 9/6/2017 | Concentration: 10 ppm | Checked: Yes
Expiration Date: 3/6/2018 | Final Volume: 500 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
v-255229	PEST/PCB SURR(GC)	25 ml	200 ppm	10 ppm
11139	Acetone	475 ml	neat neat	

Veritech Lot Number: V-268279

Prepared By: Ceus, Mahalia | Department: OrgPrep | ApprovedBy: jean
Description: PCB SPIKE | BatchNumber: | ApproveDate: 12/15/17
Prep Date: 11/30/2017 | Concentration: 100 ppm | Checked: Yes
Expiration Date: 5/30/2018 | Final Volume: 50 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11191	Aroclor 1016	5 ml	1000 ppm	100 ppm
11192	Aroclor 1260	5 ml	1000 ppm	100 ppm
11264	Acetone	40 ml	neat neat	

Veritech Lot Number: V-268862

Prepared By: Ceus, Mahalia | Department: OrgPrep | ApprovedBy: akmal
Description: 3268 inter | BatchNumber: | ApproveDate: 12/07/17
Prep Date: 12/1/2017 | Concentration: 100 ppm | Checked: Yes
Expiration Date: 5/1/2018 | Final Volume: 1 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9521	Aroclor 1232	100 ul	1000 ppm	100 ppm
10094	Aroclor 1268 STD.	100 ul	1000 ppm	100 ppm
v-255229	PEST/PCB SURR(GC)	50 ul	200 ppm	10 ppm
11269	n-hexane	750 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-268863

Prepared By: Ceus, Mahalia
Description: CAL 3268@500PPB
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-268862	3268 inter	50 ul	100 ppm	500 ppb
11269	n-hexane	9950 ul	neat neat	

Veritech Lot Number: V-268864

Prepared By: Ceus, Mahalia
Description: 1242 inter
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11303	Aroclor 1242	100 ul	1000 ppm	100 ppm
v-255229	PEST/PCB SURR(GC)	50 ul	200 ppm	10 ppm
11269	n-hexane	850 ul	neat neat	

Veritech Lot Number: V-268865

Prepared By: Ceus, Mahalia
Description: CAL 1242@500PPB
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-268864	1242 inter	50 ul	100 ppm	500 ppb
11269	n-hexane	9950 ul	neat neat	

Veritech Lot Number: V-268868

Prepared By: Ceus, Mahalia
Description: 2154 inter
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11250	Aroclor 1221	100 ul	1000 ppm	100 ppm
11302	Aroclor 1254	100 ul	1000 ppm	100 ppm
v-255229	PEST/PCB SURR(GC)	50 ul	200 ppm	10 ppm
11269	n-hexane	750 ul	neat neat	

Veritech Lot Number: V-268869

Prepared By: Ceus, Mahalia
Description: CAL 2154@500PPB
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-268868	2154 inter	50 ul	100 ppm	500 ppb
11269	n-hexane	9950 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-268870

Prepared By: Ceus, Mahalia | Department: OrgPrep | ApprovedBy: akmal
Description: 1262 inter | BatchNumber: | ApproveDate: 12/07/17
Prep Date: 12/1/2017 | Concentration: 100 ppm | Checked: Yes
Expiration Date: 5/1/2018 | Final Volume: 1 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
10634	Aroclor 1262	100 ul	1000 ppm	100 ppm
v-255229	PEST/PCB SURR(GC)	50 ul	200 ppm	10 ppm
11269	n-hexane	850 ul	neat neat	

Veritech Lot Number: V-268871

Prepared By: Ceus, Mahalia | Department: OrgPrep | ApprovedBy: akmal
Description: CAL 1262@500PPB | BatchNumber: | ApproveDate: 12/07/17
Prep Date: 12/1/2017 | Concentration: 500 ppb | Checked: Yes
Expiration Date: 5/1/2018 | Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-268870	1262 inter	50 ul	100 ppm	500 ppb
11269	n-hexane	9950 ul	neat neat	

Veritech Lot Number: V-268872

Prepared By: Ceus, Mahalia | Department: OrgPrep | ApprovedBy: akmal
Description: 1660 Intermediate | BatchNumber: | ApproveDate: 12/07/17
Prep Date: 12/1/2017 | Concentration: 100 ppm | Checked: Yes
Expiration Date: 5/1/2018 | Final Volume: 5 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11269	n-hexane	3750 ul	neat neat	
11249	Aroclor 1016	500 ul	1000 ppm	1000 ppm
11305	Aroclor 1260	500 ul	1000 ppm	1000 ppm
v-255229	PEST/PCB SURR(GC)	250 ul	200 ppm	10 ppm

Veritech Lot Number: V-268873

Prepared By: Ceus, Mahalia | Department: OrgPrep | ApprovedBy: akmal
Description: CAL 1660@4000PPB | BatchNumber: | ApproveDate: 12/07/17
Prep Date: 12/1/2017 | Concentration: 4000 ppb | Checked: Yes
Expiration Date: 5/1/2018 | Final Volume: 50 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11269	n-hexane	48000 ul	neat neat	
V-268872	1660 Intermediate	2000 ul	100 ppm	4000 ppb

Veritech Lot Number: V-268874

Prepared By: Ceus, Mahalia | Department: OrgPrep | ApprovedBy: akmal
Description: CAL 1660@2000PPB | BatchNumber: | ApproveDate: 12/07/17
Prep Date: 12/1/2017 | Concentration: 2000 ppb | Checked: Yes
Expiration Date: 5/1/2018 | Final Volume: 50 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11269	n-hexane	49000 ul	neat neat	
V-268872	1660 Intermediate	1000 ul	100 ppm	2000 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-268875

Prepared By: Ceus, Mahalia
Description: CAL 1660@1000PPB
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 1000 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11269	n-hexane	49500 ul	neat neat	
V-268872	1660 Intermediate	500 ul	100 ppm	1000 ppb

Veritech Lot Number: V-268876

Prepared By: Ceus, Mahalia
Description: CAL 1660@500PPB
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 500 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11269	n-hexane	49750 ul	neat neat	
V-268872	1660 Intermediate	250 ul	100 ppm	500 ppb

Veritech Lot Number: V-268877

Prepared By: Ceus, Mahalia
Description: CAL 1660@200PPB
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 200 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11269	n-hexane	9000 ul	neat neat	
V-268874	CAL 1660@2000PPB	1000 ul	2000 ppb	200 ppb

Veritech Lot Number: V-268878

Prepared By: Ceus, Mahalia
Description: CAL 1660@50PPB
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 50 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11269	n-hexane	9000 ul	neat neat	
V-268876	CAL 1660@500PPB	1000 ul	500 ppb	50 ppb

Veritech Lot Number: V-268879

Prepared By: Ceus, Mahalia
Description: ICV-PCB
Prep Date: 12/1/2017
Expiration Date: 3/6/2018
Department: OrgPrep
BatchNumber:
Concentration: 1000 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-268279	PCB SPIKE	100 ul	100 ppm	1000 ppb
11269	n-hexane	9800 ul	neat neat	
V-263091	PEST/PCB SURR(LAB)	100 ul	10 ppm	100 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-268880

Prepared By: Ceus, Mahalia
Description: PEST MIX INTERM
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 50 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11269	n-hexane	990 ul	neat neat	
V-255769	PEST MIX STOCK	10 ul	5000 ppm	50 ppm

Veritech Lot Number: V-268881

Prepared By: Ceus, Mahalia
Description: PEST MIX WS
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 100 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-268880	PEST MIX INTERM	20 ul	50 ppm	100 ppb
11269	n-hexane	9980 ul	neat neat	

Veritech Lot Number: V-270445

Prepared By: Mian, Zanib
Description: PEST/PCB SURR(LAB)
Prep Date: 12/22/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 10 ppm
Final Volume: 500 ml
ApprovedBy: akmal
ApproveDate: 12/29/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
v-255229	PEST/PCB SURR(GC)	25 ml	200 ppm	10 ppm
11330	Acetone	475 ml	neat neat	

Veritech Lot Number: V-272854

Prepared By: Ceus, Mahalia
Description: 1248 inter
Prep Date: 2/5/2018
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 02/05/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11452	Aroclor 1248	100 ul	1000 ppm	100 ppm
v-255229	PEST/PCB SURR(GC)	50 ul	200 ppm	10 ppm
11392	n-hexane	850 ul	neat neat	

Veritech Lot Number: V-272855

Prepared By: Ceus, Mahalia
Description: CAL 1248@500PPB
Prep Date: 2/5/2018
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 02/05/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-272854	1248 inter	50 ul	100 ppm	500 ppb
11392	n-hexane	9950 ul	neat neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 7907

Description: 4,4'-DDD

ApprovedBy: akmal
ApproveDate: 05/22/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	N-10874-250MG	1520000	05/22/13	08/30/18	Hamid, Akmal	4	250m	neat	neat

Veritech Control/Receipt Number: 7908

Description: 4,4'-DDE

ApprovedBy: akmal
ApproveDate: 05/22/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	N-10875-100MG	1487800	05/22/13	11/30/18	Hamid, Akmal	5	100m	neat	neat

Veritech Control/Receipt Number: 9521

Description: Aroclor 1232

ApprovedBy: akmal
ApproveDate: 06/05/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supeco	44805	LC01902	06/05/15	07/31/18	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 9939

Description: 4,4'-DDT

ApprovedBy: akmal
ApproveDate: 01/27/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-10876-100MG	4679800	01/27/16	01/31/23	Hamid, Akmal	2	100m	neat	neat

Veritech Control/Receipt Number: 10094

Description: Aroclor 1268 STD.

ApprovedBy: akmal
ApproveDate: 03/29/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	32410	A0110266	03/28/16	07/31/21	Hamid, Akmal	1	1ml	1000	ppm

Veritech Control/Receipt Number: 10174

Description: Decachlorobiphenyl

ApprovedBy: akmal
ApproveDate: 04/21/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44-2537	LC13395V	04/21/16	05/31/18	Hamid, Akmal	2	100m	neat	neat

Veritech Control/Receipt Number: 10175

Description: 2,4,5,6-Tetrachloro-m-xylene

ApprovedBy: akmal
ApproveDate: 04/21/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44-2298	LC17509V	04/21/16	11/30/18	Hamid, Akmal	1	1000	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 10634

Description: Aroclor 1262

ApprovedBy: akmal
ApproveDate: 12/30/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44810	XA21355V	12/29/16	06/30/19	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 10843

Description: n-hexane

ApprovedBy: akmal
ApproveDate: 03/21/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
EMD	1.04371.4000	I867071	03/21/17	12/31/19	Lopez, Jose	24	4L	neat	neat

Veritech Control/Receipt Number: 10855

Description: Acetone

ApprovedBy: Jean
ApproveDate: 03/31/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	164215	03/28/17	01/16/20	Lopez, Jose	12	4L	neat	neat

Veritech Control/Receipt Number: 11139

Description: Acetone

ApprovedBy: akmal
ApproveDate: 08/30/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	170015	08/29/17	01/30/20	Lopez, Jose	16	4L	neat	neat

Veritech Control/Receipt Number: 11191

Description: Aroclor 1016

ApprovedBy: akmal
ApproveDate: 09/28/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	C-216S-H-10X	216011018	09/27/17	01/04/26	Revolus, Jean	10	1ml	1000	PPM

Veritech Control/Receipt Number: 11192

Description: Aroclor 1260

ApprovedBy: akmal
ApproveDate: 09/28/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	C-260S-H-10X	216111142	09/27/17	11/10/26	Revolus, Jean	10	1ml	1000	PPM

Veritech Control/Receipt Number: 11249

Description: Aroclor 1016

ApprovedBy: akmal
ApproveDate: 10/27/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	48097	XA23753V	10/27/17	11/30/19	Hamid, Akmal	1	1ML	1000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11250

Description: Aroclor 1221

ApprovedBy: akmal
ApproveDate: 10/27/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	48098	XA25689V	10/27/17	04/30/20	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 11264

Description: Acetone

ApprovedBy: akmal
ApproveDate: 11/08/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	176288	11/07/17	05/08/20	Lopez, Jose	32	4L	neat	neat

Veritech Control/Receipt Number: 11269

Description: n-hexane

ApprovedBy: akmal
ApproveDate: 11/15/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
EMD	1.04371.4000	I868471	11/08/17	12/31/19	Lopez, Jose	32	4L	neat	neat

Veritech Control/Receipt Number: 11302

Description: Aroclor 1254

ApprovedBy: akmal
ApproveDate: 11/30/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44808	XA26287V	11/30/17	04/30/20	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 11303

Description: Aroclor 1242

ApprovedBy: akmal
ApproveDate: 11/30/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44806	XA26286V	11/30/17	04/30/20	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 11305

Description: Aroclor 1260

ApprovedBy: akmal
ApproveDate: 12/01/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44809	XA25133V	12/01/17	02/28/20	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 11330

Description: Acetone

ApprovedBy: akmal
ApproveDate: 12/18/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	176288	12/14/17	05/08/20	Lopez, Jose	48	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11392

Description
n-hexane

ApprovedBy: akmal
ApproveDate: 01/15/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
EMD	1.04371.4000	I868471	01/12/18	12/31/19	Lopez, Jose	23	4L	neat	neat

Veritech Control/Receipt Number: 11452

Description
Aroclor 1248

ApprovedBy: akmal
ApproveDate: 02/02/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44807	LRAB7117	02/02/18	12/31/20	Hamid, Akmal	1	1ML	1000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11475

Description
Hexanes

ApprovedBy: akmal
ApproveDate: 02/08/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	H300-4	178202	02/06/18	12/31/22	Lopez, Jose	16	4L	neat	neat

Veritech Control/Receipt Number: 11486

Description
sodium sulfate

ApprovedBy: akmal
ApproveDate: 02/12/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
seidler	SC-3375-1C	725103	02/12/18	02/12/22	Burwell, John	4	100 L	neat	neat

Veritech Control/Receipt Number: 11493

Description
Methylene Chloride

ApprovedBy: akmal
ApproveDate: 02/16/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9264-03	176216	02/16/18	09/06/18	Lopez, Jose	52	4L	neat	neat

Hampton-Clarke
Analytical & Field Services

Last Page of Report

Hampton-Clarke
Analytical & Field Services

175 ROUTE 46 WEST, UNIT D · FAIRFIELD, NJ 07004
2 MADISON ROAD, FAIRFIELD, NJ 07004
800-426-9992 · 973-244-9770
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Project: Former BICC Cables Site

Client PO: 56386

Report To: Paulus, Sokolowski & Sartor, Inc.
1 Larkin Plaza
2nd Floor
Yonkers, NY 10701

Attn: Scott Caporizzo

Received Date: 2/26/2018

Report Date: 3/23/2018

Deliverables: NYDOH-CatB

Lab ID: AD02799

Lab Project No: 8022605

This report is a true report of results obtained from our tests of this material. The report relates only to those samples received and analyzed by the laboratory. All results meet the requirements of the NELAC Institute standards. Laboratory reports may not be reproduced, except in full, without the written approval of the laboratory.

In lieu of a formal contract document, the total aggregate liability of Hampton-Clarke to all parties shall not exceed Hampton-Clarke's total fee for analytical services rendered.

Robin Cousineau - Quality Assurance Director OR Jean Revolus - Laboratory Director

NJ (07071) NY (ELAP11408) CT (PH-0671)
PA (68-00463) KY (90124)

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SDG Narrative

HC Case Narrative

Client: Paulus, Sokolowski & Sartor, Inc. **HC Project:** 8022605
Project: Former BICC Cables Site

Hampton-Clarke (HC) received the following samples on 02/26/2016:

Client ID	HC Sample ID	Matrix	Analysis
RMW-3_02232018	AD02799-001	Aqueous	VO (8260C), PCB (8082A)
WC_02232018	AD02799-002	Aqueous	VO (8260C), BNa (8270D), PCB (8082A), TPH (8015D), Metals (6010C/6020A/7470A), Reactive Cyanide (SW846 7.3.3), Flash Point (1010), pH (SM4500-H+B-00), Reactive Sulfide (SW846 7.3.4)

This case narrative is in the form of an exception report. Method specific and/or QA/QC anomalies related to this report only are detailed below.

Volatile Organic Analysis:

The Method Blank Spike for batch 67265 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The Matrix Spike and Matrix Spike Duplicate for batch 67265 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

2-Chloroethylvinylether did not recover in the Matrix Spike and Matrix Spike Duplicate in batch 67265 due to acid preservation of sample. 2-Chloroethylvinylether readily decomposes under acidic conditions. The recovery of 2-Chloroethylvinylether is within QC limits in the Laboratory Control Sample. Please refer to the applicable Form 3 for the recoveries.

Base Neutral/Acid Extractable Analysis:

The Method Blank Spike for batch 66108 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

The MS/MSD RPD, Matrix Spike and Matrix Spike Duplicate for batch 66108 had recoveries outside QC limits. Please refer to the applicable Form 3 for the recoveries.

Samples AD02667-001, -001 (MS), and -001 (MSD) had a surrogate recovery outside QC limits, but the recovery is greater than 10%, therefore, no corrective action was necessary. Please refer to the applicable Form 2 for the recoveries.

PCB Analysis:

Data conforms to method requirements.

Total Petroleum Hydrocarbon Analysis:

Data conforms to method requirements.

Metals Analysis:

Sample AD02799-002: Na reported at dilution due to concentration above linear range.

The serial dilution for batch 66498 is outside QC limits for one or more analytes. Please refer to the applicable Form 6/9 for the recoveries.

Wet Chemistry Analysis:

Sample AD02799-002 was received and analyzed outside the 15 minute hold time for pH.

Sample AD02799-002 was analyzed for Reactivity using SW-846 7.3. SW-846 7.3 is not a NELAP accredited parameter.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Robin Cousineau
Quality Assurance Director

Or

Jean Revolus
Laboratory Director

3/23/2018
Date

Reporting Limit Definitions

HC Reporting Limit Definitions/Data Qualifiers

REPORTING DEFINITIONS

DF = Dilution Factor

MDL = Method Detection Limit

RL* = Reporting Limit

ND = Not Detected

RT = Retention Time

NA = Not Applicable

**Samples with elevated Reporting Limits (RLs) as a result of a dilution may not achieve client reporting limits in some cases. The elevated RLs are unavoidable consequences of sample dilution required to quantitate target analytes that exceed the calibration range of the instrument.*

DATA QUALIFIERS

A- Indicates that the Tentatively Identified Compound (TIC) is suspected to be an aldol-condensation product. These compounds are by-products of acetone and methylene chloride used in the extraction process.

B- Indicates analyte was present in the Method Blank and sample.

d- For Pesticide and PCB analysis, the concentration between primary and secondary columns is greater than 40%. The lower concentration is generally reported.

E- Indicates the concentration exceeded the upper calibration range of the instrument.

J- Indicates the value is estimated because it is either a Tentatively Identified Compound (TIC) or the reported concentration is greater than the MDL but less than the RL. For samples results between the MDL and RL there is a possibility of false positives or misidentification at the quantitation levels. Additionally, the acceptance criteria for QC samples may not be met.

R- Retention Time is out.

Y- Indicates a contaminant found in the blank at less than 10% of the concentration of a contaminant found in the sample.

Data Package Summary Forms

HC Report of Analysis

Client: Paulus, Sokolowski & Sartor, Inc. **HC Project #:** 8022605

Project: Former BICC Cables Site

Sample ID: RMW-3_02232018 **Collection Date:** 2/23/2018
Lab#: AD02799-001 **Receipt Date:** 2/26/2018
Matrix: Aqueous

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND

Sample ID: RMW-3_02232018 **Collection Date:** 2/23/2018
Lab#: AD02799-001 **Receipt Date:** 2/26/2018
Matrix: Aqueous

Dichlorodifluoromethane	1	ug/l	1.0	ND
Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	1	ug/l	1.0	ND
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Sample ID: WC_02232018
Lab#: AD02799-002
Matrix: Aqueous

Collection Date: 2/23/2018
Receipt Date: 2/26/2018

Flash Point 1010

Analyte	DF	Units	RL	Result
Flash Point	1	deg. f		>141

Mercury (Water) 7470A

Analyte	DF	Units	RL	Result
Mercury	1	ug/l	0.50	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	ug/l	0.25	ND
Aroclor-1016	1	ug/l	0.25	ND
Aroclor-1221	1	ug/l	0.25	ND
Aroclor-1232	1	ug/l	0.25	ND
Aroclor-1242	1	ug/l	0.25	ND
Aroclor-1248	1	ug/l	0.25	ND
Aroclor-1254	1	ug/l	0.25	ND
Aroclor-1260	1	ug/l	0.25	ND
Aroclor-1262	1	ug/l	0.25	ND
Aroclor-1268	1	ug/l	0.25	ND

pH (SM4500-H+ B-00)

Analyte	DF	Units	RL	Result
pH	1	ph		8.4

Reactive Cyanide

Analyte	DF	Units	RL	Result
Cyanide (Reactive)	1	mg/kg	0.50	ND

Reactive Sulfide

Analyte	DF	Units	RL	Result
Sulfide (Reactive)	1	mg/kg	100	ND

Semivolatile Organics (no search) 8270

Analyte	DF	Units	RL	Result
1,1'-Biphenyl	1	ug/l	2.0	ND
1,2,4,5-Tetrachlorobenzene	1	ug/l	2.0	ND
2,3,4,6-Tetrachlorophenol	1	ug/l	2.0	ND
2,4,5-Trichlorophenol	1	ug/l	2.0	ND
2,4,6-Trichlorophenol	1	ug/l	2.0	ND
2,4-Dichlorophenol	1	ug/l	0.50	ND
2,4-Dimethylphenol	**1**	**ug/l**	**0.50**	**0.52**
2,4-Dinitrophenol	1	ug/l	10	ND
2,4-Dinitrotoluene	1	ug/l	2.0	ND
2,6-Dinitrotoluene	1	ug/l	2.0	ND
2-Chloronaphthalene	1	ug/l	2.0	ND
2-Chlorophenol	1	ug/l	2.0	ND
2-Methylnaphthalene	1	ug/l	2.0	ND
2-Methylphenol	1	ug/l	0.50	ND
2-Nitroaniline	1	ug/l	2.0	ND
2-Nitrophenol	1	ug/l	2.0	ND
3&4-Methylphenol	1	ug/l	0.50	ND
3,3'-Dichlorobenzidine	1	ug/l	2.0	ND
3-Nitroaniline	1	ug/l	2.0	ND
4,6-Dinitro-2-methylphenol	1	ug/l	10	ND
4-Bromophenyl-phenylether	1	ug/l	2.0	ND
4-Chloro-3-methylphenol	1	ug/l	2.0	ND
4-Chloroaniline	1	ug/l	0.50	ND

Sample ID: WC_02232018 **Collection Date:** 2/23/2018
Lab#: AD02799-002 **Receipt Date:** 2/26/2018
Matrix: Aqueous

4-Chlorophenyl-phenylether	1	ug/l	2.0	ND
4-Nitroaniline	1	ug/l	2.0	ND
4-Nitrophenol	1	ug/l	2.0	ND
Acenaphthene	1	ug/l	2.0	ND
Acenaphthylene	1	ug/l	2.0	ND
Acetophenone	1	ug/l	2.0	ND
Anthracene	1	ug/l	2.0	ND
Atrazine	1	ug/l	2.0	ND
Benzaldehyde	1	ug/l	2.0	ND
Benzo[a]anthracene	1	ug/l	2.0	ND
Benzo[a]pyrene	1	ug/l	2.0	ND
Benzo[b]fluoranthene	1	ug/l	2.0	ND
Benzo[g,h,i]perylene	1	ug/l	0.50	ND
Benzo[k]fluoranthene	1	ug/l	2.0	ND
bis(2-Chloroethoxy)methane	1	ug/l	2.0	ND
bis(2-Chloroethyl)ether	1	ug/l	0.50	ND
bis(2-Chloroisopropyl)ether	1	ug/l	2.0	ND
bis(2-Ethylhexyl)phthalate	1	ug/l	2.0	ND
Butylbenzylphthalate	1	ug/l	2.0	ND
Caprolactam	1	ug/l	2.0	ND
Carbazole	1	ug/l	2.0	ND
Chrysene	1	ug/l	2.0	ND
Dibenzo[a,h]anthracene	1	ug/l	2.0	ND
Dibenzofuran	1	ug/l	0.50	ND
Diethylphthalate	1	ug/l	2.0	ND
Dimethylphthalate	1	ug/l	2.0	ND
Di-n-butylphthalate	1	ug/l	0.50	ND
Di-n-octylphthalate	1	ug/l	2.0	ND
Fluoranthene	1	ug/l	2.0	ND
Fluorene	1	ug/l	2.0	ND
Hexachlorobenzene	1	ug/l	2.0	ND
Hexachlorobutadiene	1	ug/l	2.0	ND
Hexachlorocyclopentadiene	1	ug/l	2.0	ND
Hexachloroethane	1	ug/l	2.0	ND
Indeno[1,2,3-cd]pyrene	1	ug/l	2.0	ND
Isophorone	1	ug/l	2.0	ND
Naphthalene	1	ug/l	0.50	ND
Nitrobenzene	1	ug/l	2.0	ND
N-Nitroso-di-n-propylamine	1	ug/l	0.50	ND
N-Nitrosodiphenylamine	1	ug/l	2.0	ND
Pentachlorophenol	1	ug/l	2.7	ND
Phenanthrene	1	ug/l	2.0	ND
Phenol	1	ug/l	2.0	ND
Pyrene	1	ug/l	2.0	ND

TAL Metals 6010

Analyte	DF	Units	RL	Result
Aluminum	**1**	**ug/l**	**200**	**1000**
Barium	**1**	**ug/l**	**50**	**290**
Calcium	**1**	**ug/l**	**5000**	**160000**
Chromium	1	ug/l	50	ND
Copper	1	ug/l	50	ND
Iron	**1**	**ug/l**	**300**	**3700**
Magnesium	**1**	**ug/l**	**5000**	**130000**
Manganese	**1**	**ug/l**	**40**	**270**
Nickel	1	ug/l	50	ND
Potassium	**1**	**ug/l**	**5000**	**34000**

Sample ID: WC_02232018 **Collection Date:** 2/23/2018
Lab#: AD02799-002 **Receipt Date:** 2/26/2018
Matrix: Aqueous

Silver	1	ug/l	20	ND
Sodium	**2**	**ug/l**	**10000**	**1100000**
Vanadium	1	ug/l	50	ND
Zinc	**1**	**ug/l**	**50**	**72**

TAL Metals 6020

Analyte	DF	Units	RL	Result
Antimony	1	ug/l	3.0	ND
Arsenic	1	ug/l	2.0	ND
Beryllium	1	ug/l	1.0	ND
Cadmium	1	ug/l	2.0	ND
Cobalt	1	ug/l	2.0	ND
Lead	**1**	**ug/l**	**3.0**	**6.4**
Selenium	1	ug/l	10	ND
Thallium	1	ug/l	2.0	ND

Total PetroleumHydrocarbons8015D(C8-C40)

Analyte	DF	Units	RL	Result
Total Petroleum Hydrocarbons	**1**	**ug/l**	**300**	**680**

Volatile Organics (no search) 8260

Analyte	DF	Units	RL	Result
1,1,1-Trichloroethane	1	ug/l	1.0	ND
1,1,2,2-Tetrachloroethane	1	ug/l	1.0	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	1	ug/l	1.0	ND
1,1,2-Trichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethane	1	ug/l	1.0	ND
1,1-Dichloroethene	1	ug/l	1.0	ND
1,2,3-Trichlorobenzene	1	ug/l	1.0	ND
1,2,4-Trichlorobenzene	1	ug/l	1.0	ND
1,2-Dibromo-3-chloropropane	1	ug/l	1.0	ND
1,2-Dibromoethane	1	ug/l	1.0	ND
1,2-Dichlorobenzene	1	ug/l	1.0	ND
1,2-Dichloroethane	1	ug/l	0.50	ND
1,2-Dichloropropane	1	ug/l	1.0	ND
1,3-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dichlorobenzene	1	ug/l	1.0	ND
1,4-Dioxane	1	ug/l	50	ND
2-Butanone	1	ug/l	1.0	ND
2-Hexanone	1	ug/l	1.0	ND
4-Methyl-2-pentanone	1	ug/l	1.0	ND
Acetone	1	ug/l	5.0	ND
Benzene	1	ug/l	0.50	ND
Bromochloromethane	1	ug/l	1.0	ND
Bromodichloromethane	1	ug/l	1.0	ND
Bromoform	1	ug/l	1.0	ND
Bromomethane	1	ug/l	1.0	ND
Carbon disulfide	1	ug/l	1.0	ND
Carbon tetrachloride	1	ug/l	1.0	ND
Chlorobenzene	1	ug/l	1.0	ND
Chloroethane	1	ug/l	1.0	ND
Chloroform	1	ug/l	1.0	ND
Chloromethane	1	ug/l	1.0	ND
cis-1,2-Dichloroethene	1	ug/l	1.0	ND
cis-1,3-Dichloropropene	1	ug/l	1.0	ND
Cyclohexane	1	ug/l	1.0	ND
Dibromochloromethane	1	ug/l	1.0	ND
Dichlorodifluoromethane	1	ug/l	1.0	ND

Sample ID: WC_02232018 **Collection Date:** 2/23/2018
Lab#: AD02799-002 **Receipt Date:** 2/26/2018
Matrix: Aqueous

Ethylbenzene	1	ug/l	1.0	ND
Isopropylbenzene	1	ug/l	1.0	ND
m&p-Xylenes	1	ug/l	1.0	ND
Methyl Acetate	1	ug/l	1.0	ND
Methylcyclohexane	**1**	**ug/l**	**1.0**	**2.0**
Methylene chloride	1	ug/l	1.0	ND
Methyl-t-butyl ether	1	ug/l	0.50	ND
o-Xylene	1	ug/l	1.0	ND
Styrene	1	ug/l	1.0	ND
Tetrachloroethene	1	ug/l	1.0	ND
Toluene	1	ug/l	1.0	ND
trans-1,2-Dichloroethene	1	ug/l	1.0	ND
trans-1,3-Dichloropropene	1	ug/l	1.0	ND
Trichloroethene	1	ug/l	1.0	ND
Trichlorofluoromethane	1	ug/l	1.0	ND
Vinyl chloride	1	ug/l	1.0	ND
Xylenes (Total)	1	ug/l	1.0	ND

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD02799-001
Client Id: RMW-3_02232018
Data File: 3M125840.D
Analysis Date: 03/02/18 12:27
Date Rec/Extracted: 02/26/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 455624

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD02799-002
Client Id: WC_02232018
Data File: 3M125852.D
Analysis Date: 03/02/18 15:47
Date Rec/Extracted: 02/26/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	**108-87-2**	**Methylcyclohexane**	**1.0**	**2.0**
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD02799-002
Client Id: WC_02232018
Data File: 5M103142.D
Analysis Date: 03/01/18 16:26
Date Rec/Extracted: 02/26/18-03/01/18
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	191-24-2	Benzo[g,h,i]perylene	0.50	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	0.50	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	**2,4-Dimethylphenol**	**0.50**	**0.52**	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.50	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.50	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.50	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	2.7	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U				

Worksheet #: 455669

Total Target Concentration 0.52

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD02799-001
Client Id: RMW-3_02232018
Data File: 3G107645.D
Analysis Date: 03/01/18 08:20
Date Rec/Extracted: 02/26/18-02/28/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 455644

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of α-Chlordane and γ-Chlordane.

Form1

ORGANICS PCB REPORT

Sample Number: AD02799-002
Client Id: WC_02232018
Data File: 3G107646.D
Analysis Date: 03/01/18 08:35
Date Rec/Extracted: 02/26/18-02/28/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 455644

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD02799-002
Client Id: WC_02232018
Data File: 4G60131.D
Analysis Date: 03/01/18 12:32
Date Rec/Extracted: 02/26/18-02/28/18
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**300**	**680**				

Worksheet #: 454976

Total Target Concentration 680

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Form1
Inorganic Analysis Data Sheet

Sample ID:	AD02799-002	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	WC_02232018	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	2/26/2018	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	1000	1	50	50	02/28/18	66498	W22208C2	27	P	PEICP2A
7440-39-3	Barium	50	290	1	50	50	02/28/18	66498	W22208C2	27	P	PEICP2A
7440-70-2	Calcium	5000	160000	1	50	50	02/28/18	66498	W22208C2	27	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	02/28/18	66498	W22208C2	27	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	02/28/18	66498	W22208C2	27	P	PEICP2A
7439-89-6	Iron	300	3700	1	50	50	02/28/18	66498	W22208C2	27	P	PEICP2A
7439-95-4	Magnesium	5000	130000	1	50	50	02/28/18	66498	W22208C2	27	P	PEICP2A
7439-96-5	Manganese	40	270	1	50	50	02/28/18	66498	W22208C2	27	P	PEICP2A
7439-97-6	Mercury	0.50	ND	1	25	25	02/27/18	66498	H22208SW	25	CV	HGCV3A
7440-02-0	Nickel	50	ND	1	50	50	02/28/18	66498	W22208C2	27	P	PEICP2A
7440-09-7	Potassium	5000	34000	1	50	50	02/28/18	66498	W22208B2	42	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	02/28/18	66498	W22208C2	27	P	PEICP2A
7440-23-5	Sodium	10000	1100000	2	50	50	02/28/18	66498	W22213A2	37	P	PEICPRAD2A
7440-62-2	Vanadium	50	ND	1	50	50	02/28/18	66498	W22208C2	27	P	PEICP2A
7440-66-6	Zinc	50	72	1	50	50	02/28/18	66498	W22208C2	27	P	PEICP2A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AD02799-002	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	WC_02232018	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	2/26/2018	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	3.0	ND	1	50	100	03/01/18	66498	A030118A	30	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	03/01/18	66498	A030118A	30	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	03/01/18	66498	A030118A	30	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	03/01/18	66498	A030118A	30	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	03/01/18	66498	A030118A	30	MS	MS2_7500SWA
7439-92-1	Lead	3.0	6.4	1	50	100	03/01/18	66498	A030118A	30	MS	MS2_7500SWA
7782-49-2	Selenium	10	ND	1	50	100	03/01/18	66498	A030118A	30	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	03/01/18	66498	A030118A	30	MS	MS2_7500SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD02799-002
Matrix Aqueous
Client SampleID: WC_02232018

Project Number: 8022605
Received Date: 2/26/2018
Collect Date: 2/23/2018

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Cyanide (Reactive)	CN-REACTIVE	1	ND	mg/Kg	0.50	02/28/18	02/28/18
Flash Point	FLASH POINT	1	>141	Deg. F			02/27/18
pH	PH-WATER-MUR	1	8.4	pH			03/01/18
Sulfide (Reactive)	S-REACTIVE	1	ND	mg/kg	100	02/28/18	02/28/18

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
Ph (Service Center): 856-780-6057 Fax: 856-780-6056

Hampton-Clarke WBE/DBE/SBE 800-426-9992

A Women-Owned, Disadvantaged, Small Business Enterprise

NELAC/NJ #07071 | PA #68-00463 | NY #11408 | CT #PH-0671 | KY #90124 | DE HSCA Approved

CHAIN OF CUSTODY RECORD

Project # (Lab Use Only): 8022605

Page 1 of 1

8022605 NN22

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Data Deliv.
When Available:	Summary	NJ Hazsite
1 Business Day (100%)*	Results + QC (Waste)	Excel Reg. NJ / (NY) / PA
2 Business Days (75%)*	Reduced:	EnviroData
3 Business Days (50%)*	[ ] NJ [ ] NY	EQuIS:
4 Business Days (35%)*	[ ] PA [ ] Other___	[✓] 4-File [ ] EZ
5 Business Days (25%)	NJ Full / (NY ASP CatB)	[✓] NYDEC
(8 Business Days (Stand.))	NY ASP CatA	[ ] Region 2 or 5
Other:		Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: PS+S
Address: 1 Larkin Plaza, 2nd Floor
Yonkers, NY 10701
1b) Email/Cell/Fax/Ph: scaporizzo@psands.com
1c) Send Invoice to: Scott Caporizzo 203-252-4015
1d) Send Report to: "

Project Information

2a) Project: Former BICC Cables Site
Yonkers, NY
2b) Project Mgr: Scott Caporizzo
2c) Project Location (City/State): 1 Point St.
Yonkers, NY
2d) Quote/PO # (If Applicable): 56386

FOR LAB USE ONLY ↓

Batch # A802799

===> Check If Contingent ===>

<=== Check If Contingent <===

Matrix Codes
DW - Drinking Water S - Soil A - Air
GW - Ground Water SL - Sludge
WW - Waste Water OL - Oil
OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

8) # of Bottles

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type: Composite (C)	Sample Type: Grab (G)	VOC	PCB	TPH 8015	RCN/RCS	Flash Point	BNA	Metals	pH	None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments
001	RMW-3_02232018	GW	2/23/18	1450		✓	✓	✓							2				✓				
002	WC_02232018	GW	2/23/18	1615	✓		✓	✓	✓	✓	✓	✓	✓	✓	6				✓		1		
																			✓				

10) Relinquished by:	Accepted by:	Date	Time
		2/26/18	8:45
		2/26/18	12:50

11) Sampler (print name): Jeffrey Lombardo Date: 2/23/18

Additional Notes

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):
- [ ] BN or BNA (8270D SIM)
- [ ] VOC (8260C SIM or 8011)
- [ ] SPLP (BN, BNA, Metals)
- [ ] 1,4 Dioxane

For NJ LSRP projects, indicate which standards need to be met:
- [ ] NJDEP GWQS
- [ ] NJDEP SRS
- [ ] NJDEP SPLP
- [ ] Other (specify):

Check if applicable:
- [ ] Project-Specific Reporting Limits
- [ ] High Contaminant Concentrations
- [ ] NJ LSRP Project (also check boxes above/right)

Cooler Temperature: 2.0 2.5

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of $5/sample will be assessed for storage should sample not be activated for any analysis.

Internal use: sampling plan (check box) HC [ ] or client [ ] FSP#

CONDITION UPON RECEIPT

Batch Number AD02799 Entered By: Ricardo
Date Entered 2/26/2018 2:15:00 PM

1	Yes	Is there a corresponding COC included with the samples?
2	Yes	Are the samples in a container such as a cooler or Ice chest?
3	NO	Are the COC seals intact?
4	T0054	<--- Thermometer ID. Please specify the Temperature inside the container (in degC). 2.0,2.5
5	Yes	Are the samples refrigerated (where required)/have they arrived on ice?
6	Yes	Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
7	Yes	Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
8	Yes	Are all of the sample labels or numbers legible? If no specify:
9	Yes	Do the contents match the COC? If no, specify
10	Yes	Is there enough sample sent for the analyses listed on the COC? If no, specify:
11	Yes	Are samples preserved correctly?
12	Yes	Was temperature blank present (Place comment below if not)? If not was temperature of samples verified?
13	NA	Other comments ...Specify
14	NA	Corrective actions (Specify item number and corrective action taken).

PRESERVATION DOCUMENT

Batch Number AD02799

Entered By: Ricardo

Date Entered 2/26/2018 2:15:00 PM

Lab#	Container Size	Container/Vial Check	Parameter	Preservative	Preservative Lot#	PH	pH Lot#
AD02799-001	40ML	G	VO	HCL	169353	1	HC613865
AD02799-002	40ML	G	VO	HCL	169353	1	HC613865
AD02799-002	1L	G	TPH	HCL	183197	1	HC613865
AD02799-002	1L	P	METALS	HNO3	169331	1	HC613865

Chain of Custody Forms

Internal Chain of Custody

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis
AD02799-001	02/26/18 12:50	RICAR	0	M	Received
AD02799-001	02/26/18 14:15	RICAR	0	M	Login
AD02799-001	02/26/18 16:40	R12	1	A	NONE
AD02799-001	02/28/18 10:29	LV	1	A	p/p
AD02799-001	02/26/18 16:40	R12	2	A	NONE
AD02799-001	02/27/18 07:35	R31	3	A	PH/CHECK
AD02799-001	02/27/18 07:37	R31	4	A	NONE
AD02799-001	03/01/18 19:13	WP	4	A	VOA
AD02799-001	02/27/18 07:37	R31	5	A	NONE
AD02799-001	03/02/18 12:02	SG	5	A	VOA
AD02799-001	03/02/18 12:08	SG	5	A	VOA
AD02799-002	02/26/18 12:50	RICAR	0	M	Received
AD02799-002	02/26/18 14:15	RICAR	0	M	Login
AD02799-002	02/27/18 07:35	R31	1	A	PH/CHECK
AD02799-002	03/05/18 12:18	SG	1	A	VOA
AD02799-002	02/27/18 07:37	R31	2	A	NONE
AD02799-002	03/01/18 19:13	WP	2	A	VOA
AD02799-002	02/27/18 07:37	R31	3	A	NONE
AD02799-002	03/02/18 12:08	SG	3	A	VOA
AD02799-002	02/26/18 16:40	R12	4	A	NONE
AD02799-002	03/01/18 08:10	DYR/A	4	A	bn
AD02799-002	02/26/18 16:40	R12	5	A	NONE
AD02799-002	02/26/18 16:40	R12	6	A	NONE
AD02799-002	02/26/18 16:40	R12	7	A	NONE
AD02799-002	02/28/18 10:29	LV	7	A	p/p
AD02799-002	02/26/18 16:40	R12	8	A	NONE
AD02799-002	02/28/18 17:10	SMAR	8	A	tph
AD02799-002	02/26/18 16:40	R12	9	A	NONE
AD02799-002	02/26/18 16:40	R12	10	A	NONE
AD02799-002	02/26/18 16:40	R12	11	A	NONE
AD02799-002	02/26/18 16:40	R12	12	A	NONE
AD02799-002	02/27/18 10:23	BA	12	A	TDWI/HG
AD02799-002	02/27/18 16:04	BA	12	A	R12
AD02799-002	02/26/18 16:40	R12	13	A	NONE
AD02799-002	02/27/18 09:08	SDL	13	A	FLASHPOINT
AD02799-002	02/27/18 16:55	R12	13	A	NONE
AD02799-002	02/28/18 07:50	JMP	13	A	cn/rcn/rs
AD02799-002	03/01/18 09:13	SDL	13	A	PH
AD02799-002	03/01/18 13:08	R12	13	A	NONE

Lab#:	DateTime:	Loc or User	Bot Nu	A/M	Analysis

Samples marked as received are stored in coolers or refrigerator R12, or R24 at 4 deg C until Login

GC/MS Volatile Data

GC/MS Volatile Data
QC Summary

FORM2

Surrogate Recovery

Method: EPA 8260C

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
3M125740.D	DAILY BLANK	A	03/01/18 08:43	1		94	99	95	91		
3M125824.D	DAILY BLANK	A	03/02/18 07:52	1		93	99	96	91		
3M125840.D	AD02799-001	A	03/02/18 12:27	1		93	94	95	102		
3M125852.D	AD02799-002	A	03/02/18 15:47	1		91	87	98	107		
3M125771.D	AD02833-001	A	03/01/18 17:25	1		99	94	95	102		
3M125773.D	MBS67252	A	03/01/18 17:58	1		97	96	93	103		
3M125828.D	MBS67265	A	03/02/18 09:02	1		99	100	94	95		
3M125836.D	AD02833-001(MS)	A	03/02/18 11:17	1		97	96	94	98		
3M125837.D	AD02833-001(MSD)	A	03/02/18 11:35	1		98	96	98	93		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8260C

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=Dibromofluoromethane	30	73-131
S2=1,2-Dichloroethane-d4	30	78-128
S3=Toluene-d8	30	79-111
S4=Bromofluorobenzene	30	82-112

Form3
Recovery Data Laboratory Limits
QC Batch: MBS67252

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M125773.D	MBS67252	3/1/2018 5:58:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	13.2635	0	20	66	50	150
Dichlorodifluoromethane	1	11.2058	0	20	56	50	150
Chloromethane	1	14.6832	0	20	73	50	150
Bromomethane	1	15.1018	0	20	76	50	150
Vinyl Chloride	1	14.947	0	20	75	50	150
Chloroethane	1	20.6635	0	20	103	50	150
Trichlorofluoromethane	1	16.6381	0	20	83	50	150
Ethyl ether	1	18.7079	0	20	94	50	150
Furan	1	17.5516	0	20	88	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	21.4902	0	20	107	50	150
Methylene Chloride	1	18.3135	0	20	92	70	130
Acrolein	1	101.1377	0	100	101	50	150
Acrylonitrile	1	20.4457	0	20	102	50	150
Iodomethane	1	19.1259	0	20	96	50	150
Acetone	1	96.236	0	100	96	50	150
Carbon Disulfide	1	16.5666	0	20	83	50	150
t-Butyl Alcohol	1	89.2608	0	100	89	50	150
n-Hexane	1	18.1202	0	20	91	70	130
Di-isopropyl-ether	1	18.4207	0	20	92	70	130
1,1-Dichloroethene	1	17.2859	0	20	86	70	130
Methyl Acetate	1	18.8151	0	20	94	50	150
Methyl-t-butyl ether	1	18.4619	0	20	92	70	130
1,1-Dichloroethane	1	17.7581	0	20	89	70	130
trans-1,2-Dichloroethene	1	18.9276	0	20	95	70	130
Ethyl-t-butyl ether	1	19.563	0	20	98	70	130
cis-1,2-Dichloroethene	1	19.4828	0	20	97	70	130
Bromochloromethane	1	20.2894	0	20	101	70	130
2,2-Dichloropropane	1	19.3033	0	20	97	70	130
Ethyl acetate	1	21.0557	0	20	105	50	150
1,4-Dioxane	1	939.8395	0	1000	94	50	150
1,1-Dichloropropene	1	17.9493	0	20	90	70	130
Chloroform	1	18.9531	0	20	95	70	130
Cyclohexane	1	18.8034	0	20	94	70	130
1,2-Dichloroethane	1	19.8091	0	20	99	70	130
2-Butanone	1	19.0339	0	20	95	50	150
1,1,1-Trichloroethane	1	17.8379	0	20	89	70	130
Carbon Tetrachloride	1	18.9429	0	20	95	50	150
Vinyl Acetate	1	18.5776	0	20	93	50	150
Bromodichloromethane	1	19.9782	0	20	100	70	130
Methylcyclohexane	1	19.688	0	20	98	70	130
Dibromomethane	1	20.2741	0	20	101	70	130
1,2-Dichloropropane	1	17.9296	0	20	90	70	130
Trichloroethene	1	19.3328	0	20	97	70	130
Benzene	1	18.1934	0	20	91	70	130
tert-Amyl methyl ether	1	18.93	0	20	95	70	130
Iso-propylacetate	1	16.9066	0	20	85	70	130
Methyl methacrylate	1	17.6584	0	20	88	70	130
Dibromochloromethane	1	18.1432	0	20	91	70	130
2-Chloroethylvinylether	1	16.7606	0	20	84	70	130
cis-1,3-Dichloropropene	1	17.1649	0	20	86	70	130
trans-1,3-Dichloropropene	1	17.5264	0	20	88	70	130
Ethyl methacrylate	1	15.9696	0	20	80	70	130
1,1,2-Trichloroethane	1	17.326	0	20	87	70	130
1,2-Dibromoethane	1	18.1098	0	20	91	70	130
1,3-Dichloropropane	1	17.0457	0	20	85	70	130
4-Methyl-2-Pentanone	1	15.9738	0	20	80	50	150
2-Hexanone	1	16.1754	0	20	81	50	150
Tetrachloroethene	1	17.4856	0	20	87	50	150
Toluene	1	16.7581	0	20	84	70	130
1,1,1,2-Tetrachloroethane	1	18.3114	0	20	92	70	130
Chlorobenzene	1	17.871	0	20	89	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Recovery Data Laboratory Limits

QC Batch: MBS67252

n-Butyl acrylate	1	16.0722	0	20	80	70	130
n-Amyl acetate	1	18.1738	0	20	91	70	130
Bromoform	1	17.7265	0	20	89	70	130
Ethylbenzene	1	17.3574	0	20	87	70	130
1,1,2,2-Tetrachloroethane	1	18.0589	0	20	90	70	130
Styrene	1	19.1992	0	20	96	70	130
m&p-Xylenes	1	37.2263	0	40	93	70	130
o-Xylene	1	19.7601	0	20	99	70	130
trans-1,4-Dichloro-2-butene	1	18.3022	0	20	92	50	150
1,3-Dichlorobenzene	1	19.2429	0	20	96	70	130
1,4-Dichlorobenzene	1	20.0141	0	20	100	70	130
1,2-Dichlorobenzene	1	19.1048	0	20	96	70	130
Isopropylbenzene	1	19.4124	0	20	97	70	130
Cyclohexanone	1	94.0286	0	100	94	50	150
Camphene	1	18.3467	0	20	92	70	130
1,2,3-Trichloropropane	1	17.5465	0	20	88	70	130
2-Chlorotoluene	1	19.4088	0	20	97	70	130
p-Ethyltoluene	1	19.3447	0	20	97	70	130
4-Chlorotoluene	1	18.6313	0	20	93	70	130
n-Propylbenzene	1	20.0574	0	20	100	70	130
Bromobenzene	1	18.6641	0	20	93	70	130
1,3,5-Trimethylbenzene	1	21.8371	0	20	109	70	130
Butyl methacrylate	1	16.1402	0	20	81	70	130
t-Butylbenzene	1	20.7189	0	20	104	70	130
1,2,4-Trimethylbenzene	1	19.2307	0	20	96	70	130
sec-Butylbenzene	1	19.9638	0	20	100	70	130
4-Isopropyltoluene	1	20.1832	0	20	101	70	130
n-Butylbenzene	1	18.5607	0	20	93	70	130
p-Diethylbenzene	1	19.1337	0	20	96	70	130
1,2,4,5-Tetramethylbenzene	1	19.8923	0	20	99	70	130
1,2-Dibromo-3-Chloropropane	1	15.3138	0	20	77	50	150
Camphor	1	162.3458	0	200	81	20	150
Hexachlorobutadiene	1	15.5961	0	20	78	50	150
1,2,4-Trichlorobenzene	1	16.4985	0	20	82	70	130
1,2,3-Trichlorobenzene	1	16.8362	0	20	84	70	130
Naphthalene	1	17.2213	0	20	86	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS67265

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M125828.D	MBS67265	3/2/2018 9:02:00 AM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	14.1273	0	20	71	50	150
Dichlorodifluoromethane	1	12.6272	0	20	63	50	150
Chloromethane	1	17.3749	0	20	87	50	150
Bromomethane	1	15.5704	0	20	78	50	150
Vinyl Chloride	1	17.429	0	20	87	50	150
Chloroethane	1	21.2414	0	20	106	50	150
Trichlorofluoromethane	1	17.9056	0	20	90	50	150
Ethyl ether	1	19.5319	0	20	98	50	150
Furan	1	17.6017	0	20	88	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	24.4184	0	20	122	50	150
Methylene Chloride	1	21.0754	0	20	105	70	130
Acrolein	1	105.4743	0	100	105	50	150
Acrylonitrile	1	19.4991	0	20	97	50	150
Iodomethane	1	22.0521	0	20	110	50	150
Acetone	1	109.2948	0	100	109	50	150
Carbon Disulfide	1	19.5586	0	20	98	50	150
t-Butyl Alcohol	1	99.4649	0	100	99	50	150
n-Hexane	1	23.2354	0	20	116	70	130
Di-isopropyl-ether	1	19.4592	0	20	97	70	130
1,1-Dichloroethene	1	19.9523	0	20	100	70	130
Methyl Acetate	1	18.3941	0	20	92	50	150
Methyl-t-butyl ether	1	19.96	0	20	100	70	130
1,1-Dichloroethane	1	20.1454	0	20	101	70	130
trans-1,2-Dichloroethene	1	20.4459	0	20	102	70	130
Ethyl-t-butyl ether	1	20.298	0	20	101	70	130
cis-1,2-Dichloroethene	1	20.6776	0	20	103	70	130
Bromochloromethane	1	16.5688	0	20	83	70	130
2,2-Dichloropropane	1	22.9344	0	20	115	70	130
Ethyl acetate	1	19.8759	0	20	99	50	150
1,4-Dioxane	1	1055.473	0	1000	106	50	150
1,1-Dichloropropene	1	22.259	0	20	111	70	130
Chloroform	1	20.836	0	20	104	70	130
Cyclohexane	1	22.9935	0	20	115	70	130
1,2-Dichloroethane	1	21.009	0	20	105	70	130
2-Butanone	1	23.4868	0	20	117	50	150
1,1,1-Trichloroethane	1	20.567	0	20	103	70	130
Carbon Tetrachloride	1	22.5869	0	20	113	50	150
Vinyl Acetate	1	20.1281	0	20	101	50	150
Bromodichloromethane	1	19.993	0	20	100	70	130
Methylcyclohexane	1	21.8358	0	20	109	70	130
Dibromomethane	1	21.5422	0	20	108	70	130
1,2-Dichloropropane	1	20.8317	0	20	104	70	130
Trichloroethene	1	22.321	0	20	112	70	130
Benzene	1	20.8939	0	20	104	70	130
tert-Amyl methyl ether	1	20.6098	0	20	103	70	130
Iso-propylacetate	1	17.4782	0	20	87	70	130
Methyl methacrylate	1	17.9339	0	20	90	70	130
Dibromochloromethane	1	17.9836	0	20	90	70	130
2-Chloroethylvinylether	1	17.5187	0	20	88	70	130
cis-1,3-Dichloropropene	1	19.4149	0	20	97	70	130
trans-1,3-Dichloropropene	1	17.0768	0	20	85	70	130
Ethyl methacrylate	1	16.9988	0	20	85	70	130
1,1,2-Trichloroethane	1	18.505	0	20	93	70	130
1,2-Dibromoethane	1	18.0023	0	20	90	70	130
1,3-Dichloropropane	1	18.3434	0	20	92	70	130
4-Methyl-2-Pentanone	1	16.4754	0	20	82	50	150
2-Hexanone	1	19.0152	0	20	95	50	150
Tetrachloroethene	1	22.2631	0	20	111	50	150
Toluene	1	18.6734	0	20	93	70	130
1,1,1,2-Tetrachloroethane	1	20.2926	0	20	101	70	130
Chlorobenzene	1	19.7727	0	20	99	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS67265

n-Butyl acrylate	1	15.7293	0	20	79	70	130
n-Amyl acetate	1	17.0507	0	20	85	70	130
Bromoform	1	16.0295	0	20	80	70	130
Ethylbenzene	1	18.32	0	20	92	70	130
1,1,2,2-Tetrachloroethane	1	16.4667	0	20	82	70	130
Styrene	1	18.3686	0	20	92	70	130
m&p-Xylenes	1	36.1499	0	40	90	70	130
o-Xylene	1	19.0362	0	20	95	70	130
trans-1,4-Dichloro-2-butene	1	16.6162	0	20	83	50	150
1,3-Dichlorobenzene	1	18.4162	0	20	92	70	130
1,4-Dichlorobenzene	1	18.8497	0	20	94	70	130
1,2-Dichlorobenzene	1	17.1921	0	20	86	70	130
Isopropylbenzene	1	18.1335	0	20	91	70	130
Cyclohexanone	1	163.7695	0	100	164*	50	150
Camphene	1	19.2331	0	20	96	70	130
1,2,3-Trichloropropane	1	17.0878	0	20	85	70	130
2-Chlorotoluene	1	17.9288	0	20	90	70	130
p-Ethyltoluene	1	19.2333	0	20	96	70	130
4-Chlorotoluene	1	17.8584	0	20	89	70	130
n-Propylbenzene	1	18.343	0	20	92	70	130
Bromobenzene	1	18.1323	0	20	91	70	130
1,3,5-Trimethylbenzene	1	20.5713	0	20	103	70	130
Butyl methacrylate	1	15.5715	0	20	78	70	130
t-Butylbenzene	1	19.0507	0	20	95	70	130
1,2,4-Trimethylbenzene	1	18.6364	0	20	93	70	130
sec-Butylbenzene	1	18.4219	0	20	92	70	130
4-Isopropyltoluene	1	18.2279	0	20	91	70	130
n-Butylbenzene	1	17.5161	0	20	88	70	130
p-Diethylbenzene	1	17.7711	0	20	89	70	130
1,2,4,5-Tetramethylbenzene	1	19.0853	0	20	95	70	130
1,2-Dibromo-3-Chloropropane	1	14.9281	0	20	75	50	150
Camphor	1	179.8762	0	200	90	20	150
Hexachlorobutadiene	1	14.4619	0	20	72	50	150
1,2,4-Trichlorobenzene	1	16.4683	0	20	82	70	130
1,2,3-Trichlorobenzene	1	17.2495	0	20	86	70	130
Naphthalene	1	17.2796	0	20	86	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS67265

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M125836.D	AD02833-001(MS)	3/2/2018 11:17:00 AM
Non Spike(If applicable): 3M125771.D	AD02833-001	3/1/2018 5:25:00 PM
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	11.6071	0	20	58	50	150
Dichlorodifluoromethane	1	11.6146	0	20	58	50	150
Chloromethane	1	15.9783	0	20	80	50	150
Bromomethane	1	12.1952	0	20	61	50	150
Vinyl Chloride	1	15.7311	0	20	79	50	150
Chloroethane	1	18.8917	0	20	94	50	150
Trichlorofluoromethane	1	14.7836	0	20	74	50	150
Ethyl ether	1	17.9383	0	20	90	50	150
Furan	1	15.1618	0	20	76	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	21.2965	0	20	106	50	150
Methylene Chloride	1	17.3342	0	20	87	70	130
Acrolein	1	93.4672	0	100	93	50	150
Acrylonitrile	1	17.9873	0	20	90	50	150
Iodomethane	1	18.3805	0	20	92	50	150
Acetone	1	91.6056	0	100	92	50	150
Carbon Disulfide	1	18.5926	0	20	93	50	150
t-Butyl Alcohol	1	91.2169	0	100	91	50	150
n-Hexane	1	15.6924	0	20	78	70	130
Di-isopropyl-ether	1	17.8018	0	20	89	70	130
1,1-Dichloroethene	1	19.0003	0	20	95	70	130
Methyl Acetate	1	16.7737	0	20	84	50	150
Methyl-t-butyl ether	1	17.4827	0	20	87	70	130
1,1-Dichloroethane	1	17.9344	0	20	90	70	130
trans-1,2-Dichloroethene	1	18.5524	0	20	93	70	130
Ethyl-t-butyl ether	1	18.0902	0	20	90	70	130
cis-1,2-Dichloroethene	1	19.0989	0	20	95	70	130
Bromochloromethane	1	15.407	0	20	77	70	130
2,2-Dichloropropane	1	15.3698	0	20	77	70	130
Ethyl acetate	1	18.619	0	20	93	50	150
1,4-Dioxane	1	973.7199	0	1000	97	50	150
1,1-Dichloropropene	1	18.782	0	20	94	70	130
Chloroform	1	17.333	0	20	87	70	130
Cyclohexane	1	19.3834	0	20	97	70	130
1,2-Dichloroethane	1	18.2382	0	20	91	70	130
2-Butanone	1	16.8391	0	20	84	50	150
1,1,1-Trichloroethane	1	18.73	0	20	94	70	130
Carbon Tetrachloride	1	20.4673	0	20	102	50	150
Vinyl Acetate	1	17.6275	0	20	88	50	150
Bromodichloromethane	1	18.7636	0	20	94	70	130
Methylcyclohexane	1	17.6978	0	20	88	70	130
Dibromomethane	1	19.5438	0	20	98	70	130
1,2-Dichloropropane	1	18.065	0	20	90	70	130
Trichloroethene	1	20.0085	0	20	100	70	130
Benzene	1	18.1289	0	20	91	70	130
tert-Amyl methyl ether	1	17.5891	0	20	88	70	130
Iso-propylacetate	1	15.6394	0	20	78	70	130
Methyl methacrylate	1	15.3348	0	20	77	70	130
Dibromochloromethane	1	16.4995	0	20	82	70	130
2-Chloroethylvinylether	1	0	0	20	0*	70	130
cis-1,3-Dichloropropene	1	15.8079	0	20	79	70	130
trans-1,3-Dichloropropene	1	15.1108	0	20	76	70	130
Ethyl methacrylate	1	15.6823	0	20	78	70	130
1,1,2-Trichloroethane	1	16.6798	0	20	83	70	130
1,2-Dibromoethane	1	16.2995	0	20	81	70	130
1,3-Dichloropropane	1	17.3033	0	20	87	70	130
4-Methyl-2-Pentanone	1	15.2969	0	20	76	50	150
2-Hexanone	1	16.8578	0	20	84	50	150
Tetrachloroethene	1	22.3436	0	20	112	50	150
Toluene	1	16.0775	0	20	80	70	130
1,1,1,2-Tetrachloroethane	1	17.8666	0	20	89	70	130
Chlorobenzene	1	17.3738	0	20	87	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Recovery Data Laboratory Limits

QC Batch: MBS67265

n-Butyl acrylate	1	14.1351	0	20	71	70	130
n-Amyl acetate	1	15.3653	0	20	77	70	130
Bromoform	1	16.31	0	20	82	70	130
Ethylbenzene	1	16.747	0	20	84	70	130
1,1,2,2-Tetrachloroethane	1	14.6719	0	20	73	70	130
Styrene	1	16.3656	0	20	82	70	130
m&p-Xylenes	1	34.6322	0	40	87	70	130
o-Xylene	1	17.4869	0	20	87	70	130
trans-1,4-Dichloro-2-butene	1	10.9597	0	20	55	50	150
1,3-Dichlorobenzene	1	16.8334	0	20	84	70	130
1,4-Dichlorobenzene	1	16.3982	0	20	82	70	130
1,2-Dichlorobenzene	1	16.6063	0	20	83	70	130
Isopropylbenzene	1	16.9061	0	20	85	70	130
Cyclohexanone	1	82.3892	0	100	82	50	150
Camphene	1	3.5495	0	20	18*	70	130
1,2,3-Trichloropropane	1	15.6241	0	20	78	70	130
2-Chlorotoluene	1	15.8859	0	20	79	70	130
p-Ethyltoluene	1	16.5938	0	20	83	70	130
4-Chlorotoluene	1	16.1415	0	20	81	70	130
n-Propylbenzene	1	16.6678	0	20	83	70	130
Bromobenzene	1	15.195	0	20	76	70	130
1,3,5-Trimethylbenzene	1	19.4449	0	20	97	70	130
Butyl methacrylate	1	14.7659	0	20	74	70	130
t-Butylbenzene	1	17.5078	0	20	88	70	130
1,2,4-Trimethylbenzene	1	15.601	0	20	78	70	130
sec-Butylbenzene	1	16.1472	0	20	81	70	130
4-Isopropyltoluene	1	16.4179	0	20	82	70	130
n-Butylbenzene	1	15.2422	0	20	76	70	130
p-Diethylbenzene	1	16.0226	0	20	80	70	130
1,2,4,5-Tetramethylbenzene	1	15.1867	0	20	76	70	130
1,2-Dibromo-3-Chloropropane	1	12.4297	0	20	62	50	150
Camphor	1	169.2207	0	200	85	20	150
Hexachlorobutadiene	1	11.891	0	20	59	50	150
1,2,4-Trichlorobenzene	1	13.5476	0	20	68*	70	130
1,2,3-Trichlorobenzene	1	13.5097	0	20	68*	70	130
Naphthalene	1	14.5349	0	20	73	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS67265

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M125837.D	AD02833-001(MSD)	3/2/2018 11:35:00 AM
Non Spike(If applicable): 3M125771.D	AD02833-001	3/1/2018 5:25:00 PM
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	11.1191	0	20	56	50	150
Dichlorodifluoromethane	1	10.0182	0	20	50	50	150
Chloromethane	1	14.5897	0	20	73	50	150
Bromomethane	1	13.8008	0	20	69	50	150
Vinyl Chloride	1	15.807	0	20	79	50	150
Chloroethane	1	19.1128	0	20	96	50	150
Trichlorofluoromethane	1	16.2621	0	20	81	50	150
Ethyl ether	1	16.2322	0	20	81	50	150
Furan	1	15.3684	0	20	77	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	20.7849	0	20	104	50	150
Methylene Chloride	1	16.2074	0	20	81	70	130
Acrolein	1	87.3735	0	100	87	50	150
Acrylonitrile	1	16.6673	0	20	83	50	150
Iodomethane	1	16.7922	0	20	84	50	150
Acetone	1	88.1311	0	100	88	50	150
Carbon Disulfide	1	17.4955	0	20	87	50	150
t-Butyl Alcohol	1	82.2076	0	100	82	50	150
n-Hexane	1	14.9001	0	20	75	70	130
Di-isopropyl-ether	1	16.4896	0	20	82	70	130
1,1-Dichloroethene	1	17.4028	0	20	87	70	130
Methyl Acetate	1	15.3344	0	20	77	50	150
Methyl-t-butyl ether	1	17.0123	0	20	85	70	130
1,1-Dichloroethane	1	16.99	0	20	85	70	130
trans-1,2-Dichloroethene	1	18.3418	0	20	92	70	130
Ethyl-t-butyl ether	1	17.3885	0	20	87	70	130
cis-1,2-Dichloroethene	1	18.001	0	20	90	70	130
Bromochloromethane	1	14.5733	0	20	73	70	130
2,2-Dichloropropane	1	14.647	0	20	73	70	130
Ethyl acetate	1	15.7539	0	20	79	50	150
1,4-Dioxane	1	978.8061	0	1000	98	50	150
1,1-Dichloropropene	1	18.1071	0	20	91	70	130
Chloroform	1	17.1583	0	20	86	70	130
Cyclohexane	1	18.9164	0	20	95	70	130
1,2-Dichloroethane	1	18.5192	0	20	93	70	130
2-Butanone	1	21.631	0	20	108	50	150
1,1,1-Trichloroethane	1	18.0623	0	20	90	70	130
Carbon Tetrachloride	1	19.6928	0	20	98	50	150
Vinyl Acetate	1	17.0539	0	20	85	50	150
Bromodichloromethane	1	17.4935	0	20	87	70	130
Methylcyclohexane	1	17.7042	0	20	89	70	130
Dibromomethane	1	18.3965	0	20	92	70	130
1,2-Dichloropropane	1	17.3527	0	20	87	70	130
Trichloroethene	1	19.5141	0	20	98	70	130
Benzene	1	17.5707	0	20	88	70	130
tert-Amyl methyl ether	1	17.0447	0	20	85	70	130
Iso-propylacetate	1	15.5021	0	20	78	70	130
Methyl methacrylate	1	16.5082	0	20	83	70	130
Dibromochloromethane	1	16.7662	0	20	84	70	130
2-Chloroethylvinylether	1	0	0	20	0*	70	130
cis-1,3-Dichloropropene	1	16.1119	0	20	81	70	130
trans-1,3-Dichloropropene	1	15.8538	0	20	79	70	130
Ethyl methacrylate	1	15.3619	0	20	77	70	130
1,1,2-Trichloroethane	1	16.8552	0	20	84	70	130
1,2-Dibromoethane	1	15.9622	0	20	80	70	130
1,3-Dichloropropane	1	16.6942	0	20	83	70	130
4-Methyl-2-Pentanone	1	15.0661	0	20	75	50	150
2-Hexanone	1	15.4079	0	20	77	50	150
Tetrachloroethene	1	18.512	0	20	93	50	150
Toluene	1	16.3181	0	20	82	70	130
1,1,1,2-Tetrachloroethane	1	18.4656	0	20	92	70	130
Chlorobenzene	1	16.7648	0	20	84	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS67265

n-Butyl acrylate	1	13.6038	0	20	68*	70	130
n-Amyl acetate	1	14.4406	0	20	72	70	130
Bromoform	1	14.9858	0	20	75	70	130
Ethylbenzene	1	15.9775	0	20	80	70	130
1,1,2,2-Tetrachloroethane	1	14.4585	0	20	72	70	130
Styrene	1	15.5894	0	20	78	70	130
m&p-Xylenes	1	32.0198	0	40	80	70	130
o-Xylene	1	16.3222	0	20	82	70	130
trans-1,4-Dichloro-2-butene	1	10.2603	0	20	51	50	150
1,3-Dichlorobenzene	1	15.8948	0	20	79	70	130
1,4-Dichlorobenzene	1	15.3741	0	20	77	70	130
1,2-Dichlorobenzene	1	15.3164	0	20	77	70	130
Isopropylbenzene	1	16.1098	0	20	81	70	130
Cyclohexanone	1	70.105	0	100	70	50	150
Camphene	1	2.9075	0	20	15*	70	130
1,2,3-Trichloropropane	1	14.7245	0	20	74	70	130
2-Chlorotoluene	1	15.1791	0	20	76	70	130
p-Ethyltoluene	1	16.835	0	20	84	70	130
4-Chlorotoluene	1	15.208	0	20	76	70	130
n-Propylbenzene	1	15.9397	0	20	80	70	130
Bromobenzene	1	14.4631	0	20	72	70	130
1,3,5-Trimethylbenzene	1	15.2886	0	20	76	70	130
Butyl methacrylate	1	12.9452	0	20	65*	70	130
t-Butylbenzene	1	15.7608	0	20	79	70	130
1,2,4-Trimethylbenzene	1	14.9579	0	20	75	70	130
sec-Butylbenzene	1	15.2158	0	20	76	70	130
4-Isopropyltoluene	1	15.6662	0	20	78	70	130
n-Butylbenzene	1	14.2302	0	20	71	70	130
p-Diethylbenzene	1	14.2312	0	20	71	70	130
1,2,4,5-Tetramethylbenzene	1	14.4867	0	20	72	70	130
1,2-Dibromo-3-Chloropropane	1	13.2625	0	20	66	50	150
Camphor	1	176.1335	0	200	88	20	150
Hexachlorobutadiene	1	11.2676	0	20	56	50	150
1,2,4-Trichlorobenzene	1	13.2448	0	20	66*	70	130
1,2,3-Trichlorobenzene	1	13.2774	0	20	66*	70	130
Naphthalene	1	14.5325	0	20	73	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: MBS67265

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M125837.D	AD02833-001(MSD)	3/2/2018 11:35:00 AM
Duplicate(If applicable):	3M125836.D	AD02833-001(MS)	3/2/2018 11:17:00 AM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	11.1191	11.6071	4.3	30
Dichlorodifluoromethane	1	10.0182	11.6146	15	30
Chloromethane	1	14.5897	15.9783	9.1	30
Bromomethane	1	13.8008	12.1952	12	30
Vinyl Chloride	1	15.807	15.7311	0.48	40
Chloroethane	1	19.1128	18.8917	1.2	30
Trichlorofluoromethane	1	16.2621	14.7836	9.5	30
Ethyl ether	1	16.2322	17.9383	10	30
Furan	1	15.3684	15.1618	1.4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	20.7849	21.2965	2.4	30
Methylene Chloride	1	16.2074	17.3342	6.7	30
Acrolein	1	87.3735	93.4672	6.7	30
Acrylonitrile	1	16.6673	17.9873	7.6	30
Iodomethane	1	16.7922	18.3805	9	30
Acetone	1	88.1311	91.6056	3.9	30
Carbon Disulfide	1	17.4955	18.5926	6.1	30
t-Butyl Alcohol	1	82.2076	91.2169	10	30
n-Hexane	1	14.9001	15.6924	5.2	30
Di-isopropyl-ether	1	16.4896	17.8018	7.7	30
1,1-Dichloroethene	1	17.4028	19.0003	8.8	40
Methyl Acetate	1	15.3344	16.7737	9	30
Methyl-t-butyl ether	1	17.0123	17.4827	2.7	30
1,1-Dichloroethane	1	16.99	17.9344	5.4	40
trans-1,2-Dichloroethene	1	18.3418	18.5524	1.1	30
Ethyl-t-butyl ether	1	17.3885	18.0902	4	30
cis-1,2-Dichloroethene	1	18.001	19.0989	5.9	30
Bromochloromethane	1	14.5733	15.407	5.6	30
2,2-Dichloropropane	1	14.647	15.3698	4.8	30
Ethyl acetate	1	15.7539	18.619	17	30
1,4-Dioxane	1	978.8061	973.7199	0.52	30
1,1-Dichloropropene	1	18.1071	18.782	3.7	30
Chloroform	1	17.1583	17.333	1	40
Cyclohexane	1	18.9164	19.3834	2.4	30
1,2-Dichloroethane	1	18.5192	18.2382	1.5	40
2-Butanone	1	21.631	16.8391	25	40
1,1,1-Trichloroethane	1	18.0623	18.73	3.6	30
Carbon Tetrachloride	1	19.6928	20.4673	3.9	40
Vinyl Acetate	1	17.0539	17.6275	3.3	30
Bromodichloromethane	1	17.4935	18.7636	7	30
Methylcyclohexane	1	17.7042	17.6978	0.04	30
Dibromomethane	1	18.3965	19.5438	6	30
1,2-Dichloropropane	1	17.3527	18.065	4	30
Trichloroethene	1	19.5141	20.0085	2.5	40
Benzene	1	17.5707	18.1289	3.1	40
tert-Amyl methyl ether	1	17.0447	17.5891	3.1	30
Iso-propylacetate	1	15.5021	15.6394	0.88	30
Methyl methacrylate	1	16.5082	15.3348	7.4	30
Dibromochloromethane	1	16.7662	16.4995	1.6	30
2-Chloroethylvinylether	1	0	0	NA	30
cis-1,3-Dichloropropene	1	16.1119	15.8079	1.9	30
trans-1,3-Dichloropropene	1	15.8538	15.1108	4.8	30
Ethyl methacrylate	1	15.3619	15.6823	2.1	30
1,1,2-Trichloroethane	1	16.8552	16.6798	1	30
1,2-Dibromoethane	1	15.9622	16.2995	2.1	30
1,3-Dichloropropane	1	16.6942	17.3033	3.6	30
4-Methyl-2-Pentanone	1	15.0661	15.2969	1.5	30
2-Hexanone	1	15.4079	16.8578	9	30
Tetrachloroethene	1	18.512	22.3436	19	40
Toluene	1	16.3181	16.0775	1.5	40
1,1,1,2-Tetrachloroethane	1	18.4656	17.8666	3.3	30
Chlorobenzene	1	16.7648	17.3738	3.6	40
n-Butyl acrylate	1	13.6038	14.1351	3.8	30
n-Amyl acetate	1	14.4406	15.3653	6.2	30

Form3
RPD Data Laboratory Limits
QC Batch: MBS67265

Bromoform	1	14.9858	16.31	8.5	30
Ethylbenzene	1	15.9775	16.747	4.7	30
1,1,2,2-Tetrachloroethane	1	14.4585	14.6719	1.5	30
Styrene	1	15.5894	16.3656	4.9	30
m&p-Xylenes	1	32.0198	34.6322	7.8	30
o-Xylene	1	16.3222	17.4869	6.9	30
trans-1,4-Dichloro-2-butene	1	10.2603	10.9597	6.6	30
1,3-Dichlorobenzene	1	15.8948	16.8334	5.7	30
1,4-Dichlorobenzene	1	15.3741	16.3982	6.4	40
1,2-Dichlorobenzene	1	15.3164	16.6063	8.1	40
Isopropylbenzene	1	16.1098	16.9061	4.8	30
Cyclohexanone	1	70.105	82.3892	16	30
Camphene	1	2.9075	3.5495	20	30
1,2,3-Trichloropropane	1	14.7245	15.6241	5.9	30
2-Chlorotoluene	1	15.1791	15.8859	4.6	30
p-Ethyltoluene	1	16.835	16.5938	1.4	30
4-Chlorotoluene	1	15.208	16.1415	6	30
n-Propylbenzene	1	15.9397	16.6678	4.5	40
Bromobenzene	1	14.4631	15.195	4.9	30
1,3,5-Trimethylbenzene	1	15.2886	19.4449	24	30
Butyl methacrylate	1	12.9452	14.7659	13	30
t-Butylbenzene	1	15.7608	17.5078	11	30
1,2,4-Trimethylbenzene	1	14.9579	15.601	4.2	30
sec-Butylbenzene	1	15.2158	16.1472	5.9	40
4-Isopropyltoluene	1	15.6662	16.4179	4.7	30
n-Butylbenzene	1	14.2302	15.2422	6.9	30
p-Diethylbenzene	1	14.2312	16.0226	12	30
1,2,4,5-Tetramethylbenzene	1	14.4867	15.1867	4.7	30
1,2-Dibromo-3-Chloropropane	1	13.2625	12.4297	6.5	30
Camphor	1	176.1335	169.2207	4	30
Hexachlorobutadiene	1	11.2676	11.891	5.4	30
1,2,4-Trichlorobenzene	1	13.2448	13.5476	2.3	30
1,2,3-Trichlorobenzene	1	13.2774	13.5097	1.7	30
Naphthalene	1	14.5325	14.5349	0.02	30

* - Indicates outside of limits

NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 3M125740.D
Matrix: Aqueous

Blank Analysis Date: 03/01/18 08:43
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260C

Sample Number	Data File	Analysis Date
MBS67252	3M125773.D	03/01/18 17:58
AD02833-001	3M125771.D	03/01/18 17:25

FORM 4
Blank Summary

Blank Number: DAILY BLANK
Blank Data File: 3M125824.D
Matrix: Aqueous

Blank Analysis Date: 03/02/18 07:52
Blank Extraction Date: NA
(If Applicable)
Method: EPA 8260C

Sample Number	Data File	Analysis Date
AD02799-001	3M125840.D	03/02/18 12:27
AD02799-002	3M125852.D	03/02/18 15:47
AD02833-001(MSD	3M125837.D	03/02/18 11:35
AD02833-001(MS)	3M125836.D	03/02/18 11:17
MBS67265	3M125828.D	03/02/18 09:02

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 3
Data File: 3M125263.D
Analysis Date: 02/21/18 07:06
Method: EPA 8260C

Tune Scan/Time Range: Average of 4.936 to 4.975 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	19.9	3471	PASS
75	95	30	60	51.3	8945	PASS
95	95	100	100	100.0	17446	PASS
96	95	5	9	7.7	1340	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	74.1	12923	PASS
175	174	5	9	7.0	899	PASS
176	174	95	101	98.8	12769	PASS
177	176	5	9	6.2	791	PASS

Data File	Sample Number	Analysis Date:
3M125265.D	BLK	02/21/18 07:24
3M125267.D	CAL @ 500 PPB	02/21/18 07:58
3M125269.D	CAL @ 250 PPB	02/21/18 08:31
3M125271.D	CAL @ 100 PPB	02/21/18 09:05
3M125273.D	CAL @ 50 PPB	02/21/18 09:38
3M125275.D	CAL @ 20 PPB	02/21/18 10:12
3M125281.D	CAL @ 0.5 PPB	02/21/18 11:52
3M125282.D	CAL @ 1 PPB	02/21/18 12:09
3M125283.D	CAL @ 5 PPB	02/21/18 12:25
3M125284.D	CAL @ 10 PPB	02/21/18 12:42
3M125287.D	ICV	02/21/18 13:32
3M125289.D	DAILY BLANK	02/21/18 14:06
3M125290.D	DAILY BLANK	02/21/18 14:22
3M125291.D	AD02645-002	02/21/18 14:39
3M125292.D	AD02650-001	02/21/18 14:56
3M125293.D	MBS66857	02/21/18 15:12
3M125294.D	MBS66858	02/21/18 15:29
3M125295.D	AD02672-005(MS)	02/21/18 15:46
3M125296.D	AD02672-005(MSD	02/21/18 16:02

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 3
Data File: 3M125734.D
Analysis Date: 03/01/18 07:10
Method: EPA 8260C

Tune Scan/Time Range: Average of 4.951 to 4.980 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	24.2	3883	PASS
75	95	30	60	54.7	8781	PASS
95	95	100	100	100.0	16043	PASS
96	95	5	9	8.1	1304	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	75.5	12114	PASS
175	174	5	9	7.4	893	PASS
176	174	95	101	98.9	11978	PASS
177	176	5	9	8.3	997	PASS

Data File	Sample Number	Analysis Date:
3M125736.D	CAL @ 20 PPB	03/01/18 07:34
3M125738.D	BLK	03/01/18 08:09
3M125739.D	DAILY BLANK	03/01/18 08:26
3M125740.D	DAILY BLANK	03/01/18 08:43
3M125741.D	02669-005	03/01/18 09:00
3M125742.D	02669-006	03/01/18 09:17
3M125743.D	02669-004	03/01/18 09:33
3M125744.D	MBS67243	03/01/18 09:51
3M125745.D	AD02780-002	03/01/18 10:07
3M125746.D	AD02780-004	03/01/18 10:25
3M125747.D	EF-1V-273982(022	03/01/18 10:43
3M125748.D	AD02787-002	03/01/18 11:00
3M125749.D	AD02694-003	03/01/18 11:16
3M125750.D	AD02694-002	03/01/18 11:33
3M125751.D	AD02694-001	03/01/18 11:50
3M125752.D	AD02793-007	03/01/18 12:06
3M125753.D	AD02787-001	03/01/18 12:23
3M125754.D	AD02780-005(10X)	03/01/18 12:40
3M125755.D	MBS67247	03/01/18 12:57
3M125756.D	AD02807-001	03/01/18 13:14
3M125757.D	AD02811-006	03/01/18 13:31
3M125758.D	AD02649-001(400u	03/01/18 13:47
3M125759.D	AD02720-007(MSD	03/01/18 14:04
3M125760.D	AD02649-001(40uL	03/01/18 14:21
3M125761.D	02720-006	03/01/18 14:37
3M125762.D	AD02720-007	03/01/18 14:54
3M125763.D	AD02811-006	03/01/18 15:11
3M125764.D	AD02720-007(MS)	03/01/18 15:28
3M125765.D	AD02748-001(10X)	03/01/18 15:45
3M125766.D	AD02833-001	03/01/18 16:01
3M125767.D	MBS67250	03/01/18 16:18
3M125768.D	MBS67251	03/01/18 16:34
3M125769.D	AD02694-001(MS)	03/01/18 16:51
3M125770.D	AD02694-001(MSD	03/01/18 17:08
3M125771.D	AD02833-001	03/01/18 17:25
3M125772.D	AD02780-004	03/01/18 17:42
3M125773.D	MBS67252	03/01/18 17:58
3M125774.D	MBS67253	03/01/18 18:14

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 3
Data File: 3M125819.D
Analysis Date: 03/02/18 06:27
Method: EPA 8260C

Tune Scan/Time Range: Average of 5.113 to 5.133 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	18.7	5561	PASS
75	95	30	60	45.1	13426	PASS
95	95	100	100	100.0	29755	PASS
96	95	5	9	7.3	2183	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	77.0	22917	PASS
175	174	5	9	8.1	1864	PASS
176	174	95	101	96.2	22051	PASS
177	176	5	9	6.2	1367	PASS

Data File	Sample Number	Analysis Date:
3M125820.D	CAL @ 20 PPB	03/02/18 06:44
3M125822.D	BLK	03/02/18 07:18
3M125823.D	DAILY BLANK	03/02/18 07:35
3M125824.D	DAILY BLANK	03/02/18 07:52
3M125825.D	AD02834-002	03/02/18 08:12
3M125826.D	AD02834-001	03/02/18 08:29
3M125827.D	MBS67264	03/02/18 08:46
3M125828.D	MBS67265	03/02/18 09:02
3M125829.D	AD02865-010	03/02/18 09:20
3M125830.D	AD02780-003	03/02/18 09:36
3M125831.D	AD02780-006	03/02/18 09:53
3M125832.D	AD02813-004	03/02/18 10:10
3M125833.D	AD02813-003	03/02/18 10:27
3M125834.D	AD02736-008(MS)	03/02/18 10:44
3M125835.D	AD02813-002	03/02/18 11:01
3M125836.D	AD02833-001(MS)	03/02/18 11:17
3M125837.D	AD02833-001(MSD	03/02/18 11:35
3M125838.D	AD02736-008(MSD	03/02/18 11:51
3M125839.D	AD02831-001	03/02/18 12:10
3M125840.D	AD02799-001	03/02/18 12:27
3M125841.D	AD02799-002	03/02/18 12:44
3M125842.D	AD02829-001	03/02/18 13:00
3M125843.D	AD02775-001(50X)	03/02/18 13:17
3M125844.D	AD02872-001(20X)	03/02/18 13:34
3M125845.D	MBS67270	03/02/18 13:50
3M125846.D	MBS67271	03/02/18 14:07
3M125847.D	MBS67272	03/02/18 14:23
3M125848.D	MBS67273	03/02/18 14:40
3M125849.D	MBS67276	03/02/18 14:57
3M125850.D	MBS67278	03/02/18 15:13
3M125851.D	MBS67279	03/02/18 15:30
3M125852.D	AD02799-002	03/02/18 15:47
3M125853.D	AD02781-002	03/02/18 16:03
3M125854.D	AD02781-001	03/02/18 16:20
3M125855.D	AD02775-001(10X)	03/02/18 16:36
3M125856.D	AD02840-004	03/02/18 16:53
3M125857.D	AD02836-002	03/02/18 17:10
3M125858.D	AD02835-001	03/02/18 17:26

8022605 0045

FORM8

Internal Standard Areas

Evaluation Std Data File: 3M125275.D Method: EPA 8260C

Analysis Date/Time: 02/21/18 10:12

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	314974	4.94	241752	6.77	105038	8.21								
Eval File Area Limit:	157487-629948		120876-483504		52519-210076									
Eval File Rt Limit:	4.44-5.44		6.27-7.27		7.71-8.71									

Data File	Sample						
3M125265.D	BLK	277048	4.94	214430	6.77	90204	8.21
3M125267.D	CAL @ 500 PPB	285517	4.94	216249	6.77	83955	8.21
3M125269.D	CAL @ 250 PPB	290589	4.94	222125	6.77	92255	8.21
3M125271.D	CAL @ 100 PPB	311819	4.95	240979	6.78	97312	8.22
3M125273.D	CAL @ 50 PPB	297035	4.94	237279	6.77	95829	8.21
3M125275.D	CAL @ 20 PPB	314974	4.94	241752	6.77	105038	8.21
3M125281.D	CAL @ 0.5 PPB	304201	4.94	229725	6.77	96407	8.21
3M125282.D	CAL @ 1 PPB	314772	4.94	238770	6.77	107685	8.21
3M125283.D	CAL @ 5 PPB	317078	4.94	238991	6.77	107957	8.21
3M125284.D	CAL @ 10 PPB	279249	4.94	219722	6.77	95197	8.21
3M125287.D	ICV	303754	4.94	232663	6.77	102899	8.21
3M125289.D	DAILY BLANK	312401	4.94	241067	6.77	104987	8.21
3M125290.D	DAILY BLANK	311171	4.94	235924	6.77	104747	8.21
3M125291.D	AD02645-002	312540	4.93	238316	6.77	107467	8.21
3M125292.D	AD02650-001	309788	4.93	245160	6.77	111877	8.21
3M125293.D	MBS66857	294299	4.94	235419	6.77	99882	8.21
3M125294.D	MBS66858	320794	4.94	253337	6.77	109570	8.21
3M125295.D	AD02672-005(MS)	290391	4.94	233207	6.78	101103	8.21
3M125296.D	AD02672-005(MSD)	319004	4.94	258125	6.77	112273	8.21

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

8022605 0046

FORM8

Internal Standard Areas

Evaluation Std Data File: 3M125736.D Method: EPA 8260C

Analysis Date/Time: 03/01/18 07:34

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	392531	4.96	332641	6.79	140627	8.23								
Eval File Area Limit:	196266-785062		166320-665282		70314-281254									
Eval File Rt Limit:	4.46-5.46		6.29-7.29		7.73-8.73									

Data File	Sample						
3M125738.D	BLK	396196	4.95	316740	6.78	136167	8.23
3M125739.D	DAILY BLANK	415389	4.96	353336	6.80	155183	8.24
3M125740.D	DAILY BLANK	389533	4.96	327955	6.78	145806	8.23
3M125741.D	02669-005	428464	4.95	344254	6.78	143991	8.23
3M125742.D	02669-006	302848	4.96	256169	6.78	111141	8.23
3M125743.D	02669-004	397399	4.95	333180	6.78	147687	8.23
3M125744.D	MBS67243	409107	4.96	353335	6.78	158472	8.23
3M125745.D	AD02780-002	419262	4.95	342509	6.78	148668	8.23
3M125746.D	AD02780-004	428049	4.95	345326	6.78	152814	8.23
3M125747.D	EF-1V-273982(022218	387462	4.95	329932	6.78	146517	8.23
3M125748.D	AD02787-002	442330	4.95	369028	6.78	156060	8.23
3M125749.D	AD02694-003	390824	4.96	323359	6.78	145751	8.23
3M125750.D	AD02694-002	403829	4.96	331202	6.79	150837	8.23
3M125751.D	AD02694-001	388068	4.95	322998	6.78	143187	8.23
3M125752.D	AD02793-007	365747	4.95	299107	6.78	118428	8.23
3M125753.D	AD02787-001	412993	4.96	340755	6.78	149026	8.23
3M125754.D	AD02780-005(10X)	387087	4.96	332352	6.78	143195	8.23
3M125755.D	MBS67247	419631	4.95	362741	6.78	160069	8.23
3M125756.D	AD02807-001	389798	4.95	334715	6.78	154252	8.23
3M125757.D	AD02811-006	400876	4.95	339046	6.79	158718	8.23
3M125758.D	AD02649-001(400uL)	468603	4.95	389500	6.79	169585	8.23
3M125759.D	AD02720-007(MSD)	459255	4.95	392682	6.79	177567	8.23
3M125760.D	AD02649-001(40uL)	453336	4.96	378943	6.79	163418	8.23
3M125761.D	02720-006	455611	4.95	391264	6.79	174415	8.23
3M125762.D	AD02720-007	471325	4.95	395933	6.79	184358	8.23
3M125763.D	AD02811-006	481324	4.95	401725	6.79	181505	8.23
3M125764.D	AD02720-007(MS)	473572	4.96	418581	6.79	188877	8.23
3M125765.D	AD02748-001(10X)	490528	4.96	406957	6.80	180451	8.24
3M125766.D	AD02833-001	455012	4.96	381167	6.79	167568	8.24
3M125767.D	MBS67250	458748	4.96	392067	6.79	167962	8.23
3M125768.D	MBS67251	462551	4.96	400260	6.79	176154	8.23
3M125769.D	AD02694-001(MS)	470973	4.96	405024	6.79	178160	8.23

I1 = Fluorobenzene
I2 = Chlorobenzene-d5
I3 = 1,4-Dichlorobenzene-d4
I4 =
I5 =
I6 =
I7 =

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

8022605 0047

FORM8

Internal Standard Areas

Evaluation Std Data File: 3M125736.D Method: EPA 8260C

Analysis Date/Time: 03/01/18 07:34

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	392531	4.96	332641	6.79	140627	8.23								
Eval File Area Limit:	196266-785062		166320-665282		70314-281254									
Eval File Rt Limit:	4.46-5.46		6.29-7.29		7.73-8.73									

Data File	Sample						
3M125770.D	AD02694-001(MSD)	429595	4.96	363012	6.79	156264	8.23
3M125771.D	AD02833-001	468810	4.96	389254	6.80	160286	8.24
3M125772.D	AD02780-004	463045	4.96	402819	6.79	162553	8.23
3M125773.D	MBS67252	465747	4.96	398196	6.80	160552	8.23
3M125774.D	MBS67253	463034	4.96	396752	6.79	174572	8.23

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 3M125820.D Method: EPA 8260C

Analysis Date/Time: 03/02/18 06:44

Lab File ID: CAL @ 20 PPB

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	460203	4.98	396359	6.81	167612	8.26								
Eval File Area Limit:	230102-920406		198180-792718		83806-335224									
Eval File Rt Limit:	4.48-5.48		6.31-7.31		7.76-8.76									

Data File	Sample						
3M125822.D	BLK	433565	4.98	363517	6.81	158337	8.26
3M125823.D	DAILY BLANK	449359	4.98	377350	6.81	170994	8.26
3M125824.D	DAILY BLANK	465074	4.98	396632	6.81	178503	8.26
3M125827.D	MBS67264	470024	4.98	399903	6.81	179681	8.26
3M125828.D	MBS67265	414070	4.98	359132	6.81	165721	8.26
3M125829.D	AD02865-010	435807	4.98	392972	6.81	184481	8.26
3M125830.D	AD02780-003	477935	4.98	395385	6.81	171099	8.26
3M125831.D	AD02780-006	419950	4.98	363000	6.81	160347	8.26
3M125832.D	AD02813-004	472480	4.98	387929	6.81	173982	8.26
3M125833.D	AD02813-003	417755	4.98	346718	6.81	141588	8.26
3M125834.D	AD02736-008(MS)	468503	4.98	406424	6.81	181589	8.26
3M125835.D	AD02813-002	410687	4.98	349363	6.81	145244	8.26
3M125836.D	AD02833-001(MS)	454116	4.98	387803	6.81	169040	8.26
3M125837.D	AD02833-001(MSD)	475433	4.98	394471	6.81	183197	8.26
3M125838.D	AD02736-008(MSD)	413103	4.98	357014	6.81	157917	8.26
3M125839.D	AD02831-001	444094	4.97	379167	6.81	166671	8.26
3M125840.D	AD02799-001	492387	4.98	408311	6.81	165469	8.26
3M125841.D	AD02799-002	282688	5.01	292456	6.82	152777	8.26
3M125843.D	AD02775-001(50X)	417754	5.01	360506	6.84	159037	8.29
3M125844.D	AD02872-001(20X)	415387	5.00	353453	6.83	156289	8.27
3M125845.D	MBS67270	413893	4.99	368158	6.83	158624	8.27
3M125846.D	MBS67271	399047	4.99	348470	6.83	149527	8.27
3M125847.D	MBS67272	428390	4.98	361581	6.82	162267	8.27
3M125848.D	MBS67273	435980	4.98	378860	6.82	165698	8.26
3M125849.D	MBS67276	438504	4.98	382756	6.81	162724	8.26
3M125850.D	MBS67278	439874	4.98	396590	6.81	167374	8.26
3M125851.D	MBS67279	467171	4.98	394154	6.81	170219	8.26
3M125852.D	AD02799-002	446973	4.98	362387	6.81	145714	8.26
3M125855.D	AD02775-001(10X)	472401	4.98	389685	6.81	168816	8.26
3M125856.D	AD02840-004	436534	4.96	371767	6.81	172886	8.25
3M125857.D	AD02836-002	456178	4.96	392100	6.80	177403	8.25
3M125858.D	AD02835-001	461497	4.97	389596	6.81	177415	8.25

I1 =	Fluorobenzene	I4 =	I7 =	625/8270 Internal Standard concentration = 40 mg/L (in final extract)
I2 =	Chlorobenzene-d5	I5 =		624/8260 Internal Standard concentration = 30ug/L
I3 =	1,4-Dichlorobenzene-d4	I6 =		524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

GC/MS Volatile Data
Sample Data

Form1

ORGANICS VOLATILE REPORT

Sample Number: AD02799-001
Client Id: RMW-3_02232018
Data File: 3M125840.D
Analysis Date: 03/02/18 12:27
Date Rec/Extracted: 02/26/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

Worksheet #: 455624

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : AD02799-001 Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125840.D Sam Mult : 1 Vial# : 21 Qt On : 03/02/18 15:00
Acq On : 03/ 2/18 12:27 Misc : A,5ML!5 Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-02-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.976	96	492387	30.00	ug/l	0.04
52) Chlorobenzene-d5	6.814	117	408311	30.00	ug/l	0.04
70) 1,4-Dichlorobenzene-d4	8.256	152	165469	30.00	ug/l	0.04
System Monitoring Compounds						
37) Dibromofluoromethane	4.562	111	134152	27.93	ug/l	0.04
Spiked Amount 30.000			Recovery =	93.10%		
39) 1,2-Dichloroethane-d4	4.778	67	94970	28.22	ug/l	0.04
Spiked Amount 30.000			Recovery =	94.07%		
66) Toluene-d8	5.937	98	499446	28.61	ug/l	0.04
Spiked Amount 30.000			Recovery =	95.37%		
76) Bromofluorobenzene	7.517	174	185295	30.46	ug/l	0.04
Spiked Amount 30.000			Recovery =	101.53%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

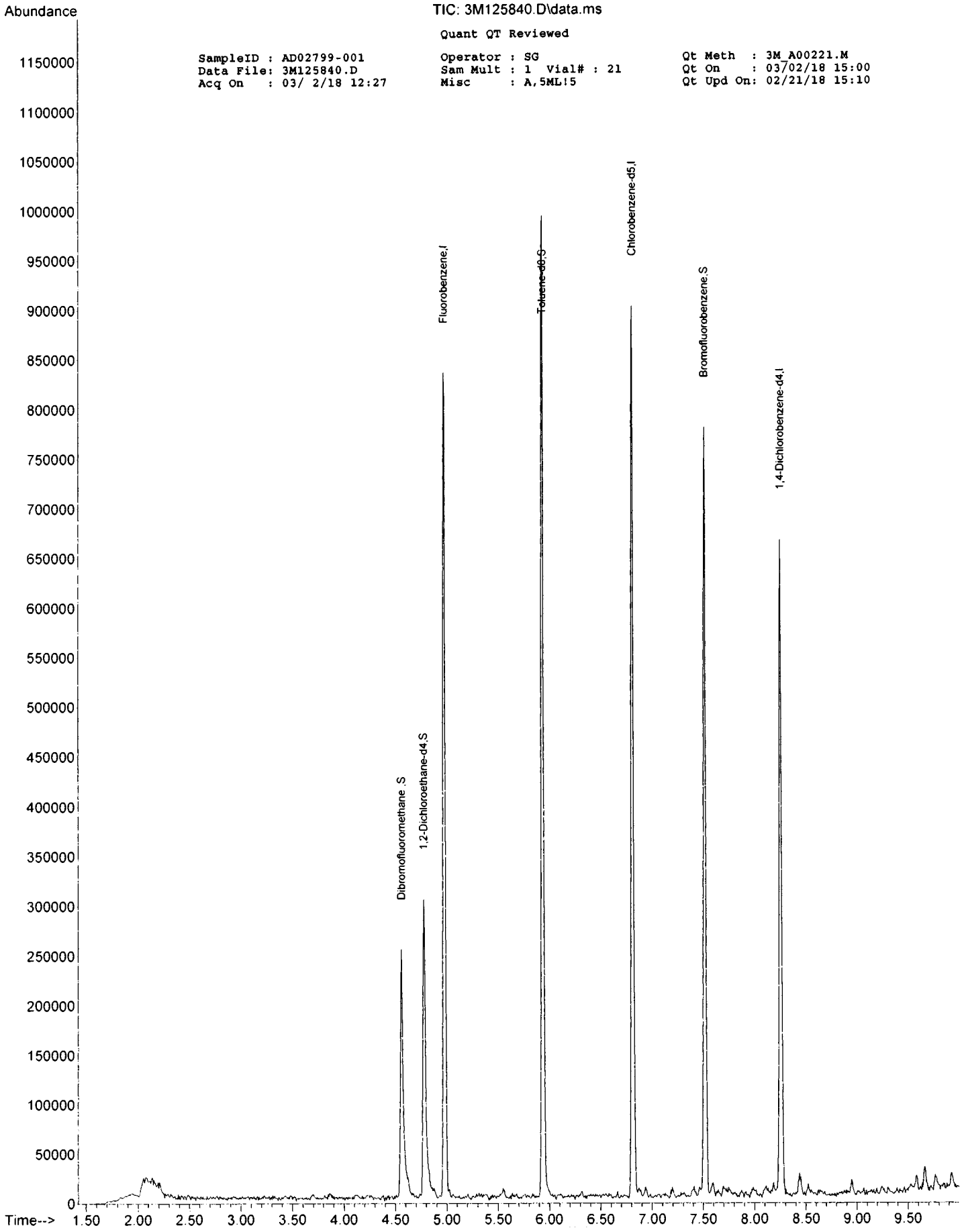
TIC: 3M125840.D\data.ms

Quant QT Reviewed

SampleID : AD02799-001
Data File: 3M125840.D
Acq On : 03/ 2/18 12:27

Operator : SG
Sam Mult : 1 Vial# : 21
Misc : A,5ML!5

Qt Meth : 3M_A00221.M
Qt On : 03/02/18 15:00
Qt Upd On: 02/21/18 15:10



Form1

ORGANICS VOLATILE REPORT

Sample Number: AD02799-002
Client Id: WC_02232018
Data File: 3M125852.D
Analysis Date: 03/02/18 15:47
Date Rec/Extracted: 02/26/18-NA
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	**108-87-2**	**Methylcyclohexane**	**1.0**	**2.0**
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U
1330-20-7	Xylenes (Total)	1.0	U				

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : AD02799-002 Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125852.D Sam Mult : 1 Vial# : 22 Qt On : 03/02/18 15:58
Acq On : 03/ 2/18 15:47 Misc : A,5ML!3 Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-02-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.976	96	446973	30.00	ug/l	0.04
52) Chlorobenzene-d5	6.814	117	362387	30.00	ug/l	0.04
70) 1,4-Dichlorobenzene-d4	8.256	152	145714	30.00	ug/l	0.04
System Monitoring Compounds						
37) Dibromofluoromethane	4.556	111	118430	27.16	ug/l	0.04
Spiked Amount 30.000			Recovery = 90.53%			
39) 1,2-Dichloroethane-d4	4.778	67	79435	26.00	ug/l	0.04
Spiked Amount 30.000			Recovery = 86.67%			
66) Toluene-d8	5.931	98	455223	29.38	ug/l	0.04
Spiked Amount 30.000			Recovery = 97.93%			
76) Bromofluorobenzene	7.517	174	172462	32.19	ug/l	0.04
Spiked Amount 30.000			Recovery = 107.30%			
Target Compounds						Qvalue
46) Methylcyclohexane	5.324	83	3982	1.9711	ug/l	85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

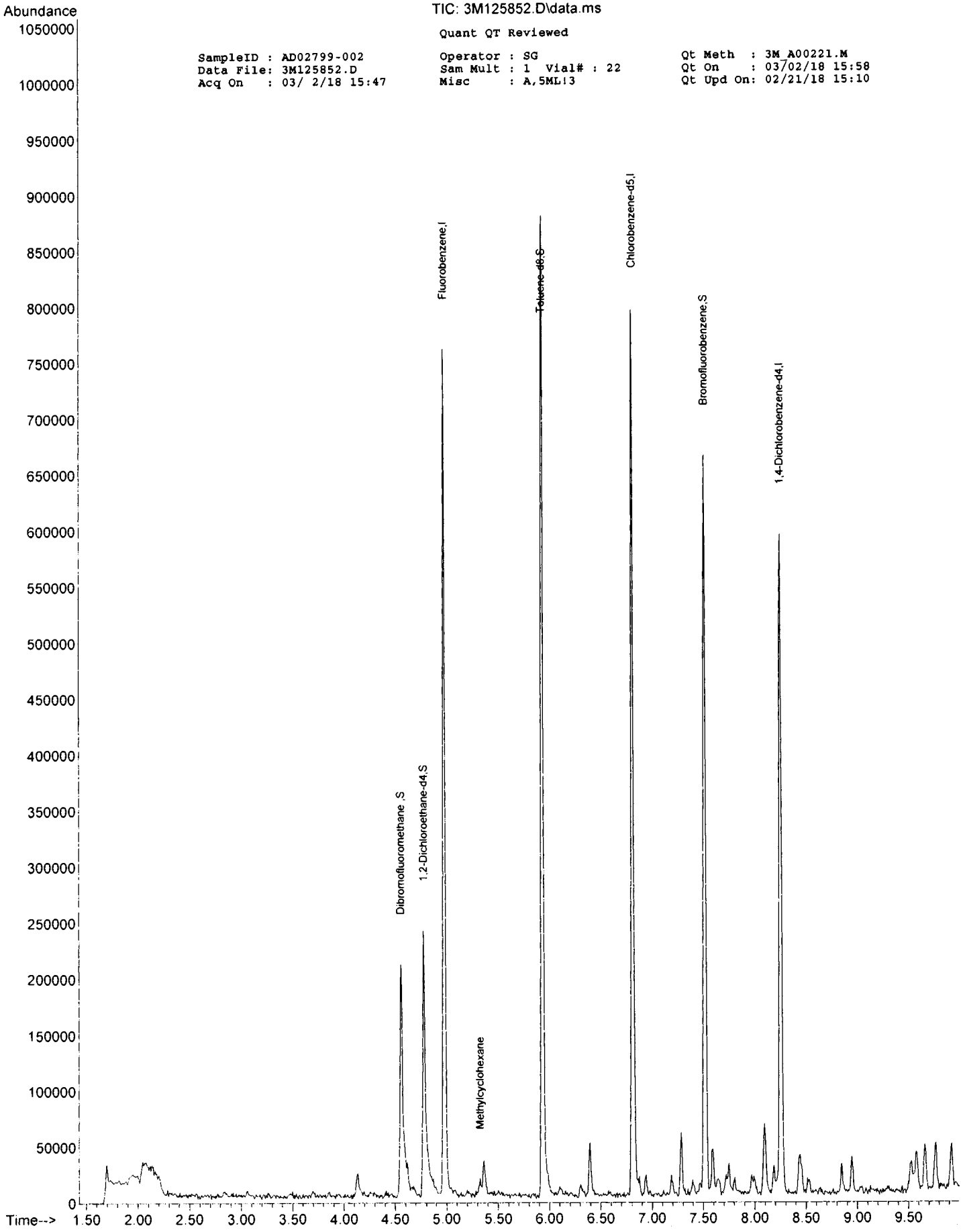
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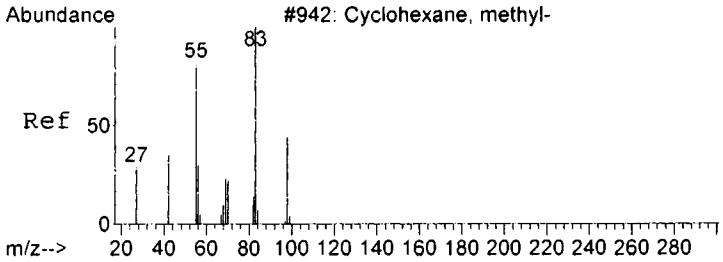
Quant QT Reviewed

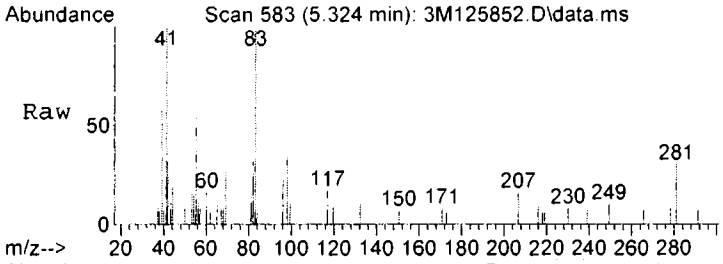
SampleID : AD02799-002
Data File: 3M125852.D
Acq On : 03/ 2/18 15:47

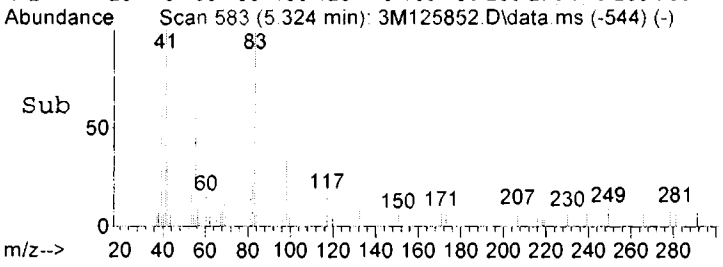
Operator : SG
Sam Mult : 1 Vial# : 22
Misc : A,5ML!3

Qt Meth : 3M_A00221.M
Qt On : 03/02/18 15:58
Qt Upd On: 02/21/18 15:10





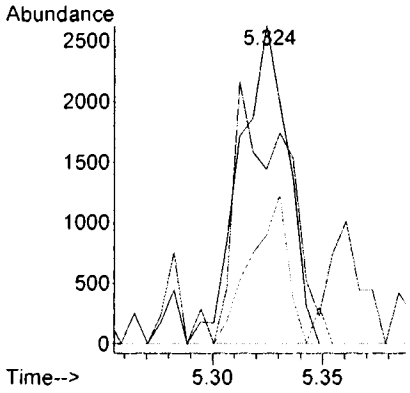




#46
Methylcyclohexane
Concen: 1.97 ug/l
RT: 5.324 min Scan# 583
Delta R.T. 0.037 min
Lab File: 3M125852.D
Acq: 2 Mar 2018 15:47

Tgt Ion: 83 Resp: 3982

Ion	Ratio	Lower	Upper
83	100		
55	87.3	50.0	150.0
98	38.4	32.9	72.9



GC/MS Volatile Data
Standards Data

802605 0058

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_3

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	3M125275.D	CAL @ 20 PPB	02/21/18 10:12	2	3M125283.D	CAL @ 5 PPB	02/21/18 12:25
3	3M125284.D	CAL @ 10 PPB	02/21/18 12:42	4	3M125273.D	CAL @ 50 PPB	02/21/18 09:38
5	3M125271.D	CAL @ 100 PPB	02/21/18 09:05	6	3M125269.D	CAL @ 250 PPB	02/21/18 08:31
7	3M125267.D	CAL @ 500 PPB	02/21/18 07:58	8	3M125282.D	CAL @ 1 PPB	02/21/18 12:09
9	3M125281.D	CAL @ 0.5 PPB	02/21/18 11:52				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Chlorodifluoromethane	1	0	Avg	0.4285	0.3869	0.4420	0.4316	-----	-----	-----	0.4453	-----	0.427	1.59	1.00	1.00	5.5	0.10	20.00	5.00	10.00	50.00				1.00	
Dichlorodifluorometha	1	0	Avg	0.0612	0.0669	0.0706	0.0655	0.0647	0.0706	0.0722	0.0358	-----	0.0635	1.58	1.00	1.00	19	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloromethane	1	0	Avg	0.1338	0.1482	0.1503	0.1436	0.1490	0.1558	0.1513	0.1016	-----	0.142	1.74	1.00	1.00	12	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromomethane	1	0	Qua	0.1021	0.0896	0.1137	0.1100	0.0885	-----	-----	0.1557	-----	0.110	2.11	0.986	0.998	22	0.10 a	20.00	5.00	10.00	50.00	100.0			1.00	
Vinyl Chloride	1	0	Avg	0.1391	0.1505	0.1797	0.1528	0.1587	0.1674	0.1704	0.1125	-----	0.154	1.83	1.00	1.00	14	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroethane	1	0	Avg	0.1164	0.1237	0.1427	0.1257	0.1142	0.1020	0.0728	0.1107	-----	0.114	2.19	0.964	1.00	18	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichlorofluoromethan	1	0	Avg	0.2740	0.2512	0.3455	0.3147	0.3276	0.3456	0.3167	0.2956	-----	0.309	2.40	0.998	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl ether	1	0	Avg	0.2146	0.2037	0.2273	0.2219	0.2219	0.2209	0.2075	0.1852	-----	0.213	2.63	0.999	1.00	6.4	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Furan	1	0	Avg	0.4666	0.4441	0.5309	0.5116	0.5301	0.5041	0.4720	0.6616	-----	0.515	2.67	0.999	1.00	13	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloro-1,2,2-tr	1	0	Avg	0.1204	0.1107	0.1302	0.1218	0.1349	0.1402	0.1257	0.0858	-----	0.121	2.81	0.997	0.999	14	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methylene Chloride	1	0	Avg	0.2305	0.2030	0.2712	0.2513	0.2366	0.2454	0.2252	0.3596	-----	0.253	3.22	0.998	1.00	19	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acrolein	1	0	Avg	0.0408	0.0280	0.0371	0.0434	0.0438	0.0469	0.0425	0.0325	-----	0.0394	2.75	0.998	0.999	16		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Acrylonitrile	1	0	Avg	0.0855	0.0833	0.0984	0.0997	0.0901	0.0949	0.0856	0.0590	-----	0.0871	3.43	0.997	1.00	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iodomethane	1	0	Avg	0.2487	0.2123	0.2695	0.2719	0.2643	0.2816	0.2735	0.2534	-----	0.259	2.96	1.00	1.00	8.4		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Acetone	1	0	Avg	0.0847	0.0802	0.1000	0.0852	0.0878	0.0926	0.0846	0.1032	-----	0.0898	2.87	0.998	1.00	9.0	0.10 a	100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Carbon Disulfide	1	0	Avg	0.4904	0.4403	0.4941	0.5404	0.5747	0.5969	0.5603	0.4103	-----	0.513	3.02	0.999	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butyl Alcohol	1	0	Avg	0.0256	0.0286	0.0270	0.0291	0.0285	0.0309	0.0295	0.0247	-----	0.0280	3.28	0.999	1.00	7.4		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
n-Hexane	1	0	Avg	0.0931	0.0782	0.1008	0.1055	0.1035	0.1041	0.0993	0.1232	-----	0.101	3.65	0.999	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Di-isopropyl-ether	1	0	Avg	0.7727	0.7347	0.8453	0.8288	0.8124	0.7967	0.6954	0.9774	-----	0.808	3.81	0.995	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1-Dichloroethene	1	0	Avg	0.3282	0.3026	0.3474	0.3407	0.3532	0.3483	0.3234	0.4060	-----	0.344	2.83	0.999	1.00	8.8	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl Acetate	1	0	Avg	0.3126	0.3580	0.3884	0.3433	0.3404	0.3468	0.3262	0.3707	-----	0.348	3.13	0.999	1.00	6.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl-t-butyl ether	1	0	Avg	0.6819	0.6773	0.7811	0.7363	0.7115	0.6854	0.5889	0.8949	0.8445	0.734	3.43	0.994	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
1,1-Dichloroethane	1	0	Avg	0.3919	0.3925	0.4368	0.4245	0.4244	0.4227	0.3819	0.4976	-----	0.422	3.80	0.997	1.00	8.7	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,2-Dichloroethe	1	0	Avg	0.2083	0.2125	0.2250	0.2271	0.2245	0.2208	0.1953	0.2210	-----	0.217	3.44	0.996	1.00	5.0	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl-t-butyl ether	1	0	Avg	0.8205	0.8234	0.9343	0.8870	0.8626	0.8431	0.7212	1.0191	-----	0.864	4.08	0.994	1.00	10	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,2-Dichloroethene	1	0	Avg	0.4193	0.4028	0.4614	0.4591	0.4530	0.4484	0.3942	0.4790	-----	0.440	4.21	0.996	1.00	6.9	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromochloromethane	1	0	Avg	0.2036	0.2596	0.2420	0.2766	0.2124	0.2773	0.2606	0.2047	-----	0.242	4.37	0.997	0.997	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2,2-Dichloropropane	1	0	Avg	0.3270	0.2594	0.3019	0.3616	0.3508	0.3459	0.3042	0.2864	-----	0.317	4.21	0.996	1.00	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl acetate	1	0	Avg	0.2831	0.2929	0.2889	0.3177	0.3293	0.3096	0.2942	0.3960	-----	0.314	4.23	0.999	1.00	12		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dioxane	1	0	Avg	0.0024	0.0030	0.0029	0.0031	0.0028	0.0028	0.0025	0.0035	-----	0.00292	5.38	0.996	1.00	12		1000.	250.0	500.0	2500.	5000.	1250	2500	50.00	
1,1-Dichloropropene	1	0	Avg	0.2906	0.3027	0.3259	0.3152	0.3135	0.2952	0.2538	0.4071	-----	0.313	4.64	0.994	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chloroform	1	0	Avg	0.4548	0.4280	0.5155	0.4871	0.4853	0.4850	0.4343	0.4928	-----	0.473	4.42	0.997	1.00	6.5	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromofluoromethan	1	0	Avg	0.3060	0.2788	0.3021	0.3034	0.2975	0.2942	0.2882	0.2876	0.2755	0.293	4.52	-1	-1	3.7		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Cyclohexane	1	0	Avg	0.1605	0.1637	0.1827	0.1691	0.1815	0.1791	0.1629	0.1811	-----	0.173	4.58	0.998	1.00	5.5	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloroethane-d4	1	0	Avg	0.2119	0.2127	0.2059	0.2023	0.1939	0.2048	0.1929	0.2107	0.2101	0.205	4.74	-1	-1	3.6		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
1,2-Dichloroethane	1	0	Avg	0.4473	0.4942	0.5541	0.4818	0.4496	0.4156	0.3375	0.5536	0.4512	0.465	4.79	0.988	1.00	14	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
2-Butanone	1	0	Avg	0.1088	0.1292	0.1508	0.1144	0.1372	0.1284	0.1048	0.0978	-----	0.121	4.22	0.988	0.999	15	0.10 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1-Trichloroethane	1	0	Avg	0.3779	0.3648	0.4299	0.4033	0.4046	0.4083	0.3715	0.4135	-----	0.397	4.55	0.998	1.00	5.7	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Carbon Tetrachloride	1	0	Avg	0.2776	0.2466	0.2944	0.3012	0.2990	0.2977	0.2599	0.2899	-----	0.283	4.65	0.995	1.00	7.2	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Vinyl Acetate	1	0	Avg	0.4908	0.4953	0.5645	0.5826	0.5641	0.5566	0.4882	0.6194	-----	0.545	3.81	0.995	1.00	8.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromodichloromethan	1	0	Avg	0.3302	0.2839	0.3688	0.3734	0.3783	0.3866	0.3516	0.2946	-----	0.346	5.47	0.998	1.00	11	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 11.4

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

802605 0059

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_3

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	3M125275.D	CAL @ 20 PPB	02/21/18 10:12	2	3M125283.D	CAL @ 5 PPB	02/21/18 12:25
3	3M125284.D	CAL @ 10 PPB	02/21/18 12:42	4	3M125273.D	CAL @ 50 PPB	02/21/18 09:38
5	3M125271.D	CAL @ 100 PPB	02/21/18 09:05	6	3M125269.D	CAL @ 250 PPB	02/21/18 08:31
7	3M125267.D	CAL @ 500 PPB	02/21/18 07:58	8	3M125282.D	CAL @ 1 PPB	02/21/18 12:09
9	3M125281.D	CAL @ 0.5 PPB	02/21/18 11:52				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Methylcyclohexane	1	0	Avg	0.1219	0.1161	0.1394	0.1280	0.1369	0.1365	0.1247	0.1809	-----	0.136	5.29	0.998	1.00	15	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromomethane	1	0	Avg	0.1987	0.2032	0.2250	0.2157	0.2050	0.1969	0.1737	0.2506	-----	0.209	5.39	0.996	1.00	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichloropropane	1	0	Avg	0.2137	0.2090	0.2299	0.2298	0.2273	0.2261	0.2021	0.2554	-----	0.224	5.31	0.997	1.00	7.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Trichloroethene	1	0	Avg	0.2361	0.2502	0.2680	0.2590	0.2623	0.2475	0.2160	0.2722	-----	0.251	5.16	0.995	1.00	7.4	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Benzene	1	0	Avg	0.7975	0.8399	0.8893	0.8532	0.8277	0.7415	0.6016	1.0269	1.1071	0.854	4.78	0.987	1.00	17	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	0.50
tert-Amyl methyl ether	1	0	Avg	0.7509	0.7133	0.8113	0.7886	0.7624	0.7098	0.5886	1.0205	-----	0.768	4.81	0.990	1.00	16		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Iso-propylacetate	1	0	Avg	0.7821	0.7925	0.8362	0.8206	0.8212	0.8037	0.6598	1.0282	-----	0.818	4.78	0.990	1.00	12	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Methyl methacrylate	1	0	Avg	0.4455	0.4095	0.4507	0.4753	0.4709	0.4761	0.4383	0.4817	-----	0.456	5.34	0.998	1.00	5.4	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Dibromochloromethan	1	0	Avg	0.3337	0.2937	0.3526	0.3860	0.3904	0.3913	0.3434	0.2239	-----	0.339	6.42	0.996	1.00	17	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chloroethylvinylethe	1	0	Avg	0.1884	0.2010	0.2318	0.2100	0.2239	0.2262	0.2105	0.2636	-----	0.219	5.62	0.999	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
cis-1,3-Dichloropropen	1	0	Avg	0.4674	0.4235	0.4654	0.5317	0.5566	0.5553	0.4916	0.4293	-----	0.490	5.73	0.996	1.00	11	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,3-Dichloroprop	1	0	Avg	0.4926	0.4300	0.4968	0.5332	0.5424	0.5415	0.4579	0.4376	-----	0.492	6.05	0.993	1.00	9.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethyl methacrylate	1	0	Avg	0.4099	0.4313	0.4658	0.4482	0.4585	0.4573	0.4049	0.5283	-----	0.451	6.06	0.996	1.00	8.6	0.50 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2-Trichloroethane	1	0	Avg	0.2779	0.3101	0.2839	0.2872	0.2937	0.2895	0.2557	0.3656	-----	0.296	6.17	0.996	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromoethane	1	0	Avg	0.2890	0.3357	0.2989	0.3065	0.3232	0.3289	0.2920	0.3951	-----	0.321	6.51	0.996	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichloropropane	1	0	Avg	0.4980	0.5364	0.5107	0.5176	0.5095	0.4861	0.4068	0.6760	-----	0.518	6.27	0.991	1.00	14		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Methyl-2-Pentanone	1	0	Avg	0.3758	0.3496	0.3861	0.3779	0.3848	0.4039	0.3704	0.5440	-----	0.399	5.80	0.998	1.00	15	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Hexanone	1	0	Avg	0.2433	0.2673	0.2780	0.2640	0.2631	0.2762	0.2463	0.3254	-----	0.270	6.29	0.997	0.999	9.4	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Tetrachloroethene	1	0	Avg	0.1954	0.1716	0.2306	0.2001	0.1998	0.1849	0.1521	0.2504	-----	0.198	6.27	0.989	1.00	16	0.20 a	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Toluene-d8	1	0	Avg	1.2821	1.3065	1.2346	1.2353	1.2787	1.3282	1.3248	1.2644	1.2900	1.28	5.89	-1	-1	2.7		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
Toluene	1	0	Avg	0.6475	0.6455	0.7335	0.6578	0.6691	0.6428	0.5584	0.9580	-----	0.689	5.94	0.995	1.00	17	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,1,2-Tetrachloroeth	1	0	Avg	0.3022	0.2830	0.3026	0.2972	0.2970	0.2763	0.2201	0.2922	-----	0.284	6.83	0.985	1.00	9.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Chlorobenzene	1	0	Avg	0.7074	0.7065	0.7956	0.7367	0.7483	0.7120	0.6196	0.9159	-----	0.743	6.79	0.995	1.00	12	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butyl acrylate	1	0	Avg	1.5473	1.3748	1.6260	1.8417	1.8502	1.8586	1.7375	1.4545	-----	1.66	7.05	0.999	1.00	11	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Amyl acetate	1	0	Avg	1.3804	1.1417	1.3646	1.5947	1.6267	1.6033	1.4925	1.3742	-----	1.45	7.19	0.999	1.00	11	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromoform	1	0	Avg	0.5267	0.4268	0.5386	0.6584	0.6775	0.6918	0.6409	0.4022	-----	0.570	7.30	0.998	1.00	20	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Ethylbenzene	1	0	Avg	0.5249	0.5391	0.5516	0.5488	0.5540	0.4739	0.3795	0.6031	-----	0.522	6.83	0.983	1.00	13	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,1,2,2-Tetrachloroeth	1	0	Avg	0.7618	0.7882	0.8237	0.8742	0.8662	0.8413	0.7886	1.0494	-----	0.849	7.54	0.999	1.00	11	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromofluorobenzene	1	0	Avg	1.0830	1.0544	1.0941	1.1065	1.1083	1.1375	1.1794	1.0606	-----	1.10	7.47	-1	-1	3.7		30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	
Styrene	1	0	Avg	1.6615	1.5717	1.7238	1.8580	1.8509	1.6419	1.3858	1.9261	-----	1.70	7.15	0.990	1.00	10	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
m&p-Xylenes	1	0	Avg	0.8041	0.7808	0.9190	0.8909	0.8892	0.7934	0.6828	1.0104	1.1130	0.876	6.90	0.993	1.00	15	0.10	40.00	10.00	20.00	100.0	200.0	500.0	1000.	2.00	1.00
o-Xylene	1	0	Avg	0.8153	0.8466	0.9455	0.9295	0.9268	0.8461	0.7315	1.0410	-----	0.885	7.14	0.993	1.00	11	0.30	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
trans-1,4-Dichloro-2-b	1	0	Avg	0.3821	0.2977	0.3337	0.4075	0.4210	0.4077	0.3713	0.2462	-----	0.358	7.57	0.998	1.00	17		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3-Dichlorobenzene	1	0	Avg	0.9293	0.8574	1.0289	1.0732	1.0574	0.9939	0.9006	1.1196	-----	0.995	8.17	0.997	1.00	9.2	0.60	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,4-Dichlorobenzene	1	0	Avg	0.9828	0.9496	0.9802	1.0963	1.0908	1.0118	0.9166	1.2572	-----	1.04	8.23	0.997	1.00	11	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dichlorobenzene	1	0	Avg	0.9318	1.0161	1.0498	1.0703	1.0887	1.0143	0.9256	1.2508	-----	1.04	8.48	0.997	1.00	9.8	0.40	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Isopropylbenzene	1	0	Avg	1.7010	1.6031	1.8317	1.9163	1.9635	1.8101	1.6296	1.7626	-----	1.78	7.36	0.996	1.00	7.3	0.10	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Cyclohexanone	1	0	Avg	0.0362	0.0356	0.0362	0.0355	0.0319	0.0324	0.0336	0.0281	-----	0.0337	7.46	1.00	1.00	8.3		100.0	25.00	50.00	250.0	500.0	1250.	2500.	5.00	
Camphene	1	0	Avg	0.5406	0.4038	0.5305	0.6416	0.6709	0.5486	0.4793	0.6095	-----	0.553	7.55	0.991	0.999	16		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichloropropane	1	0	Avg	1.0150	1.0410	1.1279	1.1650	1.1416	1.1060	0.9736	1.1806	-----	1.09	7.58	0.996	1.00	6.9		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
2-Chlorotoluene	1	0	Avg	1.0563	1.0328	1.0981	1.1512	1.1615	0.9652	0.7830	1.3450	-----	1.07	7.70	0.984	1.00	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 11.4

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

802605 0060

Method: EPA 8260C

Form 6
Initial Calibration

Instrument: GCMS_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3M125275.D	CAL @ 20 PPB	02/21/18 10:12	2	3M125283.D	CAL @ 5 PPB	02/21/18 12:25
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7	3M125267.D	CAL @ 500 PPB	02/21/18 07:58	8	3M125282.D	CAL @ 1 PPB	02/21/18 12:09
9	3M125281.D	CAL @ 0.5 PPB	02/21/18 11:52				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
p-Ethyltoluene	1	0	Avg	1.6859	1.6536	2.0199	2.1078	1.9814	1.9329	1.6640	1.4603	-----	1.81	7.68	0.994	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Chlorotoluene	1	0	Avg	1.0637	1.1355	1.1846	1.1993	1.1749	1.0633	0.9622	1.2999	-----	1.14	7.76	0.996	1.00	9.1		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Propylbenzene	1	0	Avg	1.7007	1.5948	1.8261	1.9605	1.9974	1.7425	1.5760	1.7849	-----	1.77	7.61	0.996	1.00	8.7		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Bromobenzene	1	0	Avg	1.5640	1.6726	1.8769	1.8623	1.9015	1.7152	1.4855	1.9356	-----	1.75	7.59	0.993	1.00	9.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,3,5-Trimethylbenzen	1	0	Avg	1.2895	1.0952	1.3360	1.3050	1.2043	0.9844	0.7976	1.1525	-----	1.15	7.71	0.983	0.999	16		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Butyl methacrylate	1	0	Avg	1.2055	0.9733	1.2213	1.3734	1.3477	1.2112	1.0645	1.3656	-----	1.22	7.71	0.994	1.00	12	0.50	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
t-Butylbenzene	1	0	Avg	1.1903	1.0799	1.2215	1.3211	1.3984	1.2581	1.1467	1.2522	-----	1.23	7.93	0.997	1.00	8.0		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trimethylbenzen	1	0	Avg	1.4331	1.3989	1.5688	1.7148	1.6937	1.5212	1.3833	1.6584	-----	1.55	7.96	0.996	1.00	8.6		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
sec-Butylbenzene	1	0	Avg	1.2586	1.1445	1.3437	1.4308	1.5498	1.4035	1.2821	1.5308	-----	1.37	8.06	0.997	1.00	10		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
4-Isopropyltoluene	1	0	Avg	1.1650	1.0304	1.1790	1.3854	1.4303	1.2485	1.1419	1.1597	-----	1.22	8.14	0.996	1.00	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
n-Butylbenzene	1	0	Avg	1.3085	1.1014	1.1931	1.4611	1.4570	1.3017	1.1588	1.6186	-----	1.33	8.41	0.995	1.00	13		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
p-Diethylbenzene	1	0	Avg	0.7291	0.7296	0.7318	0.8500	0.8699	0.7706	0.7136	1.1177	-----	0.814	8.39	0.997	1.00	17		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4,5-Tetramethylbe	1	0	Avg	1.1773	0.9955	1.1157	1.3445	1.3347	1.1782	1.0814	1.5492	-----	1.22	8.90	0.997	1.00	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2-Dibromo-3-Chloro	1	0	Qua	0.1518	0.1282	0.1680	0.1894	0.1908	0.2141	0.2035	0.0986	-----	0.168	8.99	0.999	0.999	24	0.05	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Camphor	1	0	Qua	0.0814	0.0885	0.0947	0.0878	0.0877	0.0883	0.0807	0.0440	0.0450	0.0776	9.47	0.998	1.00	25		200.0	50.00	100.0	500.0	1000.	2500.	5000.	10.00	5.00
Hexachlorobutadiene	1	0	Avg	0.5689	0.5324	0.4419	0.5061	0.5014	0.3818	0.3254	0.5268	-----	0.473	9.62	0.986	0.998	18		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,4-Trichlorobenzen	1	0	Qua	0.5289	0.4696	0.4850	0.6058	0.5583	0.5037	0.4437	0.8427	-----	0.555	9.53	0.994	1.00	23	0.20	20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
1,2,3-Trichlorobenzen	1	0	Avg	0.5176	0.4760	0.4665	0.5365	0.5019	0.4474	0.3790	0.6287	-----	0.494	9.87	0.991	1.00	15		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	
Naphthalene	1	0	Avg	1.3719	1.2084	1.3504	1.5067	1.3938	1.3569	1.1633	1.6414	-----	1.37	9.72	0.994	1.00	11		20.00	5.00	10.00	50.00	100.0	250.0	500.0	1.00	

Flags	*Note:* Avg Rsd: 11.4
a - failed the min rf criteria	*Corr 1 = Correlation Coefficient for linear Eq.*
c - failed the minimum correlation coeff criteria(if applicable)	*Corr 2 = Correlation Coefficient for quad Eq.*
	Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Quantitation Report (QT Reviewed)

SampleID : 20 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125275.D Sam Mult : 1 Vial# : 13 Qt On : 02/21/18 13:55
Acq On : 02/21/18 10:12 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.940	96	314974	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.772	117	241752	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	8.213	152	105038	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.519	111	96406	30.58	ug/l	-0.02
Spiked Amount 30.000			Recovery = 101.93%			
39) 1,2-Dichloroethane-d4	4.741	67	66756	31.47	ug/l	-0.01
Spiked Amount 30.000			Recovery = 104.90%			
66) Toluene-d8	5.895	98	309956	32.87	ug/l	-0.02
Spiked Amount 30.000			Recovery = 109.57%			
76) Bromofluorobenzene	7.474	174	113756	32.32	ug/l	-0.02
Spiked Amount 30.000			Recovery = 107.73%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.594	51	89986	18.9882	ug/l	40
6) Dichlorodifluoromethane	1.577	85	12853	4.7161	ug/l	92
7) Chloromethane	1.744	50	28106	8.3650	ug/l	83
8) Bromomethane	2.110	94	21448	14.5962	ug/l	74
9) Vinyl Chloride	1.827	62	29221	10.5448	ug/l	90
10) Chloroethane	2.194	64	24448	13.0690	ug/l	95
11) Trichlorofluoromethane	2.405	101	57535	13.3056	ug/l	84
12) Ethyl ether	2.627	59	45076	17.2513	ug/l	82
13) Furan	2.669	39	97977	15.1385	ug/l	91
14) 1,1,2-Trichloro-1,2,2-...	2.807	101	25289	14.2929	ug/l	95
15) Methylene Chloride	3.222	84	48416	16.7914	ug/l	95
16) Acrolein	2.747	56	42914	78.9571	ug/l	98
17) Acrylonitrile	3.426	53	17966	15.5618	ug/l	97
18) Iodomethane	2.963	142	52226	17.7669	ug/l	89
19) Acetone	2.867	43	89017	77.6514	ug/l	99
20) Carbon Disulfide	3.023	76	102983	15.9211	ug/l	100
21) t-Butyl Alcohol	3.282	59	26960	79.5776	ug/l	67
22) n-Hexane	3.654	57	19560	16.0096	ug/l	81
23) Di-isopropyl-ether	3.810	45	162259	17.1838	ug/l	99
24) 1,1-Dichloroethene	2.825	61	68921	17.1795	ug/l	90
25) Methyl Acetate	3.131	43	65644	15.1694	ug/l	100
26) Methyl-t-butyl ether	3.426	73	143199	16.6852	ug/l	64
27) 1,1-Dichloroethane	3.798	63	82293	17.2140	ug/l	87
28) trans-1,2-Dichloroethene	3.444	96	43757	17.2852	ug/l	85
29) Ethyl-t-butyl ether	4.081	59	172299	18.0068	ug/l	95
30) cis-1,2-Dichloroethene	4.213	61	88051	16.1731	ug/l	84
31) Bromochloromethane	4.375	49	42764	13.8002	ug/l	95
32) 2,2-Dichloropropane	4.213	77	68680	18.7626	ug/l	94
33) Ethyl acetate	4.231	43	59447m	15.9769	ug/l	
34) 1,4-Dioxane	5.384	88	25923	741.2410	ug/l	86
35) 1,1-Dichloropropene	4.639	75	61035	16.6548	ug/l	96
36) Chloroform	4.417	83	95504	16.6696	ug/l	96
38) Cyclohexane	4.579	56	33721	16.0522	ug/l	96
40) 1,2-Dichloroethane	4.789	62	93929	16.7008	ug/l	99
41) 2-Butanone	4.219	43	22858m	13.3216	ug/l	
42) 1,1,1-Trichloroethane	4.549	97	79358	17.3910	ug/l	88
43) Carbon Tetrachloride	4.645	117	58291	15.6131	ug/l	88
44) Vinyl Acetate	3.810	43	103064	15.5735	ug/l	100
45) Bromodichloromethane	5.468	83	69355	15.6514	ug/l	99
46) Methylcyclohexane	5.288	83	25602	16.3222	ug/l	87
47) Dibromomethane	5.390	174	41729	18.4247	ug/l	90
48) 1,2-Dichloropropane	5.306	63	44879	16.8503	ug/l	99
49) Trichloroethene	5.162	130	49590	16.7340	ug/l	95
50) Benzene	4.777	78	167481	16.8468	ug/l	100
51) tert-Amyl methyl ether	4.813	73	157694	18.0212	ug/l	73
53) Iso-propylacetate	4.777	43	126051	19.6488	ug/l	95
54) Methyl methacrylate	5.336	41	71801m	19.3736	ug/l	
55) Dibromochloromethane	6.423	129	53789	18.8918	ug/l	91
56) 2-Chloroethylvinylether	5.618	63	30367	18.3709	ug/l	96
57) cis-1,3-Dichloropropene	5.732	75	75343	20.3009	ug/l	91
58) trans-1,3-Dichloropropene	6.051	75	79399	21.4739	ug/l	99
59) Ethyl methacrylate	6.063	41	66071	18.6635	ug/l	76
60) 1,1,2-Trichloroethane	6.171	97	44790	19.3686	ug/l	83
61) 1,2-Dibromoethane	6.507	107	46588	18.1303	ug/l	97
62) 1,3-Dichloropropane	6.273	76	80265	20.1793	ug/l	90
63) 4-Methyl-2-Pentanone	5.805	43	60572	19.9152	ug/l	96
64) 2-Hexanone	6.285	43	39218	17.5070	ug/l	88
65) Tetrachloroethene	6.267	164	31494	20.9789	ug/l	80
67) Toluene	5.937	92	104370	20.4144	ug/l	100

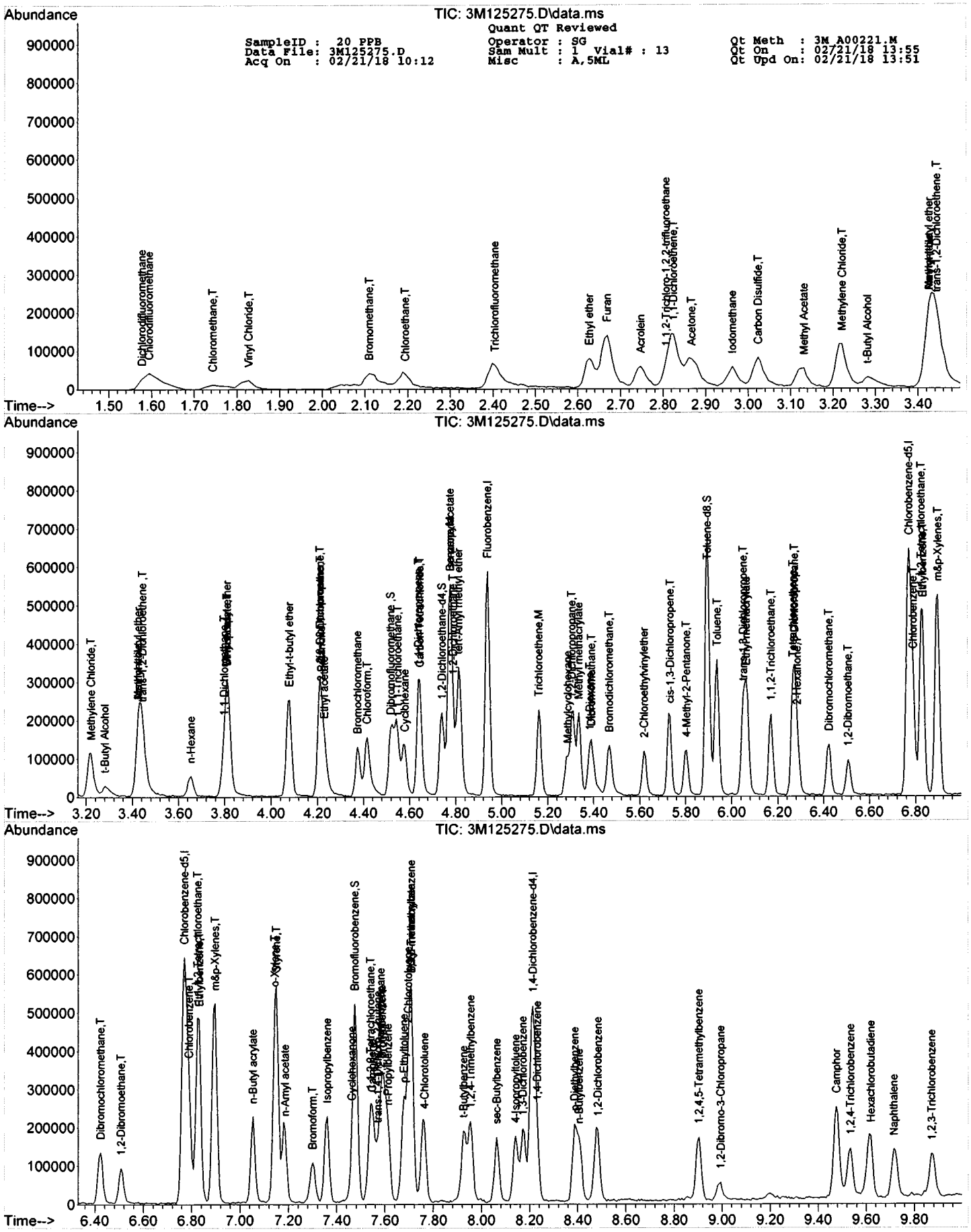
Quantitation Report (QT Reviewed)

SampleID : 20 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125275.D Sam Mult : 1 Vial# : 13 Qt On : 02/21/18 13:55
Acq On : 02/21/18 10:12 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.826	133	48709	22.0692	ug/l	70
69)	Chlorobenzene	6.790	112	114014	19.5759	ug/l	91
71)	n-Butyl acrylate	7.054	55	108356	21.1236	ug/l	92
72)	n-Amyl acetate	7.186	43	96665	20.4967	ug/l	88
73)	Bromoform	7.300	173	36885	20.2602	ug/l	85
74)	Ethylbenzene	6.832	106	36760	22.5684	ug/l	85
75)	1,1,2,2-Tetrachloroethane	7.541	83	53346	19.8024	ug/l	94
77)	Styrene	7.150	104	116351	22.7163	ug/l	93
78)	m&p-Xylenes	6.898	106	112621	43.0046	ug/l	91
79)	o-Xylene	7.144	106	57092	20.4241	ug/l	80
80)	trans-1,4-Dichloro-2-b...	7.571	53	26758	22.6044	ug/l	70
81)	1,3-Dichlorobenzene	8.171	146	65077	21.7572	ug/l	92
82)	1,4-Dichlorobenzene	8.231	146	68826	21.3497	ug/l	96
83)	1,2-Dichlorobenzene	8.484	146	65251	21.1923	ug/l	93
84)	Isopropylbenzene	7.360	105	119113	22.0464	ug/l	97
85)	Cyclohexanone	7.462	55	12699	97.7100	ug/l	96
86)	Camphene	7.547	93	37860	23.1093	ug/l	98
87)	1,2,3-Trichloropropane	7.583	75	71076	20.3343	ug/l	99
88)	2-Chlorotoluene	7.697	91	73973	22.0515	ug/l	96
89)	p-Ethyltoluene	7.679	105	118056	21.0984	ug/l	81
90)	4-Chlorotoluene	7.763	91	74489	21.2542	ug/l	97
91)	n-Propylbenzene	7.613	91	119092	21.7487	ug/l	96
92)	Bromobenzene	7.589	77	109524	19.7714	ug/l	97
93)	1,3,5-Trimethylbenzene	7.709	105	90298	23.0644	ug/l	88
94)	Butyl methacrylate	7.709	41	84417	21.9411	ug/l	86
95)	t-Butylbenzene	7.925	119	83351	22.8884	ug/l	86
96)	1,2,4-Trimethylbenzene	7.955	105	100357	21.6381	ug/l	93
97)	sec-Butylbenzene	8.063	105	88135	22.7412	ug/l	98
98)	4-Isopropyltoluene	8.141	119	81581	23.6899	ug/l	96
99)	n-Butylbenzene	8.406	91	91630	24.4544	ug/l	90
100)	p-Diethylbenzene	8.388	119	51062	24.1461	ug/l	95
101)	1,2,4,5-Tetramethylben...	8.904	119	82446	27.0152	ug/l	95
102)	1,2-Dibromo-3-Chloropr...	8.994	157	10631	19.4163	ug/l	86
103)	Camphor	9.475	95	57019	214.0274	ug/l	87
104)	Hexachlorobutadiene	9.619	225	39838	26.4402	ug/l	97
105)	1,2,4-Trichlorobenzene	9.535	180	37043	24.6127	ug/l	96
106)	1,2,3-Trichlorobenzene	9.871	180	36250	26.5653	ug/l	95
107)	Naphthalene	9.715	128	96068	24.9351	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125275.D\data.ms
Quant QT Reviewed
SampleID : 20 PPB
Data File: 3M125275.D
Acq On : 02/21/18 10:12
Operator : SG
Sam Mult : 1 Vial# : 13
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 02/21/18 13:55
Qt Upd On: 02/21/18 13:51
Dichlorodifluoromethane
Chlorodifluoromethane
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
1,1,2-Trichloro-1,2,2-trifluoroethane
1,1-Dichloroethene,T
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
trans-1,2-Dichloroethene,T
Time-->

Abundance
TIC: 3M125275.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Methylcyclohexane
Methylmethacrylate
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,T
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,T
Ethylbenzene,T
m&p-Xylenes,T
Time-->

Abundance
TIC: 3M125275.D\data.ms
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,T
Ethylbenzene,T
1,1,1,2-Tetrachloroethane,T
m&p-Xylenes,T
n-Butyl acrylate
o-Xylene,T
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Bromofluorobenzene,S
Cyclohexanone
trans-1,4-Dichloro-2-butene,T
n-Propylbenzene
p-Ethyltoluene
1,3,5-Trimethylbenzene
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
4-Isopropyltoluene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
1,4-Dichlorobenzene-d4,I
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

SampleID : CAL @ 5 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125283.D Sam Mult : 1 Vial# : 18 Qt On : 02/21/18 14:34
Acq On : 02/21/18 12:25 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.939	96	317078	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.771	117	238991	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	8.213	152	107957	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.525	111	88411	27.86	ug/l	-0.01
Spiked Amount 30.000			Recovery = 92.87%			
39) 1,2-Dichloroethane-d4	4.741	67	67458	31.59	ug/l	-0.01
Spiked Amount 30.000			Recovery = 105.30%			
66) Toluene-d8	5.894	98	312244	33.49	ug/l	-0.02
Spiked Amount 30.000			Recovery = 111.63%			
76) Bromofluorobenzene	7.480	174	113830	31.47	ug/l	-0.01
Spiked Amount 30.000			Recovery = 104.90%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.592	51	20447	4.2860	ug/l	44
6) Dichlorodifluoromethane	1.576	85	3540	1.2903	ug/l	95
7) Chloromethane	1.742	50	7835	2.3164	ug/l	97
8) Bromomethane	2.110	94	4738	3.2030	ug/l	98
9) Vinyl Chloride	1.826	62	7957	2.8523	ug/l	86
10) Chloroethane	2.194	64	6539	3.4723	ug/l	88
11) Trichlorofluoromethane	2.398	101	13279	3.0505	ug/l	80
12) Ethyl ether	2.632	59	10768	4.0937	ug/l	80
13) Furan	2.668	39	23472	3.6026	ug/l	99
14) 1,1,2-Trichloro-1,2,2-...	2.813	101	5855	3.2872	ug/l	81
15) Methylene Chloride	3.227	84	10732	3.6973	ug/l	98
16) Acrolein	2.747	56	7409	13.5413	ug/l	67
17) Acrylonitrile	3.431	53	4403	3.7885	ug/l	88
18) Iodomethane	2.957	142	11222	3.7923	ug/l	87
19) Acetone	2.873	43	21208	18.3774	ug/l	99
20) Carbon Disulfide	3.023	76	23273	3.5741	ug/l	100
21) t-Butyl Alcohol	3.287	59	7573	22.2048	ug/l	97
22) n-Hexane	3.648	57	4134m	3.3612	ug/l	
23) Di-isopropyl-ether	3.816	45	38827	4.0846	ug/l	68
24) 1,1-Dichloroethene	2.825	61	15992	3.9598	ug/l	95
25) Methyl Acetate	3.131	43	18923	4.3438	ug/l	100
26) Methyl-t-butyl ether	3.431	73	35795	4.1431	ug/l	66
27) 1,1-Dichloroethane	3.804	63	20743	4.3102	ug/l	84
28) trans-1,2-Dichloroethene	3.455	96	11231	4.4071	ug/l	62
29) Ethyl-t-butyl ether	4.080	59	43517	4.5177	ug/l	94
30) cis-1,2-Dichloroethene	4.212	61	21291	3.8848	ug/l	79
31) Bromochloromethane	4.380	49	13719m	4.3978	ug/l	
32) 2,2-Dichloropropane	4.212	77	13709	3.7203	ug/l	79
33) Ethyl acetate	4.236	43	15482m	4.1333	ug/l	
34) 1,4-Dioxane	5.384	88	8052	228.7107	ug/l	50
35) 1,1-Dichloropropene	4.639	75	15998	4.3364	ug/l	99
36) Chloroform	4.417	83	22623	3.9225	ug/l	91
38) Cyclohexane	4.579	56	8652	4.0913	ug/l	91
40) 1,2-Dichloroethane	4.789	62	26120	4.6134	ug/l	88
41) 2-Butanone	4.218	43	6831m	3.9547	ug/l	
42) 1,1,1-Trichloroethane	4.549	97	19283	4.1977	ug/l	100
43) Carbon Tetrachloride	4.645	117	13032	3.4674	ug/l	72
44) Vinyl Acetate	3.816	43	26175	3.9289	ug/l	100
45) Bromodichloromethane	5.468	83	15003	3.3633	ug/l	93
46) Methylcyclohexane	5.294	83	6138	3.8872	ug/l	89
47) Dibromomethane	5.390	174	10743	4.7119	ug/l	91
48) 1,2-Dichloropropane	5.312	63	11049	4.1209	ug/l	95
49) Trichloroethene	5.161	130	13227	4.4338	ug/l	81
50) Benzene	4.777	78	44388	4.4353	ug/l	100
51) tert-Amyl methyl ether	4.819	73	37698	4.2795	ug/l	76
53) Iso-propylacetate	4.777	43	31568	4.9777	ug/l	96
54) Methyl methacrylate	5.342	41	16314m	4.4528	ug/l	
55) Dibromochloromethane	6.423	129	11702	4.1575	ug/l	87
56) 2-Chloroethylvinylether	5.624	63	8007	4.8999	ug/l	88
57) cis-1,3-Dichloropropene	5.732	75	16871	4.5984	ug/l	89
58) trans-1,3-Dichloropropene	6.050	75	17130	4.6864	ug/l	100
59) Ethyl methacrylate	6.062	41	17182	4.9096	ug/l	77
60) 1,1,2-Trichloroethane	6.171	97	12355	5.4044	ug/l	86
61) 1,2-Dibromoethane	6.513	107	13372	5.2640	ug/l	82
62) 1,3-Dichloropropane	6.273	76	21367	5.4339	ug/l	87
63) 4-Methyl-2-Pentanone	5.804	43	13928	4.6322	ug/l	72
64) 2-Hexanone	6.291	43	10647	4.8077	ug/l	96
65) Tetrachloroethene	6.267	164	6837	4.6069	ug/l	92
67) Toluene	5.936	92	25714	5.0877	ug/l	78

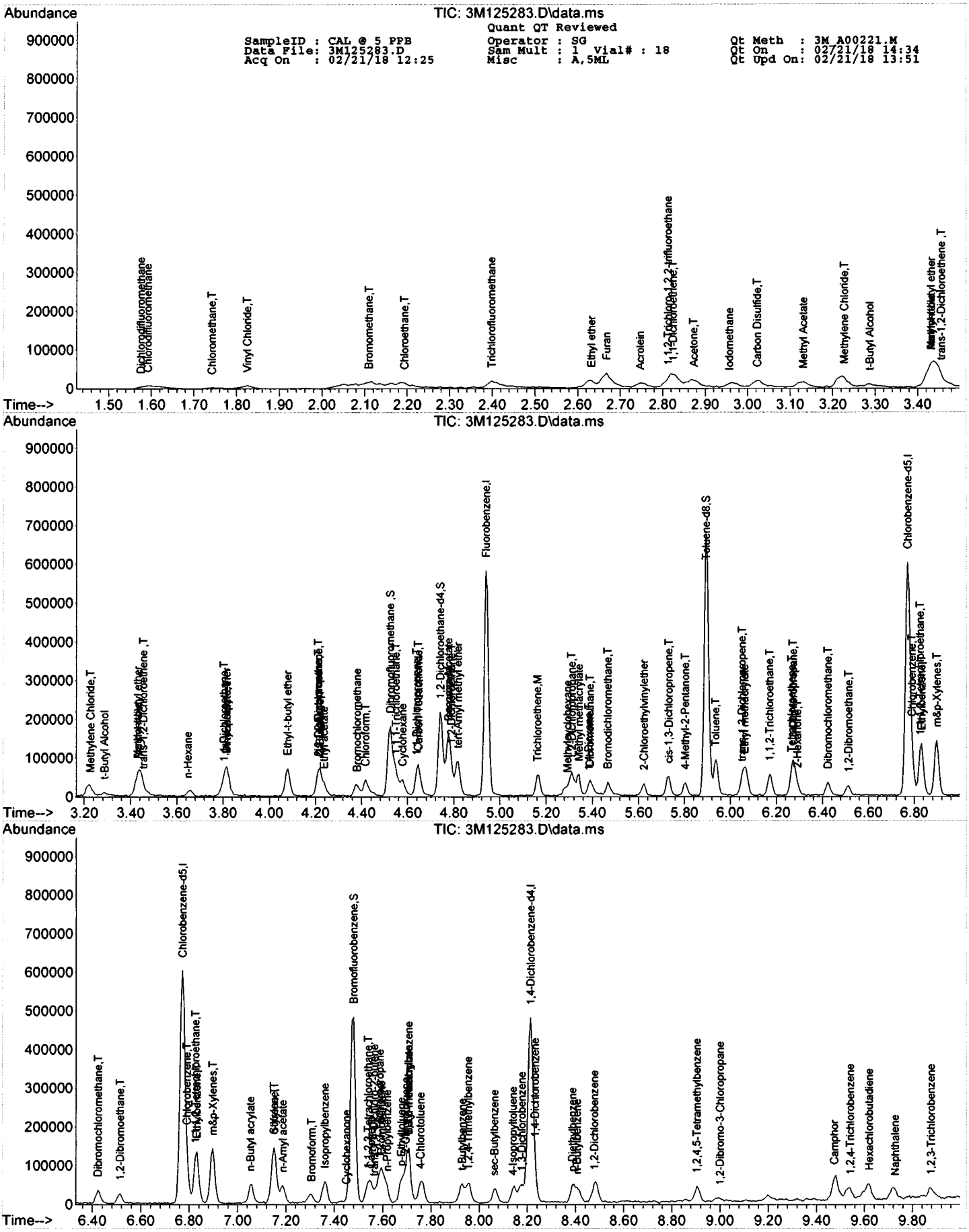
Quantitation Report (QT Reviewed)

SampleID : CAL @ 5 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125283.D Sam Mult : 1 Vial# : 18 Qt On : 02/21/18 14:34
Acq On : 02/21/18 12:25 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.825	133	11274	5.1671	ug/l		80
69)	Chlorobenzene	6.789	112	28144	4.8881	ug/l		92
71)	n-Butyl acrylate	7.054	55	24737	4.6920	ug/l		97
72)	n-Amyl acetate	7.186	43	20543	4.2381	ug/l		79
73)	Bromoform	7.306	173	7680	4.1044	ug/l		84
74)	Ethylbenzene	6.831	106	9700	5.7942	ug/l		83
75)	1,1,2,2-Tetrachloroethane	7.540	83	14183	5.1225	ug/l		94
77)	Styrene	7.150	104	28280	5.3721	ug/l		97
78)	m&p-Xylenes	6.897	106	28100	10.4399	ug/l		83
79)	o-Xylene	7.150	106	15234	5.3025	ug/l		60
80)	trans-1,4-Dichloro-2-b...	7.564	53	5358	4.4039	ug/l		85
81)	1,3-Dichlorobenzene	8.177	146	15428	5.0186	ug/l		91
82)	1,4-Dichlorobenzene	8.231	146	17086	5.1567	ug/l		98
83)	1,2-Dichlorobenzene	8.477	146	18284	5.7777	ug/l		95
84)	Isopropylbenzene	7.360	105	28845	5.1945	ug/l		98
85)	Cyclohexanone	7.450	55	3205	23.9935	ug/l		82
86)	Camphene	7.552	93	7266	4.3152	ug/l		92
87)	1,2,3-Trichloropropane	7.588	75	18732	5.2142	ug/l		98
88)	2-Chlorotoluene	7.696	91	18584	5.3901	ug/l		96
89)	p-Ethyltoluene	7.678	105	29754	5.1737	ug/l		71
90)	4-Chlorotoluene	7.756	91	20432	5.6723	ug/l		96
91)	n-Propylbenzene	7.618	91	28696	5.0988	ug/l		95
92)	Bromobenzene	7.594	77	30096	5.2861	ug/l		87
93)	1,3,5-Trimethylbenzene	7.708	105	19706	4.8973	ug/l		77
94)	Butyl methacrylate	7.708	41	17513	4.4288	ug/l		89
95)	t-Butylbenzene	7.931	119	19432	5.1918	ug/l		82
96)	1,2,4-Trimethylbenzene	7.955	105	25171	5.2804	ug/l		98
97)	sec-Butylbenzene	8.063	105	20594	5.1701	ug/l		96
98)	4-Isopropyltoluene	8.141	119	18541	5.2385	ug/l		97
99)	n-Butylbenzene	8.405	91	19819	5.1463	ug/l		93
100)	p-Diethylbenzene	8.387	119	13128	6.0401	ug/l	#	2
101)	1,2,4,5-Tetramethylben...	8.904	119	17913	5.7109	ug/l		90
102)	1,2-Dibromo-3-Chloropr...	9.000	157	2307	4.0996	ug/l		94
103)	Camphor	9.474	95	15924	58.1564	ug/l		91
104)	Hexachlorobutadiene	9.619	225	9581	6.1869	ug/l		99
105)	1,2,4-Trichlorobenzene	9.540	180	8451	5.4633	ug/l		98
106)	1,2,3-Trichlorobenzene	9.877	180	8565	6.1070	ug/l		88
107)	Naphthalene	9.727	128	21743	5.4910	ug/l		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125283.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 5 PPB
Data File: 3M125283.D
Acq On : 02/21/18 12:25
Operator : SG
Sam Mult : 1 Vial# : 18
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 02/21/18 14:34
Qt Upd On: 02/21/18 13:51
Time-->

SampleID : CAL @ 10 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125284.D Sam Mult : 1 Vial# : 19 Qt On : 02/21/18 14:36
Acq On : 02/21/18 12:42 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.939	96	279249	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.771	117	219722	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	8.213	152	95197	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.525	111	84379	30.19	ug/l	-0.01
Spiked Amount 30.000			Recovery = 100.63%			
39) 1,2-Dichloroethane-d4	4.741	67	57506	30.58	ug/l	-0.01
Spiked Amount 30.000			Recovery = 101.93%			
66) Toluene-d8	5.894	98	271270	31.65	ug/l	-0.02
Spiked Amount 30.000			Recovery = 105.50%			
76) Bromofluorobenzene	7.480	174	104158	32.65	ug/l	-0.01
Spiked Amount 30.000			Recovery = 108.83%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.593	51	41151	9.7943	ug/l	42
6) Dichlorodifluoromethane	1.576	85	6573	2.7204	ug/l	80
7) Chloromethane	1.760	50	13996	4.6984	ug/l	64
8) Bromomethane	2.110	94	10585	8.1250	ug/l	68
9) Vinyl Chloride	1.826	62	16730	6.8096	ug/l	95
10) Chloroethane	2.194	64	13283	8.0090	ug/l	98
11) Trichlorofluoromethane	2.398	101	32160	8.3888	ug/l	81
12) Ethyl ether	2.633	59	21161	9.1347	ug/l	79
13) Furan	2.663	39	49426	8.6138	ug/l	94
14) 1,1,2-Trichloro-1,2,2-...	2.813	101	12128	7.7315	ug/l	97
15) Methylene Chloride	3.221	84	25251	9.8778	ug/l	72
16) Acrolein	2.747	56	17280	35.8607	ug/l	70
17) Acrylonitrile	3.426	53	9167	8.9561	ug/l	71
18) Iodomethane	2.963	142	25086	9.6259	ug/l	98
19) Acetone	2.873	43	46543	45.7945	ug/l	98
20) Carbon Disulfide	3.029	76	45996	8.0207	ug/l	100
21) t-Butyl Alcohol	3.287	59	12572	41.8561	ug/l	77
22) n-Hexane	3.648	57	9385	8.6642	ug/l	84
23) Di-isopropyl-ether	3.816	45	78687	9.3993	ug/l	92
24) 1,1-Dichloroethene	2.825	61	32337	9.0916	ug/l	92
25) Methyl Acetate	3.125	43	36161	9.4253	ug/l	100
26) Methyl-t-butyl ether	3.432	73	72707	9.5554	ug/l	64
27) 1,1-Dichloroethane	3.798	63	40667	9.5950	ug/l	87
28) trans-1,2-Dichloroethene	3.444	96	20946	9.3328	ug/l	86
29) Ethyl-t-butyl ether	4.080	59	86967	10.2516	ug/l	95
30) cis-1,2-Dichloroethene	4.212	61	42950	8.8983	ug/l	79
31) Bromochloromethane	4.375	49	22533	8.2018	ug/l	78
32) 2,2-Dichloropropane	4.212	77	28108	8.6612	ug/l	85
33) Ethyl acetate	4.237	43	26893m	8.1524	ug/l	
34) 1,4-Dioxane	5.384	88	13706	442.0465	ug/l	80
35) 1,1-Dichloropropene	4.639	75	30342	9.3387	ug/l	95
36) Chloroform	4.417	83	47985	9.4470	ug/l	89
38) Cyclohexane	4.579	56	17010	9.1332	ug/l	96
40) 1,2-Dichloroethane	4.789	62	51581	10.3445	ug/l	95
41) 2-Butanone	4.224	43	14038m	9.2280	ug/l	
42) 1,1,1-Trichloroethane	4.549	97	40021	9.8924	ug/l	99
43) Carbon Tetrachloride	4.651	117	27411	8.2812	ug/l	97
44) Vinyl Acetate	3.816	43	52554	8.9571	ug/l	100
45) Bromodichloromethane	5.468	83	34330	8.7384	ug/l	83
46) Methylcyclohexane	5.282	83	12980	9.3339	ug/l	88
47) Dibromomethane	5.396	174	20944	10.4305	ug/l	97
48) 1,2-Dichloropropane	5.312	63	21408	9.0662	ug/l	100
49) Trichloroethene	5.162	130	24952	9.4972	ug/l	78
50) Benzene	4.777	78	82784	9.3925	ug/l	100
51) tert-Amyl methyl ether	4.819	73	75521	9.7346	ug/l	76
53) Iso-propylacetate	4.777	43	61247	10.5044	ug/l	96
54) Methyl methacrylate	5.336	41	33014m	9.8011	ug/l	
55) Dibromochloromethane	6.423	129	25825	9.9797	ug/l	80
56) 2-Chloroethylvinylether	5.624	63	16984	11.3049	ug/l	87
57) cis-1,3-Dichloropropene	5.732	75	34091	10.1067	ug/l	95
58) trans-1,3-Dichloropropene	6.051	75	36388	10.8281	ug/l	94
59) Ethyl methacrylate	6.069	41	34119	10.6041	ug/l	86
60) 1,1,2-Trichloroethane	6.171	97	20794	9.8935	ug/l	90
61) 1,2-Dibromoethane	6.513	107	21898	9.3763	ug/l	88
62) 1,3-Dichloropropane	6.273	76	37408	10.3476	ug/l	99
63) 4-Methyl-2-Pentanone	5.804	43	28279	10.2299	ug/l	90
64) 2-Hexanone	6.291	43	20365	10.0024	ug/l	97
65) Tetrachloroethene	6.267	164	16890	12.3789	ug/l	92
67) Toluene	5.936	92	53727	11.5624	ug/l	99

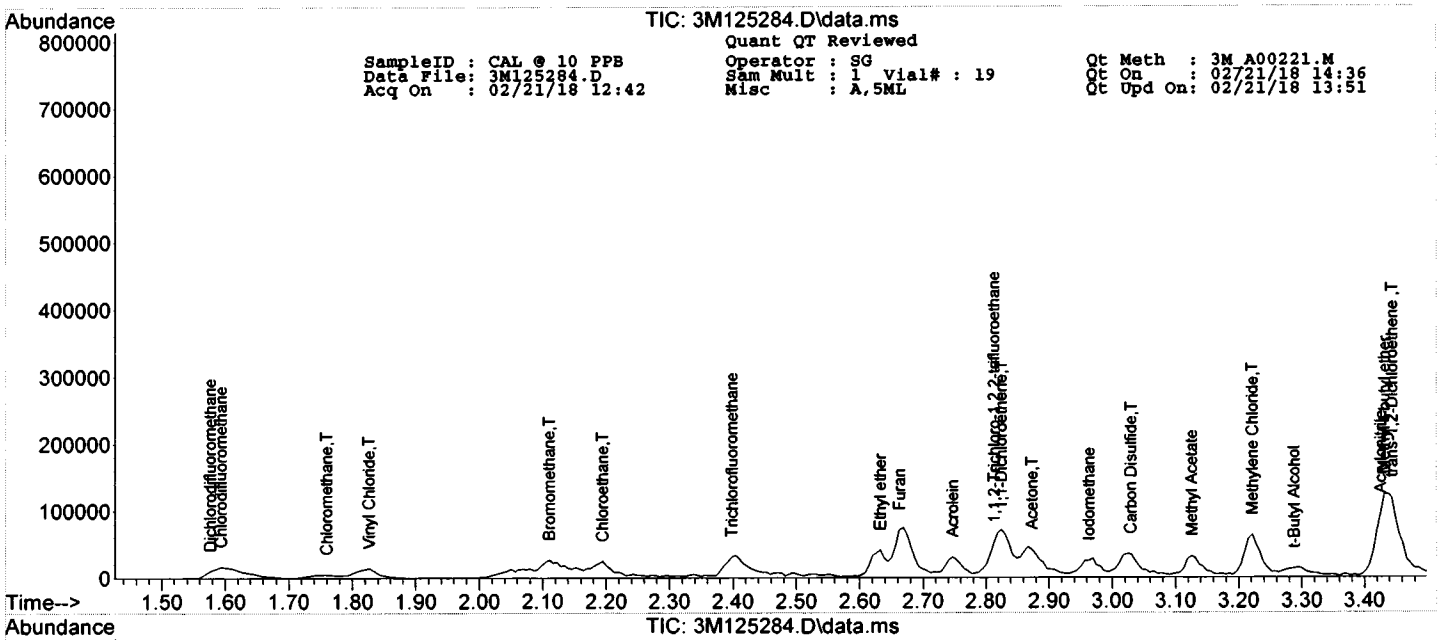
Quantitation Report (QT Reviewed)

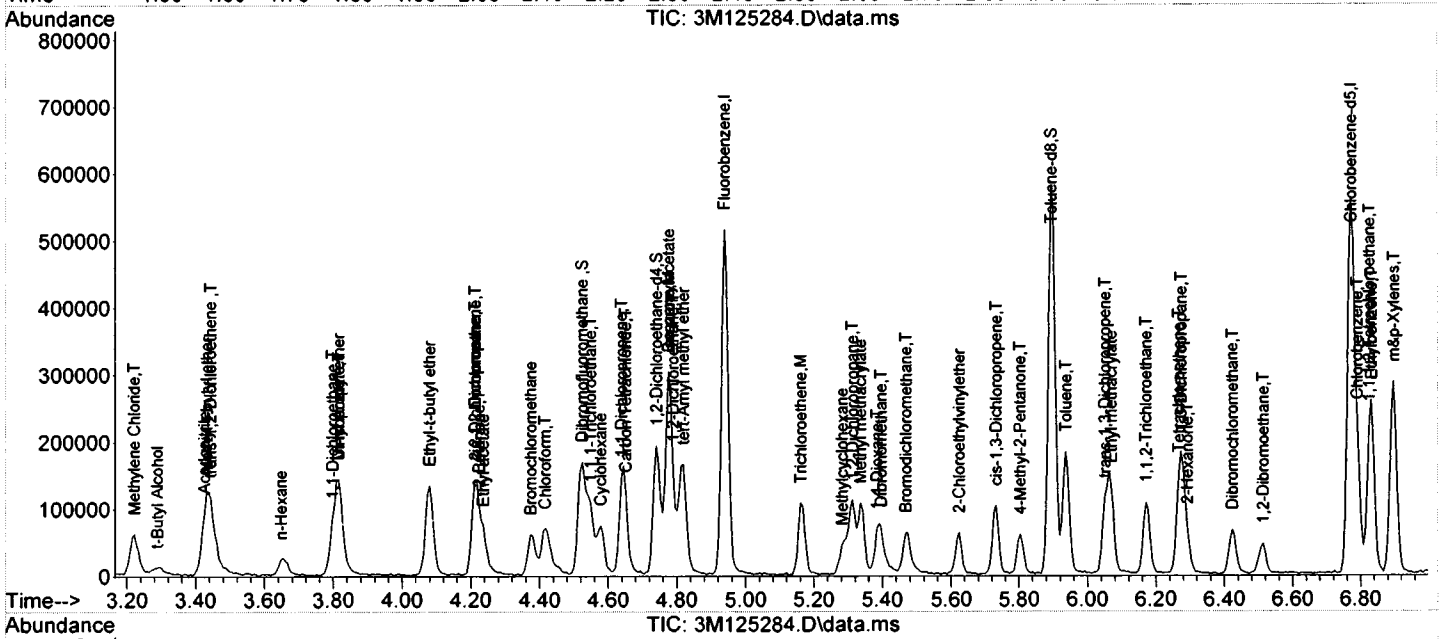
SampleID : CAL @ 10 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125284.D Sam Mult : 1 Vial# : 19 Qt On : 02/21/18 14:36
Acq On : 02/21/18 12:42 Misc : A,5ML Qt Upd On: 02/21/18 13:51

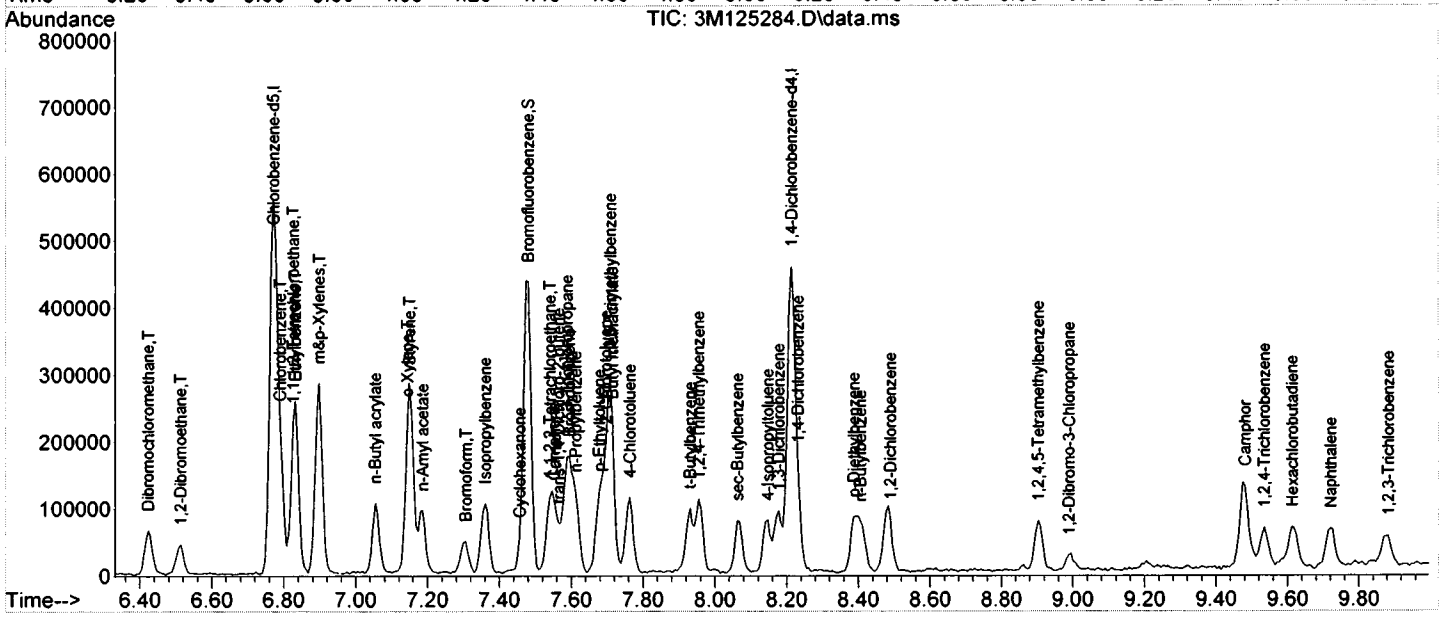
Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.825	133	22167	11.0505	ug/l		81
69)	Chlorobenzene	6.789	112	58275	11.0089	ug/l		98
71)	n-Butyl acrylate	7.054	55	51598	11.0987	ug/l		93
72)	n-Amyl acetate	7.186	43	43302	10.1309	ug/l		84
73)	Bromoform	7.306	173	17091	10.3582	ug/l		75
74)	Ethylbenzene	6.832	106	17504	11.8573	ug/l		99
75)	1,1,2,2-Tetrachloroethane	7.540	83	26139	10.7060	ug/l		96
77)	Styrene	7.150	104	54703	11.7843	ug/l		96
78)	m&p-Xylenes	6.898	106	58328	24.5752	ug/l		83
79)	o-Xylene	7.144	106	30005	11.8436	ug/l		68
80)	trans-1,4-Dichloro-2-b...	7.564	53	10590	9.8709	ug/l		77
81)	1,3-Dichlorobenzene	8.177	146	32651	12.0447	ug/l		90
82)	1,4-Dichlorobenzene	8.231	146	31106	10.6465	ug/l		91
83)	1,2-Dichlorobenzene	8.489	146	33314	11.9383	ug/l		94
84)	Isopropylbenzene	7.360	105	58125	11.8704	ug/l		96
85)	Cyclohexanone	7.456	55	5757	48.8753	ug/l		87
86)	Camphene	7.552	93	16836	11.3388	ug/l		100
87)	1,2,3-Trichloropropane	7.588	75	35792	11.2984	ug/l		99
88)	2-Chlorotoluene	7.697	91	34848	11.4621	ug/l		96
89)	p-Ethyltoluene	7.678	105	64097	12.6393	ug/l		70
90)	4-Chlorotoluene	7.763	91	37590	11.8345	ug/l		94
91)	n-Propylbenzene	7.612	91	57949	11.6767	ug/l		94
92)	Bromobenzene	7.594	77	59561	11.8635	ug/l		92
93)	1,3,5-Trimethylbenzene	7.709	105	42397	11.9487	ug/l		88
94)	Butyl methacrylate	7.715	41	38757	11.1148	ug/l		90
95)	t-Butylbenzene	7.931	119	38761	11.7442	ug/l		92
96)	1,2,4-Trimethylbenzene	7.955	105	49784	11.8436	ug/l		89
97)	sec-Butylbenzene	8.063	105	42641	12.1399	ug/l		100
98)	4-Isopropyltoluene	8.147	119	37413	11.9873	ug/l		94
99)	n-Butylbenzene	8.405	91	37862	11.1493	ug/l		93
100)	p-Diethylbenzene	8.387	119	23223	12.1169	ug/l	#	2
101)	1,2,4,5-Tetramethylben...	8.904	119	35406	12.8008	ug/l		96
102)	1,2-Dibromo-3-Chloropr...	8.988	157	5331	10.7430	ug/l		72
103)	Camphor	9.481	95	30072	124.5476	ug/l		91
104)	Hexachlorobutadiene	9.613	225	14024	10.2698	ug/l		92
105)	1,2,4-Trichlorobenzene	9.535	180	15392	11.2842	ug/l		93
106)	1,2,3-Trichlorobenzene	9.883	180	14804	11.9704	ug/l		92
107)	Naphthalene	9.721	128	42853	12.2726	ug/l		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125284.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 10 PPB
Data File: 3M125284.D
Acq On : 02/21/18 12:42
Operator : SG
Sam Mult : 1 Vial# : 19
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 02/21/18 14:36
Qt Upd On: 02/21/18 13:51
Dichlorodifluoromethane
Chlorodifluoromethane
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Time-->


Abundance
TIC: 3M125284.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,T
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
Time-->


Abundance
TIC: 3M125284.D\data.ms
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
1,4-Dichlorobenzene-d4,I
t-Butylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

8022605 0070

SampleID : CAL @ 50 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125273.D Sam Mult : 1 Vial# : 11 Qt On : 02/21/18 14:10
Acq On : 02/21/18 09:38 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.940	96	297035	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.772	117	237279	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	8.213	152	95829	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.525	111	90136	30.32	ug/l	-0.01
Spiked Amount 30.000			Recovery = 101.07%			
39) 1,2-Dichloroethane-d4	4.741	67	60106	30.05	ug/l	-0.01
Spiked Amount 30.000			Recovery = 100.17%			
66) Toluene-d8	5.895	98	293130	31.67	ug/l	-0.02
Spiked Amount 30.000			Recovery = 105.57%			
76) Bromofluorobenzene	7.481	174	106038	33.02	ug/l	-0.01
Spiked Amount 30.000			Recovery = 110.07%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.591	51	213686	47.8137	ug/l	41
6) Dichlorodifluoromethane	1.574	85	32425	12.6162	ug/l	83
7) Chloromethane	1.758	50	71135	22.4499	ug/l	82
8) Bromomethane	2.104	94	54501	39.3300	ug/l	99
9) Vinyl Chloride	1.824	62	75689	28.9629	ug/l	92
10) Chloroethane	2.194	64	62236	35.2784	ug/l	96
11) Trichlorofluoromethane	2.399	101	155831	38.2141	ug/l	87
12) Ethyl ether	2.627	59	109863	44.5857	ug/l	80
13) Furan	2.663	39	253308	41.5025	ug/l	95
14) 1,1,2-Trichloro-1,2,2-...	2.807	101	60342	36.1640	ug/l	97
15) Methylene Chloride	3.222	84	124455	45.7697	ug/l	85
16) Acrolein	2.747	56	107605	209.9384	ug/l	94
17) Acrylonitrile	3.426	53	49393	45.3671	ug/l	98
18) Iodomethane	2.957	142	134650	48.5734	ug/l	96
19) Acetone	2.867	43	211110	195.2775	ug/l	89
20) Carbon Disulfide	3.023	76	267566	43.8638	ug/l	100
21) t-Butyl Alcohol	3.288	59	72087	225.6291	ug/l	79
22) n-Hexane	3.654	57	52230	45.3315	ug/l	90
23) Di-isopropyl-ether	3.816	45	410312	46.0778	ug/l	99
24) 1,1-Dichloroethene	2.825	61	168713	44.5937	ug/l	90
25) Methyl Acetate	3.126	43	169992	41.6551	ug/l	100
26) Methyl-t-butyl ether	3.432	73	364522	45.0382	ug/l	63
27) 1,1-Dichloroethane	3.798	63	210195	46.6238	ug/l	96
28) trans-1,2-Dichloroethene	3.444	96	112445	47.1015	ug/l	95
29) Ethyl-t-butyl ether	4.081	59	439145	48.6664	ug/l	95
30) cis-1,2-Dichloroethene	4.213	61	227289	44.2696	ug/l	80
31) Bromochloromethane	4.375	49	136975m	46.8721	ug/l	
32) 2,2-Dichloropropane	4.213	77	179035	51.8642	ug/l	95
33) Ethyl acetate	4.231	43	157291m	44.8264	ug/l	
34) 1,4-Dioxane	5.384	88	78064	2366.9662	ug/l	94
35) 1,1-Dichloropropene	4.639	75	156072	45.1598	ug/l	97
36) Chloroform	4.417	83	241151	44.6334	ug/l	86
38) Cyclohexane	4.579	56	83752	42.2763	ug/l	95
40) 1,2-Dichloroethane	4.789	62	238545	44.9754	ug/l	99
41) 2-Butanone	4.219	43	56665m	35.0186	ug/l	
42) 1,1,1-Trichloroethane	4.549	97	199702	46.4069	ug/l	97
43) Carbon Tetrachloride	4.651	117	149156	42.3638	ug/l	97
44) Vinyl Acetate	3.810	43	288433	46.2159	ug/l	100
45) Bromodichloromethane	5.468	83	184866	44.2385	ug/l	97
46) Methylcyclohexane	5.288	83	63387	42.8520	ug/l	95
47) Dibromomethane	5.390	174	106812	50.0092	ug/l	95
48) 1,2-Dichloropropane	5.312	63	113770	45.2961	ug/l	91
49) Trichloroethene	5.162	130	128225	45.8823	ug/l	86
50) Benzene	4.777	78	422402	45.0551	ug/l	100
51) tert-Amyl methyl ether	4.813	73	390411	47.3104	ug/l	73
53) Iso-propylacetate	4.777	43	324517	51.5391	ug/l	96
54) Methyl methacrylate	5.336	41	187967m	51.6740	ug/l	
55) Dibromochloromethane	6.423	129	152681	54.6355	ug/l	97
56) 2-Chloroethylvinylether	5.624	63	83074	51.2042	ug/l	88
57) cis-1,3-Dichloropropene	5.733	75	210293	57.7309	ug/l	88
58) trans-1,3-Dichloropropene	6.051	75	210880	58.1088	ug/l	97
59) Ethyl methacrylate	6.069	41	177279	51.0211	ug/l	78
60) 1,1,2-Trichloroethane	6.171	97	113606	50.0528	ug/l	93
61) 1,2-Dibromoethane	6.507	107	121212	48.0603	ug/l	91
62) 1,3-Dichloropropane	6.273	76	204704	52.4345	ug/l	97
63) 4-Methyl-2-Pentanone	5.805	43	149471	50.0703	ug/l	87
64) 2-Hexanone	6.291	43	104409	47.4869	ug/l	96
65) Tetrachloroethene	6.267	164	79168	53.7299	ug/l	98
67) Toluene	5.937	92	260166	51.8467	ug/l	94

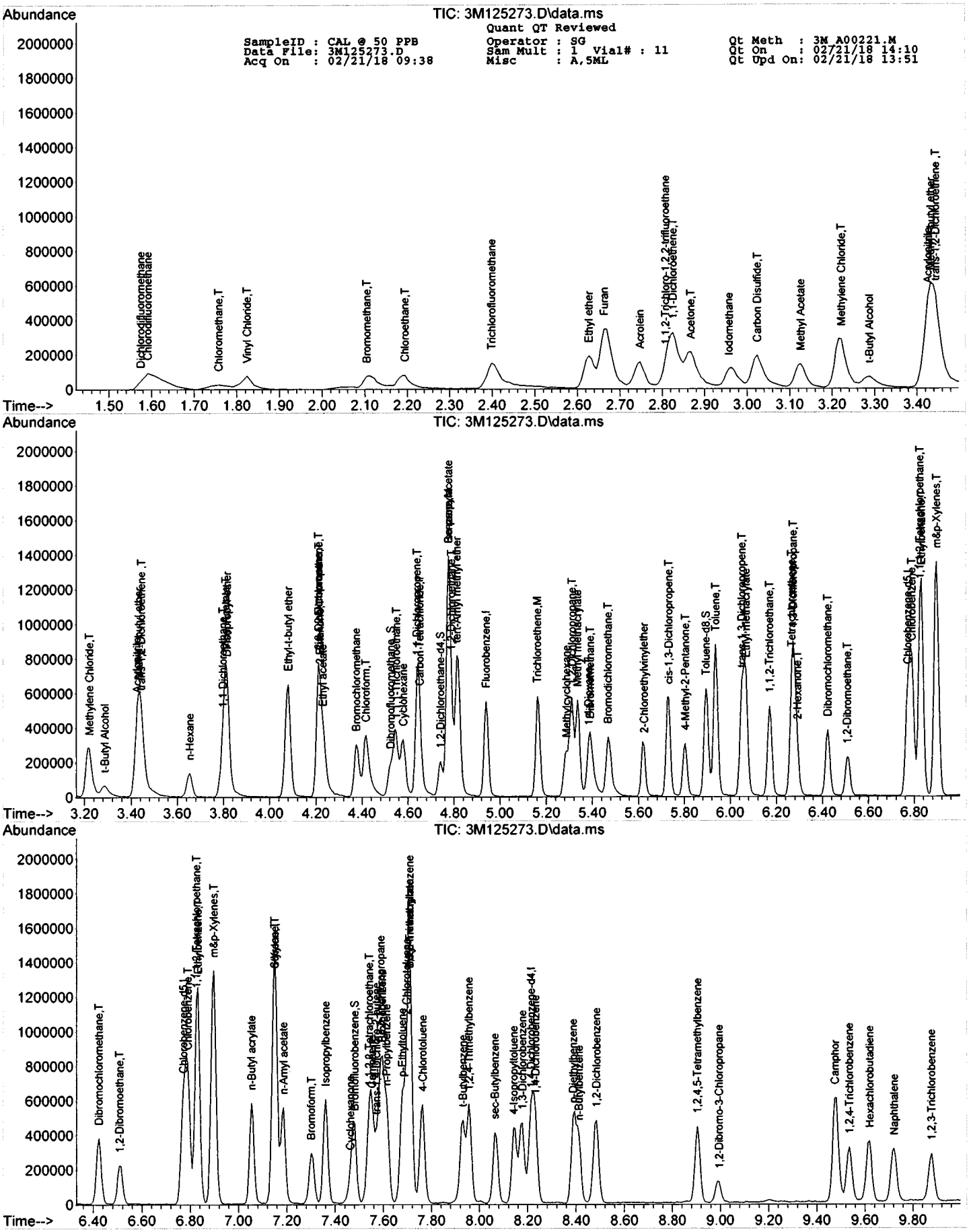
Quantitation Report (QT Reviewed)

SampleID : CAL @ 50 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125273.D Sam Mult : 1 Vial# : 11 Qt On : 02/21/18 14:10
Acq On : 02/21/18 09:38 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.826	133	117567	54.2717	ug/l	82
69)	Chlorobenzene	6.790	112	291341	50.9654	ug/l	97
71)	n-Butyl acrylate	7.054	55	294160	62.8561	ug/l	93
72)	n-Amyl acetate	7.186	43	254698	59.1957	ug/l	88
73)	Bromoform	7.300	173	105157	63.3112	ug/l	99
74)	Ethylbenzene	6.832	106	87656	58.9870	ug/l	88
75)	1,1,2,2-Tetrachloroethane	7.541	83	139638	56.8159	ug/l	96
77)	Styrene	7.150	104	296761	63.5074	ug/l	95
78)	m&p-Xylenes	6.898	106	284594	119.1163	ug/l	91
79)	o-Xylene	7.150	106	148455	58.2120	ug/l	83
80)	trans-1,4-Dichloro-2-b...	7.571	53	65090	60.2703	ug/l	64
81)	1,3-Dichlorobenzene	8.177	146	171418	62.8177	ug/l	90
82)	1,4-Dichlorobenzene	8.231	146	175104	59.5367	ug/l	96
83)	1,2-Dichlorobenzene	8.484	146	170947	60.8559	ug/l	94
84)	Isopropylbenzene	7.360	105	306070	62.0938	ug/l	96
85)	Cyclohexanone	7.463	55	28359	239.1719	ug/l	97
86)	Camphene	7.553	93	102474	68.5599	ug/l	97
87)	1,2,3-Trichloropropane	7.589	75	186083	58.3529	ug/l	97
88)	2-Chlorotoluene	7.697	91	183870	60.0793	ug/l	98
89)	p-Ethyltoluene	7.679	105	336651	65.9465	ug/l	76
90)	4-Chlorotoluene	7.763	91	191552	59.9086	ug/l	95
91)	n-Propylbenzene	7.613	91	313125	62.6785	ug/l	97
92)	Bromobenzene	7.595	77	297437	58.8536	ug/l	91
93)	1,3,5-Trimethylbenzene	7.709	105	208436	58.3560	ug/l	82
94)	Butyl methacrylate	7.709	41	219358	62.4931	ug/l	86
95)	t-Butylbenzene	7.931	119	210999	63.5089	ug/l	89
96)	1,2,4-Trimethylbenzene	7.955	105	273893	64.7295	ug/l	90
97)	sec-Butylbenzene	8.063	105	228532	64.6341	ug/l	98
98)	4-Isopropyltoluene	8.141	119	221272	70.4289	ug/l	95
99)	n-Butylbenzene	8.412	91	233361	68.2649	ug/l	91
100)	p-Diethylbenzene	8.388	119	135771	70.3729	ug/l	94
101)	1,2,4,5-Tetramethylben...	8.904	119	214740	77.1260	ug/l	97
102)	1,2-Dibromo-3-Chloropr...	8.994	157	30262	60.5815	ug/l	77
103)	Camphor	9.475	95	140289	577.1954	ug/l	93
104)	Hexachlorobutadiene	9.619	225	80845	58.8125	ug/l	94
105)	1,2,4-Trichlorobenzene	9.535	180	96765	70.4728	ug/l	96
106)	1,2,3-Trichlorobenzene	9.877	180	85698	68.8377	ug/l	97
107)	Naphthalene	9.721	128	240654	68.4660	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125273.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 50 PPB
Data File: 3M125273.D
Acq On : 02/21/18 09:38
Operator : SG
Sam Mult : 1 Vial# : 11
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 02/21/18 14:10
Qt Upd On: 02/21/18 13:51
Time-->

Sample ID : CAL @ 100 PPB
Data File: 3M125271.D
Acq On : 02/21/18 09:05

Operator : SG
Sam Mult : 1 Vial# : 9
Misc : A,5ML

Qt Meth : 3M_A00221.M
Qt On : 02/21/18 14:06
Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.946	96	311819	30.00	ug/l	-0.01
52) Chlorobenzene-d5	6.778	117	240979	30.00	ug/l	-0.01
70) 1,4-Dichlorobenzene-d4	8.220	152	97312	30.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	4.525	111	92782	29.73	ug/l	-0.01
Spiked Amount 30.000			Recovery = 99.10%			
39) 1,2-Dichloroethane-d4	4.742	67	60461	28.79	ug/l	-0.01
Spiked Amount 30.000			Recovery = 95.97%			
66) Toluene-d8	5.901	98	308155	32.78	ug/l	-0.01
Spiked Amount 30.000			Recovery = 109.27%			
76) Bromofluorobenzene	7.481	174	107856	33.08	ug/l	-0.01
Spiked Amount 30.000			Recovery = 110.27%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.592	51	188451m	40.1680	ug/l	
6) Dichlorodifluoromethane	1.575	85	67298	24.9434	ug/l	93
7) Chloromethane	1.742	50	154917	46.5732	ug/l	82
8) Bromomethane	2.105	94	92034	63.2663	ug/l	93
9) Vinyl Chloride	1.825	62	164975	60.1357	ug/l	96
10) Chloroethane	2.189	64	118719	64.1051	ug/l	86
11) Trichlorofluoromethane	2.399	101	340561	79.5554	ug/l	84
12) Ethyl ether	2.627	59	230699	89.1856	ug/l	81
13) Furan	2.663	39	551041	86.0032	ug/l	92
14) 1,1,2-Trichloro-1,2,2-...	2.813	101	140216	80.0496	ug/l	94
15) Methylene Chloride	3.222	84	245954	86.1638	ug/l	89
16) Acrolein	2.747	56	228015	423.7677	ug/l	91
17) Acrylonitrile	3.432	53	93722	82.0015	ug/l	99
18) Iodomethane	2.964	142	274776	94.4226	ug/l	97
19) Acetone	2.867	43	456306	402.0727	ug/l	97
20) Carbon Disulfide	3.024	76	597401	93.2924	ug/l	100
21) t-Butyl Alcohol	3.288	59	148176	441.7952	ug/l	88
22) n-Hexane	3.654	57	107640	88.9935	ug/l	78
23) Di-isopropyl-ether	3.817	45	844476	90.3379	ug/l	95
24) 1,1-Dichloroethene	2.825	61	367163	92.4461	ug/l	93
25) Methyl Acetate	3.126	43	353851	82.5971	ug/l	100
26) Methyl-t-butyl ether	3.432	73	739535	87.0404	ug/l	64
27) 1,1-Dichloroethane	3.799	63	441135	93.2100	ug/l	98
28) trans-1,2-Dichloroethene	3.444	96	233433	93.1454	ug/l	93
29) Ethyl-t-butyl ether	4.081	59	896633	94.6544	ug/l	96
30) cis-1,2-Dichloroethene	4.213	61	470933	87.3758	ug/l	86
31) Bromochloromethane	4.381	49	220840	71.9874	ug/l	93
32) 2,2-Dichloropropane	4.219	77	364640	100.6235	ug/l	93
33) Ethyl acetate	4.237	43	342323m	92.9333	ug/l	
34) 1,4-Dioxane	5.384	88	146005	4217.1014	ug/l	95
35) 1,1-Dichloropropene	4.646	75	325879	89.8231	ug/l	96
36) Chloroform	4.423	83	504510	88.9500	ug/l	85
38) Cyclohexane	4.579	56	188719	90.7450	ug/l	99
40) 1,2-Dichloroethane	4.790	62	467392	83.9443	ug/l	96
41) 2-Butanone	4.225	43	142667m	83.9872	ug/l	
42) 1,1,1-Trichloroethane	4.549	97	420611	93.1077	ug/l	100
43) Carbon Tetrachloride	4.652	117	310857	84.1046	ug/l	97
44) Vinyl Acetate	3.817	43	586405	89.5053	ug/l	100
45) Bromodichloromethane	5.474	83	393207	89.6334	ug/l	96
46) Methylcyclohexane	5.288	83	142298	91.6379	ug/l	96
47) Dibromomethane	5.396	174	213152	95.0657	ug/l	95
48) 1,2-Dichloropropane	5.312	63	236266	89.6064	ug/l	94
49) Trichloroethene	5.168	130	272701	92.9532	ug/l	82
50) Benzene	4.784	78	860400	87.4226	ug/l	100
51) tert-Amyl methyl ether	4.820	73	792443	91.4762	ug/l	72
53) Iso-propylacetate	4.778	43	659642	103.1545	ug/l	95
54) Methyl methacrylate	5.342	41	378329m	102.4095	ug/l	
55) Dibromochloromethane	6.430	129	313593	110.4934	ug/l	99
56) 2-Chloroethylvinylether	5.625	63	179847	109.1499	ug/l	83
57) cis-1,3-Dichloropropene	5.733	75	447116	120.8604	ug/l	95
58) trans-1,3-Dichloropropene	6.057	75	435714	118.2192	ug/l	100
59) Ethyl methacrylate	6.069	41	368313	104.3733	ug/l	79
60) 1,1,2-Trichloroethane	6.177	97	235936	102.3533	ug/l	94
61) 1,2-Dibromoethane	6.514	107	259684	101.3832	ug/l	91
62) 1,3-Dichloropropane	6.279	76	409285	103.2279	ug/l	98
63) 4-Methyl-2-Pentanone	5.805	43	309154	101.9714	ug/l	87
64) 2-Hexanone	6.291	43	211387	94.6660	ug/l	93
65) Tetrachloroethene	6.273	164	160514	107.2653	ug/l	99
67) Toluene	5.943	92	537537	105.4774	ug/l	98

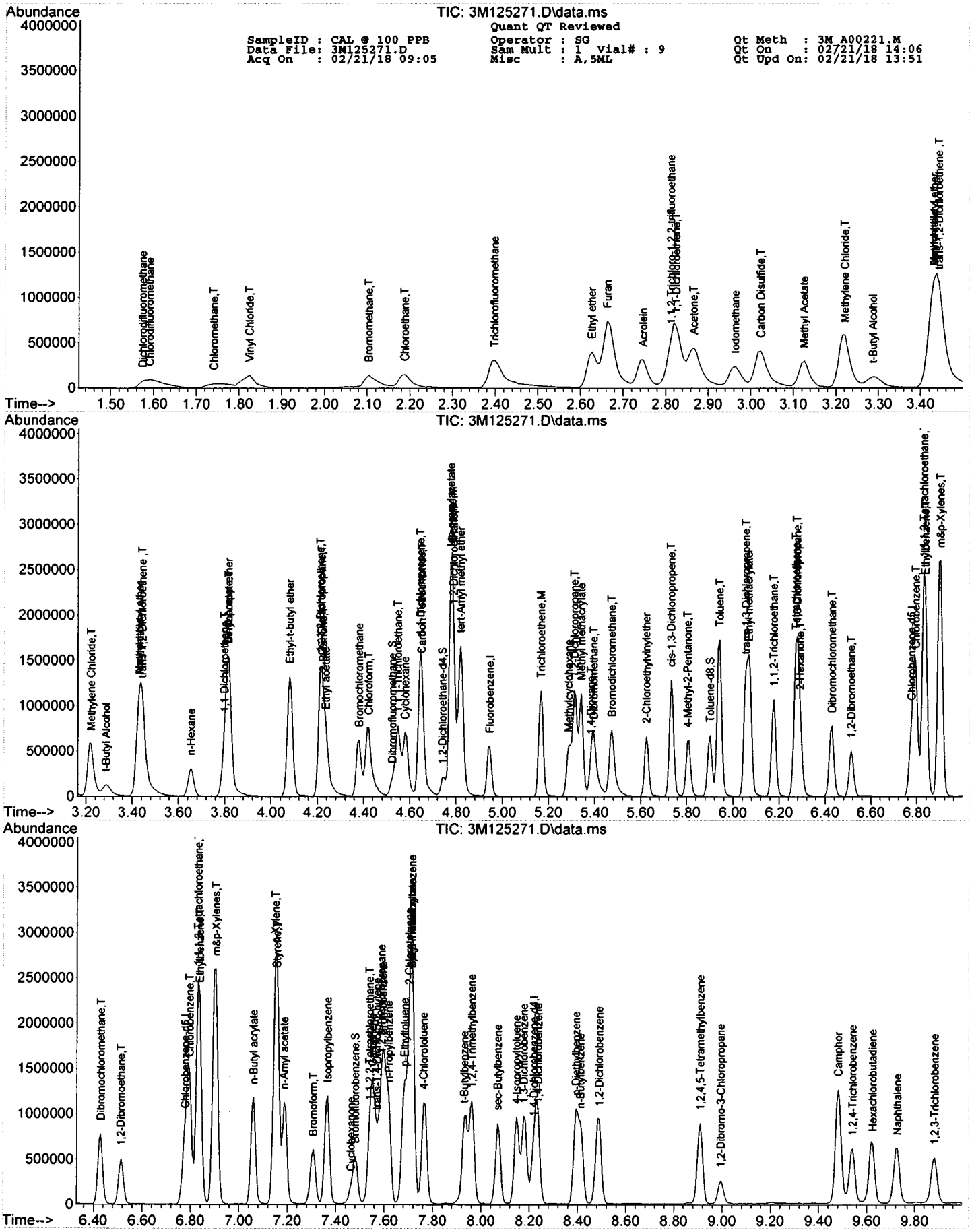
Quantitation Report (QT Reviewed)

SampleID : CAL @ 100 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125271.D Sam Mult : 1 Vial# : 9 Qt On : 02/21/18 14:06
Acq On : 02/21/18 09:05 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.832	133	238643	108.4718	ug/l	83
69)	Chlorobenzene	6.796	112	601110	103.5400	ug/l	96
71)	n-Butyl acrylate	7.060	55	600169	126.2897	ug/l	95
72)	n-Amyl acetate	7.186	43	527679	120.7716	ug/l	88
73)	Bromoform	7.307	173	219777	130.3033	ug/l	100
74)	Ethylbenzene	6.838	106	179712	119.0919	ug/l	80
75)	1,1,2,2-Tetrachloroethane	7.541	83	280976	112.5812	ug/l	92
77)	Styrene	7.156	104	600401	126.5287	ug/l	99
78)	m&p-Xylenes	6.904	106	576916	237.7872	ug/l	92
79)	o-Xylene	7.150	106	300655	116.0958	ug/l	79
80)	trans-1,4-Dichloro-2-b...	7.571	53	136588	124.5467	ug/l	64
81)	1,3-Dichlorobenzene	8.178	146	342993	123.7775	ug/l	91
82)	1,4-Dichlorobenzene	8.238	146	353827	118.4705	ug/l	96
83)	1,2-Dichlorobenzene	8.490	146	353175	123.8117	ug/l	94
84)	Isopropylbenzene	7.367	105	636909	127.2434	ug/l	96
85)	Cyclohexanone	7.463	55	51859	430.6990	ug/l	98
86)	Camphene	7.553	93	217633	143.3876	ug/l	97
87)	1,2,3-Trichloropropane	7.589	75	370330	114.3603	ug/l	98
88)	2-Chlorotoluene	7.703	91	376768	121.2324	ug/l	97
89)	p-Ethyltoluene	7.685	105	642720	123.9836	ug/l	80
90)	4-Chlorotoluene	7.763	91	381109	117.3767	ug/l	93
91)	n-Propylbenzene	7.619	91	647907	127.7156	ug/l	95
92)	Bromobenzene	7.595	77	616800	120.1858	ug/l	90
93)	1,3,5-Trimethylbenzene	7.715	105	390654	107.7049	ug/l	78
94)	Butyl methacrylate	7.715	41	437176	122.6495	ug/l	86
95)	t-Butylbenzene	7.931	119	453614	134.4532	ug/l	87
96)	1,2,4-Trimethylbenzene	7.961	105	549405	127.8628	ug/l	91
97)	sec-Butylbenzene	8.069	105	502742	140.0201	ug/l	97
98)	4-Isopropyltoluene	8.148	119	463957	145.4229	ug/l	93
99)	n-Butylbenzene	8.412	91	472630	136.1511	ug/l	90
100)	p-Diethylbenzene	8.394	119	282175	144.0282	ug/l	95
101)	1,2,4,5-Tetramethylben...	8.910	119	432967	153.1345	ug/l	93
102)	1,2-Dibromo-3-Chloropr...	8.995	157	61902	122.0331	ug/l	80
103)	Camphor	9.481	95	284763	1153.7543	ug/l	90
104)	Hexachlorobutadiene	9.625	225	162668	116.5331	ug/l	97
105)	1,2,4-Trichlorobenzene	9.541	180	181101	129.8836	ug/l	97
106)	1,2,3-Trichlorobenzene	9.884	180	162816	128.7903	ug/l	96
107)	Naphthalene	9.727	128	452132	126.6712	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125271.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 100 PPB
Data File: 3M125271.D
Acq On : 02/21/18 09:05
Operator : SG
Sam Mult : 1 Vial# : 9
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 02/21/18 14:06
Qt Upd On: 02/21/18 13:51
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL @ 250 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125269.D Sam Mult : 1 Vial# : 7 Qt On : 02/21/18 14:03
Acq On : 02/21/18 08:31 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.939	96	290589	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.771	117	222125	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	8.213	152	92255	30.00	ug/l	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	4.519	111	85512	29.40	ug/l	-0.02
Spiked Amount 30.000			Recovery = 98.00%			
39) 1,2-Dichloroethane-d4	4.741	67	59518	30.41	ug/l	-0.01
Spiked Amount 30.000			Recovery = 101.37%			
66) Toluene-d8	5.894	98	295042	34.05	ug/l	-0.02
Spiked Amount 30.000			Recovery = 113.50%			
76) Bromofluorobenzene	7.474	174	104942	33.95	ug/l	-0.02
Spiked Amount 30.000			Recovery = 113.17%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.593	51	484828m	110.8901	ug/l	
6) Dichlorodifluoromethane	1.576	85	171189	68.0852	ug/l	91
7) Chloromethane	1.759	50	377299	121.7155	ug/l	83
8) Bromomethane	2.098	94	171087	126.2015	ug/l	90
9) Vinyl Chloride	1.826	62	405497	158.6080	ug/l	95
10) Chloroethane	2.176	64	246997	143.1158	ug/l	94
11) Trichlorofluoromethane	2.392	101	836973	209.8019	ug/l	89
12) Ethyl ether	2.627	59	535062	221.9609	ug/l	80
13) Furan	2.663	39	1220793	204.4542	ug/l	96
14) 1,1,2-Trichloro-1,2,2-...	2.807	101	339596	208.0403	ug/l	97
15) Methylene Chloride	3.215	84	594299	223.4084	ug/l	94
16) Acrolein	2.741	56	568574	1133.9003	ug/l	95
17) Acrylonitrile	3.426	53	230005	215.9440	ug/l	94
18) Iodomethane	2.957	142	681927	251.4539	ug/l	94
19) Acetone	2.867	43	1121896	1060.7778	ug/l	95
20) Carbon Disulfide	3.017	76	1445477	242.2226	ug/l	100
21) t-Butyl Alcohol	3.287	59	375108	1200.1151	ug/l	83
22) n-Hexane	3.648	57	252182	223.7290	ug/l	78
23) Di-isopropyl-ether	3.810	45	1929308	221.4663	ug/l	97
24) 1,1-Dichloroethene	2.819	61	843590	227.9212	ug/l	95
25) Methyl Acetate	3.119	43	840004	210.4016	ug/l	100
26) Methyl-t-butyl ether	3.426	73	1659863	209.6322	ug/l	64
27) 1,1-Dichloroethane	3.792	63	1023645	232.0938	ug/l	99
28) trans-1,2-Dichloroethene	3.444	96	534843	229.0072	ug/l	98
29) Ethyl-t-butyl ether	4.074	59	2041719	231.2840	ug/l	96
30) cis-1,2-Dichloroethene	4.206	61	1086022	216.2192	ug/l	83
31) Bromochloromethane	4.375	49	671666m	234.9391	ug/l	
32) 2,2-Dichloropropane	4.212	77	837829	248.0926	ug/l	93
33) Ethyl acetate	4.231	43	749857m	218.4426	ug/l	
34) 1,4-Dioxane	5.384	88	346975	10753.9472	ug/l	87
35) 1,1-Dichloropropene	4.639	75	715025	211.4835	ug/l	93
36) Chloroform	4.417	83	1174688	222.2399	ug/l	86
38) Cyclohexane	4.579	56	433703	223.7808	ug/l	98
40) 1,2-Dichloroethane	4.789	62	1006447	193.9653	ug/l	100
41) 2-Butanone	4.218	43	310921m	196.4097	ug/l	
42) 1,1,1-Trichloroethane	4.543	97	988730	234.8583	ug/l	98
43) Carbon Tetrachloride	4.645	117	721009	209.3261	ug/l	91
44) Vinyl Acetate	3.810	43	1348007	220.7836	ug/l	100
45) Bromodichloromethane	5.468	83	936215	229.0064	ug/l	99
46) Methylcyclohexane	5.282	83	330593	228.4511	ug/l	94
47) Dibromomethane	5.390	174	477019	228.2935	ug/l	93
48) 1,2-Dichloropropane	5.306	63	547539	222.8313	ug/l	98
49) Trichloroethene	5.162	130	599510	219.2792	ug/l	89
50) Benzene	4.771	78	1795671	195.7823	ug/l	100
51) tert-Amyl methyl ether	4.813	73	1719011	212.9325	ug/l	73
53) Iso-propylacetate	4.771	43	1487837	252.4160	ug/l	96
54) Methyl methacrylate	5.336	41	881390m	258.8334	ug/l	
55) Dibromochloromethane	6.423	129	724417	276.9111	ug/l	96
56) 2-Chloroethylvinylether	5.618	63	418846	275.7759	ug/l	87
57) cis-1,3-Dichloropropene	5.726	75	1028000	301.4661	ug/l	94
58) trans-1,3-Dichloropropene	6.051	75	1002446	295.0729	ug/l	99
59) Ethyl methacrylate	6.069	41	846584	260.2700	ug/l	80
60) 1,1,2-Trichloroethane	6.171	97	536014	252.2699	ug/l	92
61) 1,2-Dibromoethane	6.507	107	608805	257.8580	ug/l	95
62) 1,3-Dichloropropane	6.273	76	899849	246.2196	ug/l	98
63) 4-Methyl-2-Pentanone	5.804	43	747806	267.5927	ug/l	90
64) 2-Hexanone	6.285	43	511363	248.4431	ug/l	91
65) Tetrachloroethene	6.267	164	342307	248.1670	ug/l	100
67) Toluene	5.936	92	1189940	253.3132	ug/l	98

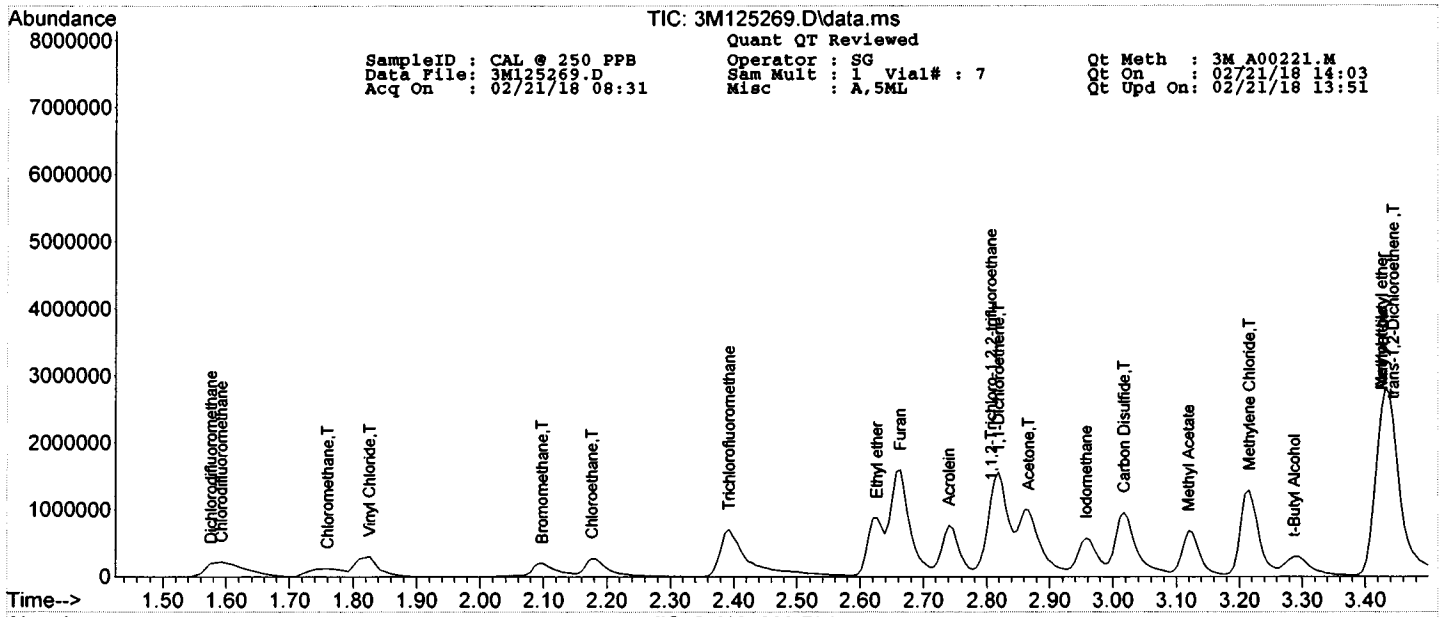
Quantitation Report (QT Reviewed)

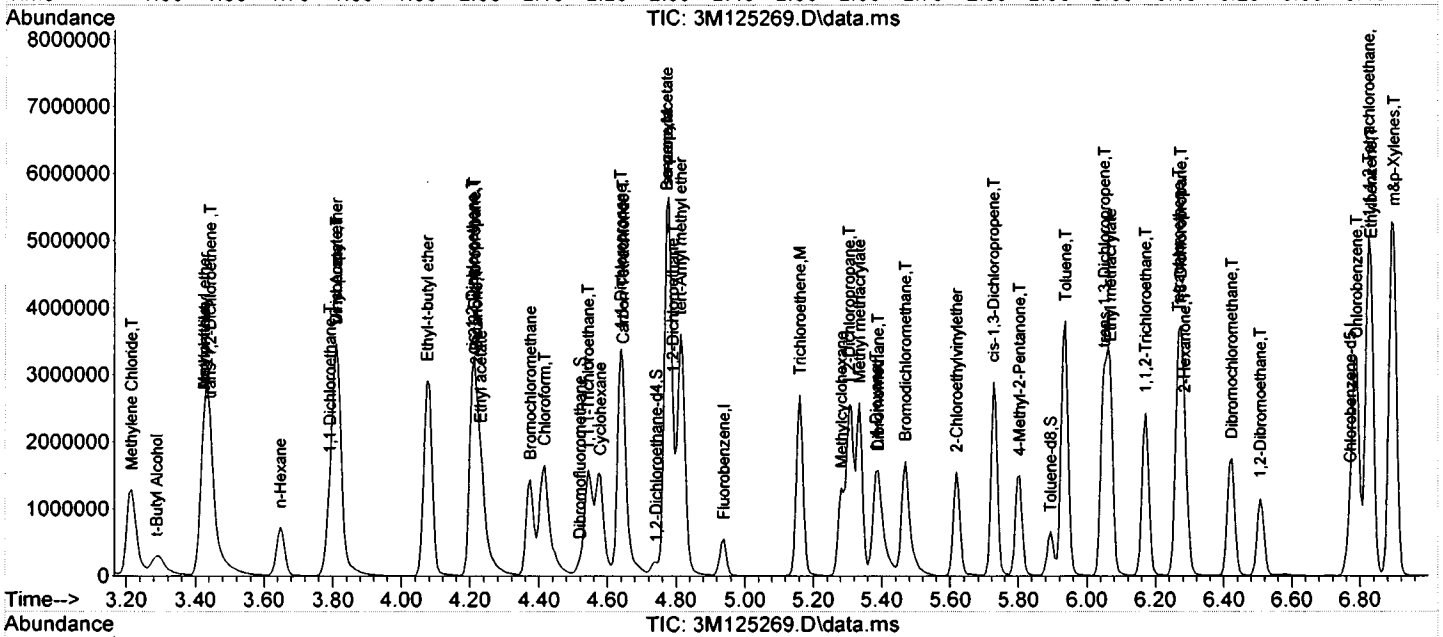
SampleID : CAL @ 250 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125269.D Sam Mult : 1 Vial# : 7 Qt On : 02/21/18 14:03
Acq On : 02/21/18 08:31 Misc : A,5ML Qt Upd On: 02/21/18 13:51

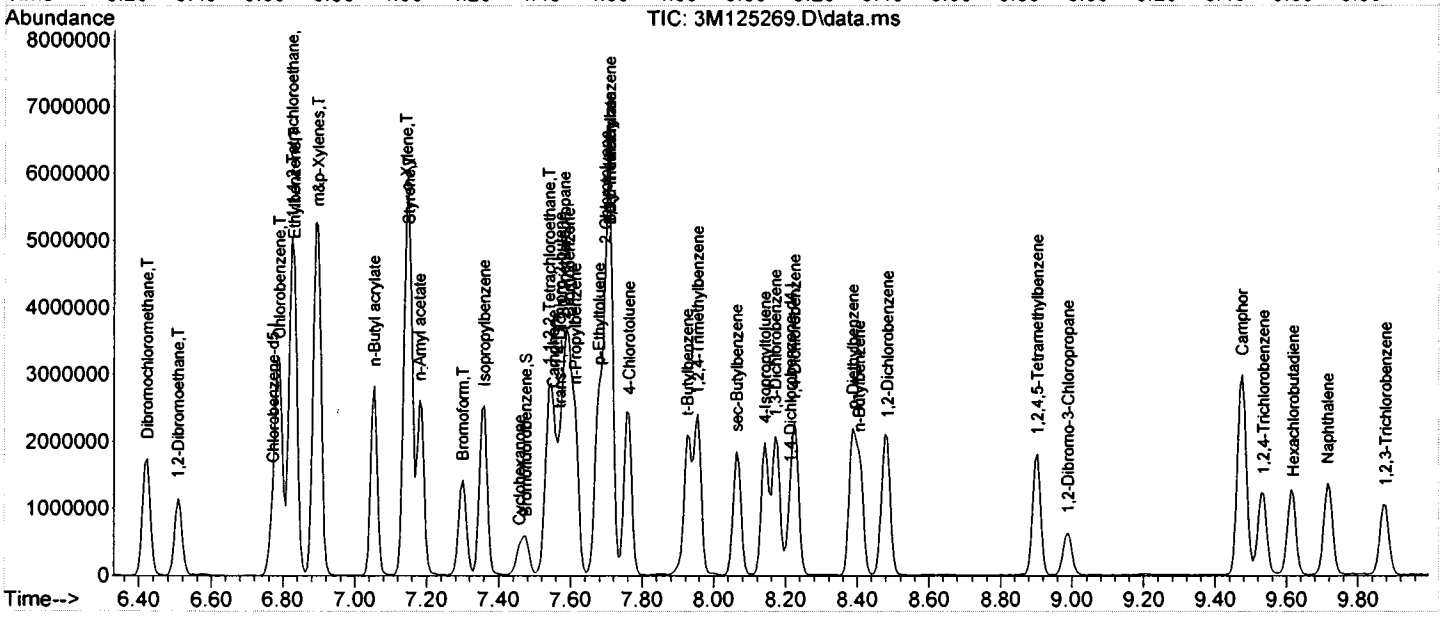
Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.825	133	511549	252.2534	ug/l	81
69)	Chlorobenzene	6.789	112	1318092	246.3098	ug/l	94
71)	n-Butyl acrylate	7.054	55	1428876	317.1504	ug/l	94
72)	n-Amyl acetate	7.180	43	1232641	297.5831	ug/l	87
73)	Bromoform	7.300	173	531870	332.6251	ug/l	94
74)	Ethylbenzene	6.832	106	364352	254.6847	ug/l	83
75)	1,1,2,2-Tetrachloroethane	7.540	83	646824	273.3752	ug/l	94
77)	Styrene	7.150	104	1262326	280.6052	ug/l	100
78)	m&p-Xylenes	6.898	106	1219943	530.3859	ug/l	82
79)	o-Xylene	7.144	106	650541	264.9715	ug/l	76
80)	trans-1,4-Dichloro-2-b...	7.570	53	313462	301.4956	ug/l	60
81)	1,3-Dichlorobenzene	8.171	146	764141	290.8750	ug/l	91
82)	1,4-Dichlorobenzene	8.225	146	777899	274.7382	ug/l	95
83)	1,2-Dichlorobenzene	8.483	146	779850	288.3761	ug/l	92
84)	Isopropylbenzene	7.360	105	1391619	293.2613	ug/l	95
85)	Cyclohexanone	7.456	55	124562	1091.2186	ug/l	90
86)	Camphene	7.552	93	421776	293.1198	ug/l	100
87)	1,2,3-Trichloropropane	7.582	75	850308	276.9740	ug/l	96
88)	2-Chlorotoluene	7.697	91	742043	251.8549	ug/l	96
89)	p-Ethyltoluene	7.678	105	1486040	302.3774	ug/l	76
90)	4-Chlorotoluene	7.763	91	817495	265.5793	ug/l	93
91)	n-Propylbenzene	7.612	91	1339687	278.5551	ug/l	94
92)	Bromobenzene	7.594	77	1318685	271.0357	ug/l	90
93)	1,3,5-Trimethylbenzene	7.709	105	756846	220.1037	ug/l	77
94)	Butyl methacrylate	7.709	41	931222	275.5745	ug/l	86
95)	t-Butylbenzene	7.925	119	967247	302.4117	ug/l	87
96)	1,2,4-Trimethylbenzene	7.955	105	1169542	287.1072	ug/l	90
97)	sec-Butylbenzene	8.063	105	1079038	316.9995	ug/l	100
98)	4-Isopropyltoluene	8.141	119	959854	317.3486	ug/l	95
99)	n-Butylbenzene	8.405	91	1000800	304.1050	ug/l	90
100)	p-Diethylbenzene	8.387	119	592451	318.9758	ug/l	93
101)	1,2,4,5-Tetramethylben...	8.904	119	905790	337.9265	ug/l	93
102)	1,2-Dibromo-3-Chloropr...	8.988	157	164660	342.4030	ug/l	76
103)	Camphor	9.475	95	679050	2902.0709	ug/l	92
104)	Hexachlorobutadiene	9.619	225	293574	221.8408	ug/l	96
105)	1,2,4-Trichlorobenzene	9.535	180	387298	292.9917	ug/l	97
106)	1,2,3-Trichlorobenzene	9.877	180	344028	287.0492	ug/l	96
107)	Naphthalene	9.715	128	1043243	308.3008	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125269.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 250 PPB
Data File: 3M125269.D
Acq On : 02/21/18 08:31
Operator : SG
Sam Mult : 1 Vial# : 7
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 02/21/18 14:03
Qt Upd On: 02/21/18 13:51
Dichlorodifluoromethane
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
trans-1,2-Dichloroethene,T
Time-->


Abundance
TIC: 3M125269.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
1,1-Dichloroethane,T
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,T
Cyclohexane
Carbon Tetrachloride,T
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Methylcyclohexane
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,T
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Tetrachloroethene,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5
Ethylbenzene,T
m&p-Xylenes,T
Time-->


Abundance
TIC: 3M125269.D\data.ms
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5
Chlorobenzene,T
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromobenzene,S
1,1,2,2-Tetrachloroethane,T
n-Propylbenzene
p-Ethyltoluene
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
4-Isopropyltoluene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

SampleID : CAL @ 500 PPB Operator : SG Qt Meth : 3M_A00224.M
Data File: 3M125267.D Sam Mult : 1 Vial# : 5 Qt On : 02/21/18 13:57
Acq On : 02/21/18 07:58 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.940	96	285517	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.772	117	216249	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	8.207	152	83955	30.00	ug/l	-0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.519	111	82310	28.80	ug/l	-0.02
Spiked Amount 30.000			Recovery = 96.00%			
39) 1,2-Dichloroethane-d4	4.741	67	55087	28.65	ug/l	-0.01
Spiked Amount 30.000			Recovery = 95.50%			
66) Toluene-d8	5.895	98	286505	33.96	ug/l	-0.02
Spiked Amount 30.000			Recovery = 113.20%			
76) Bromofluorobenzene	7.481	174	99022	35.20	ug/l	-0.01
Spiked Amount 30.000			Recovery = 117.33%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.596	51	961293m	223.7732	ug/l	
6) Dichlorodifluoromethane	1.563	85	343716	139.1310	ug/l	90
7) Chloromethane	1.763	50	720150	236.4451	ug/l	82
8) Bromomethane	2.080	94	179105m	134.4629	ug/l	
9) Vinyl Chloride	1.813	62	811234	322.9466	ug/l	96
10) Chloroethane	2.164	64	346605	204.3985	ug/l	97
11) Trichlorofluoromethane	2.387	101	1507307	384.5447	ug/l	85
12) Ethyl ether	2.621	59	987751	417.0298	ug/l	82
13) Furan	2.657	39	2246414	382.9050	ug/l	95
14) 1,1,2-Trichloro-1,2,2-...	2.801	101	598158	372.9478	ug/l	98
15) Methylene Chloride	3.210	84	1072000	410.1441	ug/l	97
16) Acrolein	2.741	56	1013052	2056.2068	ug/l	96
17) Acrylonitrile	3.426	53	407588	389.4685	ug/l	99
18) Iodomethane	2.951	142	1301743	488.5319	ug/l	96
19) Acetone	2.867	43	2013579	1937.7051	ug/l	94
20) Carbon Disulfide	3.011	76	2666252	454.7282	ug/l	100
21) t-Butyl Alcohol	3.300	59	702881	2288.7354	ug/l	81
22) n-Hexane	3.648	57	472603	426.7287	ug/l	75
23) Di-isopropyl-ether	3.810	45	3309300	386.6246	ug/l	96
24) 1,1-Dichloroethene	2.813	61	1539191	423.2461	ug/l	95
25) Methyl Acetate	3.119	43	1552711	395.8272	ug/l	100
26) Methyl-t-butyl ether	3.426	73	2802658	360.2492	ug/l	64
27) 1,1-Dichloroethane	3.792	63	1817562	419.4214	ug/l	95
28) trans-1,2-Dichloroethene	3.444	96	929711	405.1520	ug/l	92
29) Ethyl-t-butyl ether	4.075	59	3432002	395.6802	ug/l	97
30) cis-1,2-Dichloroethene	4.207	61	1876283	380.1905	ug/l	82
31) Bromochloromethane	4.369	49	1240105m	441.4764	ug/l	
32) 2,2-Dichloropropane	4.213	77	1447675	436.2915	ug/l	92
33) Ethyl acetate	4.231	43	1400310m	415.1741	ug/l	
34) 1,4-Dioxane	5.384	88	600880	18954.1653	ug/l	84
35) 1,1-Dichloropropene	4.639	75	1207725	363.5554	ug/l	96
36) Chloroform	4.417	83	2066760	397.9575	ug/l	89
38) Cyclohexane	4.579	56	775211	407.0967	ug/l	98
40) 1,2-Dichloroethane	4.789	62	1606411	315.0917	ug/l	96
41) 2-Butanone	4.219	43	498822m	320.7049	ug/l	
42) 1,1,1-Trichloroethane	4.543	97	1767814	427.3779	ug/l	95
43) Carbon Tetrachloride	4.651	117	1236813	365.4550	ug/l	92
44) Vinyl Acetate	3.810	43	2323280	387.2784	ug/l	100
45) Bromodichloromethane	5.468	83	1673168	416.5420	ug/l	96
46) Methylcyclohexane	5.282	83	593799	417.6249	ug/l	95
47) Dibromomethane	5.390	174	826931	402.7860	ug/l	94
48) 1,2-Dichloropropane	5.312	63	962070	398.4877	ug/l	94
49) Trichloroethene	5.162	130	1027854	382.6305	ug/l	89
50) Benzene	4.771	78	2863120	317.7118	ug/l	100
51) tert-Amyl methyl ether	4.819	73	2801198	353.1461	ug/l	73
53) Iso-propylacetate	4.777	43	2378359	414.4596	ug/l	95
54) Methyl methacrylate	5.336	41	1579985	476.5940	ug/l	94
55) Dibromochloromethane	6.423	129	1237699	485.9706	ug/l	91
56) 2-Chloroethylvinylether	5.618	63	758894	513.2470	ug/l	86
57) cis-1,3-Dichloropropene	5.727	75	1772103	533.7989	ug/l	94
58) trans-1,3-Dichloropropene	6.051	75	1650425	499.0080	ug/l	93
59) Ethyl methacrylate	6.069	41	1459579	460.9194	ug/l	81
60) 1,1,2-Trichloroethane	6.171	97	921915	445.6804	ug/l	91
61) 1,2-Dibromoethane	6.507	107	1052685	457.9776	ug/l	93
62) 1,3-Dichloropropane	6.279	76	1466170	412.0792	ug/l	100
63) 4-Methyl-2-Pentanone	5.805	43	1335014	490.6981	ug/l	89
64) 2-Hexanone	6.291	43	887831	443.0690	ug/l	89
65) Tetrachloroethene	6.267	164	548518	408.4722	ug/l	99
67) Toluene	5.937	92	2012628	440.0880	ug/l	95

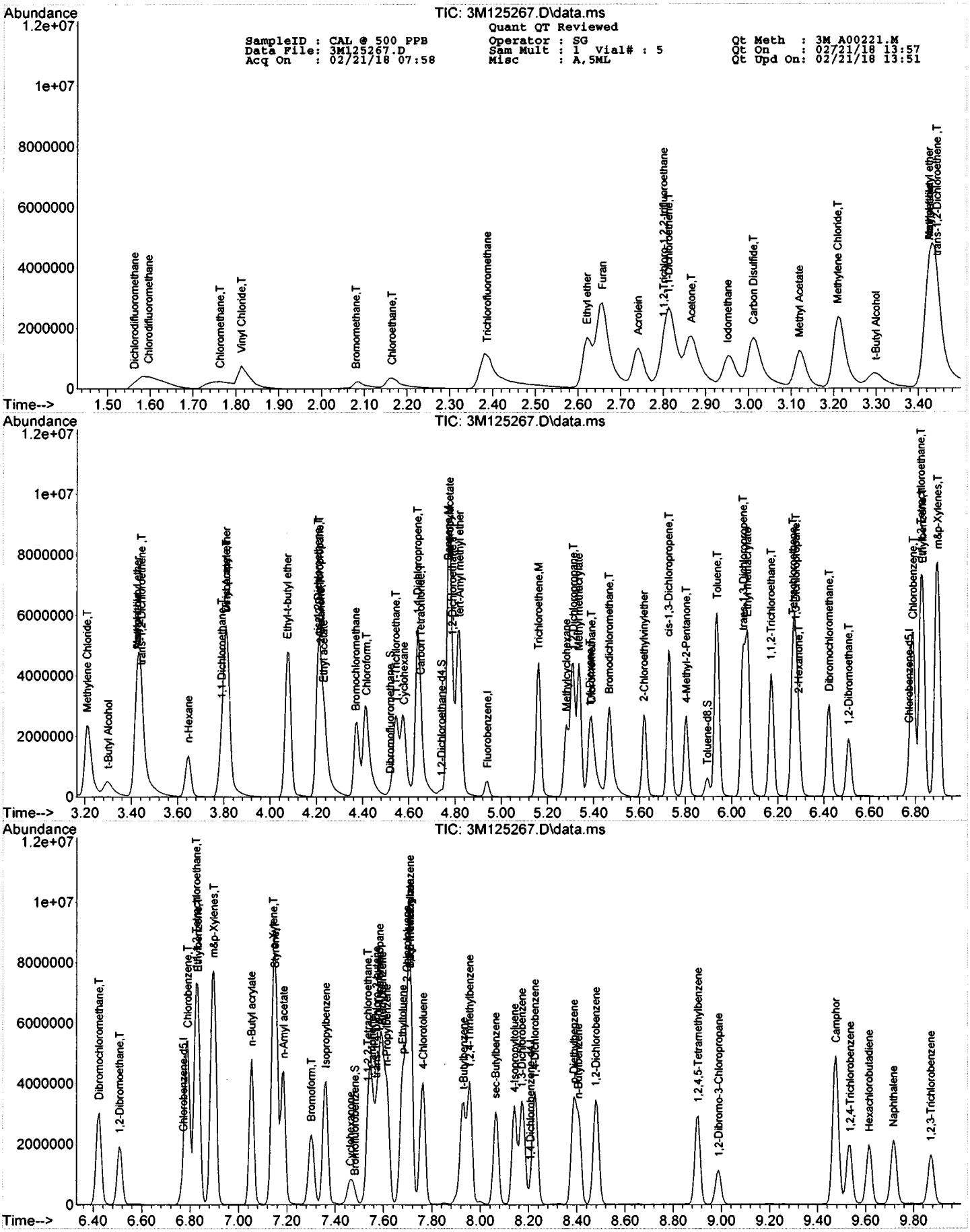
Quantitation Report (QT Reviewed)

SampleID : CAL @ 500 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125267.D Sam Mult : 1 Vial# : 5 Qt On : 02/21/18 13:57
Acq On : 02/21/18 07:58 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.826	133	793472	401.9062	ug/l	83
69)	Chlorobenzene	6.790	112	2233218	428.6574	ug/l	93
71)	n-Butyl acrylate	7.054	55	2431213	592.9759	ug/l	94
72)	n-Amyl acetate	7.186	43	2088485	554.0467	ug/l	85
73)	Bromoform	7.300	173	896821	616.3092	ug/l	96
74)	Ethylbenzene	6.832	106	531096	407.9417	ug/l	81
75)	1,1,2,2-Tetrachloroethane	7.535	83	1103509	512.4980	ug/l	92
77)	Styrene	7.150	104	1939160	473.6759	ug/l	99
78)	m&p-Xylenes	6.898	106	1911020	912.9795	ug/l	81
79)	o-Xylene	7.144	106	1023663	458.1682	ug/l	72
80)	trans-1,4-Dichloro-2-b...	7.571	53	519637	549.2113	ug/l	59
81)	1,3-Dichlorobenzene	8.171	146	1260172	527.1159	ug/l	92
82)	1,4-Dichlorobenzene	8.225	146	1282553	497.7538	ug/l	94
83)	1,2-Dichlorobenzene	8.478	146	1295264	526.3199	ug/l	93
84)	Isopropylbenzene	7.360	105	2280225	528.0262	ug/l	95
85)	Cyclohexanone	7.463	55	235183	2263.9950	ug/l	93
86)	Camphene	7.553	93	670734	512.2205	ug/l	99
87)	1,2,3-Trichloropropane	7.583	75	1362343	487.6323	ug/l	94
88)	2-Chlorotoluene	7.697	91	1095649	408.6355	ug/l	96
89)	p-Ethyltoluene	7.679	105	2328423	520.6238	ug/l	78
90)	4-Chlorotoluene	7.763	91	1346421	480.6550	ug/l	94
91)	n-Propylbenzene	7.613	91	2205317	503.8743	ug/l	93
92)	Bromobenzene	7.595	77	2078585	469.4578	ug/l	90
93)	1,3,5-Trimethylbenzene	7.709	105	1116142	356.6832	ug/l	76
94)	Butyl methacrylate	7.709	41	1489541	484.3750	ug/l	84
95)	t-Butylbenzene	7.931	119	1604549	551.2614	ug/l	88
96)	1,2,4-Trimethylbenzene	7.955	105	1935660	522.1565	ug/l	90
97)	sec-Butylbenzene	8.063	105	1794021	579.1522	ug/l	97
98)	4-Isopropyltoluene	8.141	119	1597858	580.5144	ug/l	95
99)	n-Butylbenzene	8.406	91	1621573	541.4472	ug/l	91
100)	p-Diethylbenzene	8.388	119	998637	590.8216	ug/l	91
101)	1,2,4,5-Tetramethylben...	8.904	119	1513254	620.3688	ug/l	92
102)	1,2-Dibromo-3-Chloropr...	8.988	157	284753	650.6706	ug/l	79
103)	Camphor	9.475	95	1129776	5305.6911	ug/l	92
104)	Hexachlorobutadiene	9.613	225	455332	378.0901	ug/l	96
105)	1,2,4-Trichlorobenzene	9.535	180	620844	516.1024	ug/l	97
106)	1,2,3-Trichlorobenzene	9.871	180	530391	486.2975	ug/l	96
107)	Naphthalene	9.715	128	1627809	528.6107	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 3M125267.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 500 PPB
Data File: 3M125267.D
Acq On : 02/21/18 07:58
Operator : SG
Sam Mult : 1 Vial# : 5
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 02/21/18 13:57
Qt Upd On: 02/21/18 13:51
Abundance
Time-->

Quantitation Report (QT Reviewed)

8022605 0082

SampleID : CAL @ 1 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125282.D Sam Mult : 1 Vial# : 17 Qt On : 02/21/18 14:17
Acq On : 02/21/18 12:09 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
4) Fluorobenzene	4.939	96	314772	30.00	ug/l		-0.02
52) Chlorobenzene-d5	6.771	117	238770	30.00	ug/l		-0.02
70) 1,4-Dichlorobenzene-d4	8.213	152	107685	30.00	ug/l		-0.01
System Monitoring Compounds							
37) Dibromofluoromethane	4.525	111	90556	28.74	ug/l		-0.01
Spiked Amount 30.000			Recovery = 95.80%				
39) 1,2-Dichloroethane-d4	4.741	67	66321	31.29	ug/l		-0.01
Spiked Amount 30.000			Recovery = 104.30%				
66) Toluene-d8	5.894	98	301916	32.41	ug/l		-0.02
Spiked Amount 30.000			Recovery = 108.03%				
76) Bromofluorobenzene	7.480	174	114219	31.65	ug/l		-0.01
Spiked Amount 30.000			Recovery = 105.50%				
Target Compounds							Qvalue
5) Chlorodifluoromethane	1.597	51	4673	0.9867	ug/l		31
6) Dichlorodifluoromethane	1.580	85	376	0.1381	ug/l	#	35
7) Chloromethane	1.730	50	1066	0.3175	ug/l	#	31
8) Bromomethane	2.110	94	1634	1.1127	ug/l		76
9) Vinyl Chloride	1.830	62	1181	0.4265	ug/l		44
10) Chloroethane	2.200	64	1162	0.6216	ug/l		96
11) Trichlorofluoromethane	2.398	101	3102	0.7178	ug/l		65
12) Ethyl ether	2.620	59	1944	0.7445	ug/l		49
13) Furan	2.663	39	6942	1.0733	ug/l		87
14) 1,1,2-Trichloro-1,2,2-...	2.831	101	901	0.5096	ug/l	#	39
15) Methylene Chloride	3.221	84	3774	1.3097	ug/l		77
16) Acrolein	2.753	56	1705	3.1390	ug/l		72
17) Acrylonitrile	3.425	53	620m	0.5374	ug/l		
18) Iodomethane	2.963	142	2659	0.9052	ug/l		59
19) Acetone	2.885	43	5419	4.7301	ug/l		76
20) Carbon Disulfide	3.023	76	4305	0.6660	ug/l		100
21) t-Butyl Alcohol	3.287	59	1296	3.8278	ug/l		7
22) n-Hexane	3.648	57	1293	1.0590	ug/l	#	62
23) Di-isopropyl-ether	3.816	45	10256	1.0868	ug/l		81
24) 1,1-Dichloroethene	2.819	61	4260	1.0625	ug/l		80
25) Methyl Acetate	3.125	43	3890	0.8995	ug/l		100
26) Methyl-t-butyl ether	3.431	73	9390	1.0948	ug/l		58
27) 1,1-Dichloroethane	3.792	63	5222	1.0930	ug/l		81
28) trans-1,2-Dichloroethene	3.443	96	2319	0.9167	ug/l		70
29) Ethyl-t-butyl ether	4.080	59	10693	1.1182	ug/l		95
30) cis-1,2-Dichloroethene	4.218	61	5026	0.9238	ug/l		96
31) Bromochloromethane	4.375	49	2148	0.6936	ug/l		78
32) 2,2-Dichloropropane	4.218	77	3005	0.8215	ug/l		80
33) Ethyl acetate	4.236	43	4155m	1.1174	ug/l		
34) 1,4-Dioxane	5.390	88	1872	53.5622	ug/l		75
35) 1,1-Dichloropropene	4.639	75	4272	1.1665	ug/l		91
36) Chloroform	4.417	83	5171	0.9031	ug/l		72
38) Cyclohexane	4.573	56	1901	0.9055	ug/l		87
40) 1,2-Dichloroethane	4.795	62	5809	1.0335	ug/l		80
41) 2-Butanone	4.218	43	1027m	0.5989	ug/l		
42) 1,1,1-Trichloroethane	4.549	97	4339	0.9515	ug/l		52
43) Carbon Tetrachloride	4.645	117	3042	0.8153	ug/l		95
44) Vinyl Acetate	3.816	43	6499	0.9827	ug/l		100
45) Bromodichloromethane	5.474	83	3092	0.6982	ug/l		68
46) Methylcyclohexane	5.288	83	1899	1.2115	ug/l		80
47) Dibromomethane	5.390	174	2630	1.1620	ug/l	#	52
48) 1,2-Dichloropropane	5.318	63	2680	1.0069	ug/l		95
49) Trichloroethene	5.167	130	2857	0.9647	ug/l		88
50) Benzene	4.783	78	10775	1.0845	ug/l		100
51) tert-Amyl methyl ether	4.819	73	10708	1.2245	ug/l		79
53) Iso-propylacetate	4.777	43	8184	1.2916	ug/l		92
54) Methyl methacrylate	5.336	41	3834	1.0474	ug/l		79
55) Dibromochloromethane	6.423	129	1782	0.6337	ug/l		97
56) 2-Chloroethylvinylether	5.624	63	2098	1.2851	ug/l		94
57) cis-1,3-Dichloropropene	5.732	75	3417	0.9322	ug/l		65
58) trans-1,3-Dichloropropene	6.050	75	3483	0.9538	ug/l		79
59) Ethyl methacrylate	6.068	41	4205	1.2026	ug/l		88
60) 1,1,2-Trichloroethane	6.177	97	2910	1.2741	ug/l		73
61) 1,2-Dibromoethane	6.507	107	3145	1.2392	ug/l		71
62) 1,3-Dichloropropane	6.279	76	5381	1.3697	ug/l		90
63) 4-Methyl-2-Pentanone	5.804	43	4330	1.4414	ug/l		96
64) 2-Hexanone	6.291	43	2590	1.1706	ug/l		76
65) Tetrachloroethene	6.267	164	1993	1.3442	ug/l		59
67) Toluene	5.936	92	7625	1.5100	ug/l		67

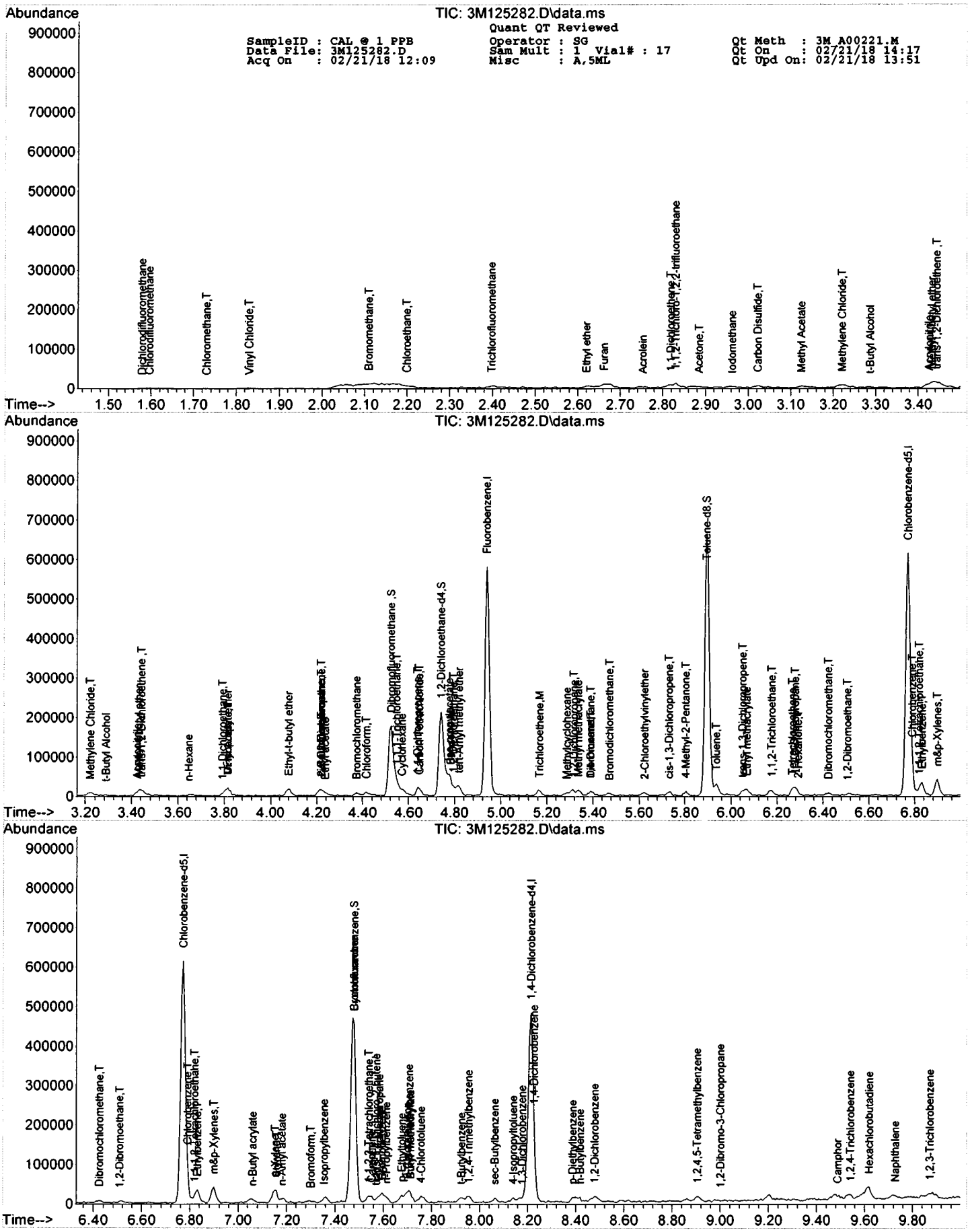
Quantitation Report (QT Reviewed)

SampleID : CAL @ 1 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125282.D Sam Mult : 1 Vial# : 17 Qt On : 02/21/18 14:17
Acq On : 02/21/18 12:09 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.819	133	2326	1.0670	ug/l		72
69)	Chlorobenzene	6.789	112	7290	1.2673	ug/l		88
71)	n-Butyl acrylate	7.060	55	5221	0.9928	ug/l		90
72)	n-Amyl acetate	7.180	43	4933	1.0203	ug/l		84
73)	Bromoform	7.300	173	1444	0.7737	ug/l		73
74)	Ethylbenzene	6.831	106	2165	1.2965	ug/l		93
75)	1,1,2,2-Tetrachloroethane	7.540	83	3767	1.3640	ug/l		76
77)	Styrene	7.156	104	6914	1.3167	ug/l		83
78)	m&p-Xylenes	6.897	106	7254	2.7019	ug/l		97
79)	o-Xylene	7.150	106	3737	1.3040	ug/l		65
80)	trans-1,4-Dichloro-2-b...	7.570	53	884	0.7284	ug/l		83
81)	1,3-Dichlorobenzene	8.177	146	4019	1.3106	ug/l	#	78
82)	1,4-Dichlorobenzene	8.225	146	4513	1.3655	ug/l		73
83)	1,2-Dichlorobenzene	8.477	146	4490	1.4224	ug/l		93
84)	Isopropylbenzene	7.354	105	6327	1.1423	ug/l		85
85)	Cyclohexanone	7.480	55	506m	3.7976	ug/l		
86)	Camphene	7.552	93	2188	1.3027	ug/l		90
87)	1,2,3-Trichloropropane	7.582	75	4238m	1.1827	ug/l		
88)	2-Chlorotoluene	7.702	91	4828m	1.4039	ug/l		
89)	p-Ethyltoluene	7.678	105	5242m	0.9138	ug/l		
90)	4-Chlorotoluene	7.756	91	4666	1.2986	ug/l		83
91)	n-Propylbenzene	7.612	91	6407	1.1413	ug/l		93
92)	Bromobenzene	7.594	77	6948	1.2234	ug/l		85
93)	1,3,5-Trimethylbenzene	7.708	105	4137	1.0307	ug/l		53
94)	Butyl methacrylate	7.714	41	4902	1.2428	ug/l		65
95)	t-Butylbenzene	7.925	119	4495m	1.2040	ug/l		
96)	1,2,4-Trimethylbenzene	7.955	105	5953	1.2520	ug/l		78
97)	sec-Butylbenzene	8.063	105	5495m	1.3830	ug/l		
98)	4-Isopropyltoluene	8.141	119	4163	1.1792	ug/l		99
99)	n-Butylbenzene	8.417	91	5810	1.5125	ug/l		85
100)	p-Diethylbenzene	8.387	119	4012	1.8506	ug/l	#	2
101)	1,2,4,5-Tetramethylben...	8.904	119	5561	1.7774	ug/l		88
102)	1,2-Dibromo-3-Chloropr...	9.000	157	354m	0.6306	ug/l		
103)	Camphor	9.486	95	1581m	5.7886	ug/l		
104)	Hexachlorobutadiene	9.619	225	1891m	1.2242	ug/l		
105)	1,2,4-Trichlorobenzene	9.540	180	3025	1.9605	ug/l		88
106)	1,2,3-Trichlorobenzene	9.871	180	2257m	1.6134	ug/l		
107)	Naphthalene	9.727	128	5892	1.4917	ug/l		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125282.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 1 PPB
Data File: 3M125282.D
Acq On : 02/21/18 12:09
Operator : SG
Sam Mult : 1 Vial# : 17
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 02/21/18 14:17
Qt Upd On: 02/21/18 13:51
Dichlorodifluoromethane
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Time-->

Abundance
TIC: 3M125282.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
Methylcyclohexane
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene,T
Toluene-d8,S
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
Time-->

Abundance
TIC: 3M125282.D\data.ms
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
n-Butyl acrylate
Bromoform,T
Isopropylbenzene
4-Chlorotoluene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Quantitation Report (QT Reviewed)

8022605 0085

SampleID : CAL @ 0.5 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125281.D Sam Mult : 1 Vial# : 16 Qt On : 02/21/18 14:13
Acq On : 02/21/18 11:52 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.941	96	304201	30.00	ug/l	-0.02
52) Chlorobenzene-d5	6.773	117	229725	30.00	ug/l	-0.02
70) 1,4-Dichlorobenzene-d4	8.209	152	96407	30.00	ug/l	-0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.526	111	83826	27.53	ug/l	-0.01
Spiked Amount 30.000			Recovery = 91.77%			
39) 1,2-Dichloroethane-d4	4.743	67	63938	31.21	ug/l	-0.01
Spiked Amount 30.000			Recovery = 104.03%			
66) Toluene-d8	5.896	98	296347	33.07	ug/l	-0.02
Spiked Amount 30.000			Recovery = 110.23%			
76) Bromofluorobenzene	0.000	174	0d	0.00	ug/l	
Spiked Amount 30.000			Recovery = 0.00%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	0.000		0	N.D. d		
6) Dichlorodifluoromethane	0.000		0	N.D.		
7) Chloromethane	0.000		0	N.D.		
8) Bromomethane	0.000		0	N.D. d		
9) Vinyl Chloride	0.000		0	N.D. d		
10) Chloroethane	0.000		0	N.D. d		
11) Trichlorofluoromethane	0.000		0	N.D. d		
12) Ethyl ether	0.000		0	N.D. d		
13) Furan	0.000		0	N.D. d		
14) 1,1,2-Trichloro-1,2,2-...	0.000		0	N.D. d		
15) Methylene Chloride	0.000		0	N.D. d		
16) Acrolein	0.000		0	N.D. d		
17) Acrylonitrile	0.000		0	N.D. d		
18) Iodomethane	0.000		0	N.D. d		
19) Acetone	0.000		0	N.D. d		
20) Carbon Disulfide	0.000		0	N.D. d		
21) t-Butyl Alcohol	0.000		0	N.D. d		
22) n-Hexane	0.000		0	N.D. d		
23) Di-isopropyl-ether	0.000		0	N.D. d		
24) 1,1-Dichloroethene	0.000		0	N.D. d		
25) Methyl Acetate	0.000		0	N.D. d		
26) Methyl-t-butyl ether	3.439	73	4282	0.5166	ug/l	60
27) 1,1-Dichloroethane	0.000		0	N.D. d		
28) trans-1,2-Dichloroethene	0.000		0	N.D. d		
29) Ethyl-t-butyl ether	0.000		0	N.D. d		
30) cis-1,2-Dichloroethene	0.000		0	N.D. d		
31) Bromochloromethane	0.000		0	N.D. d		
32) 2,2-Dichloropropane	0.000		0	N.D. d		
33) Ethyl acetate	0.000		0	N.D. d		
34) 1,4-Dioxane	0.000		0	N.D. d		
35) 1,1-Dichloropropene	0.000		0	N.D. d		
36) Chloroform	0.000		0	N.D. d		
38) Cyclohexane	0.000		0	N.D. d		
40) 1,2-Dichloroethane	4.785	62	2288	0.4212	ug/l	78
41) 2-Butanone	0.000		0	N.D. d		
42) 1,1,1-Trichloroethane	0.000		0	N.D. d		
43) Carbon Tetrachloride	0.000		0	N.D. d		
44) Vinyl Acetate	0.000		0	N.D. d		
45) Bromodichloromethane	0.000		0	N.D. d		
46) Methylcyclohexane	0.000		0	N.D. d		
47) Dibromomethane	0.000		0	N.D. d		
48) 1,2-Dichloropropane	0.000		0	N.D. d		
49) Trichloroethene	0.000		0	N.D. d		
50) Benzene	4.779	78	5613	0.5846	ug/l	100
51) tert-Amyl methyl ether	0.000		0	N.D. d		
53) Iso-propylacetate	0.000		0	N.D. d		
54) Methyl methacrylate	0.000		0	N.D. d		
55) Dibromochloromethane	0.000		0	N.D. d		
56) 2-Chloroethylvinylether	0.000		0	N.D. d		
57) cis-1,3-Dichloropropene	0.000		0	N.D. d		
58) trans-1,3-Dichloropropene	0.000		0	N.D. d		
59) Ethyl methacrylate	0.000		0	N.D. d		
60) 1,1,2-Trichloroethane	0.000		0	N.D. d		
61) 1,2-Dibromoethane	0.000		0	N.D. d		
62) 1,3-Dichloropropane	0.000		0	N.D. d		
63) 4-Methyl-2-Pentanone	0.000		0	N.D. d		
64) 2-Hexanone	0.000		0	N.D. d		
65) Tetrachloroethene	0.000		0	N.D. d		
67) Toluene	0.000		0	N.D. d		

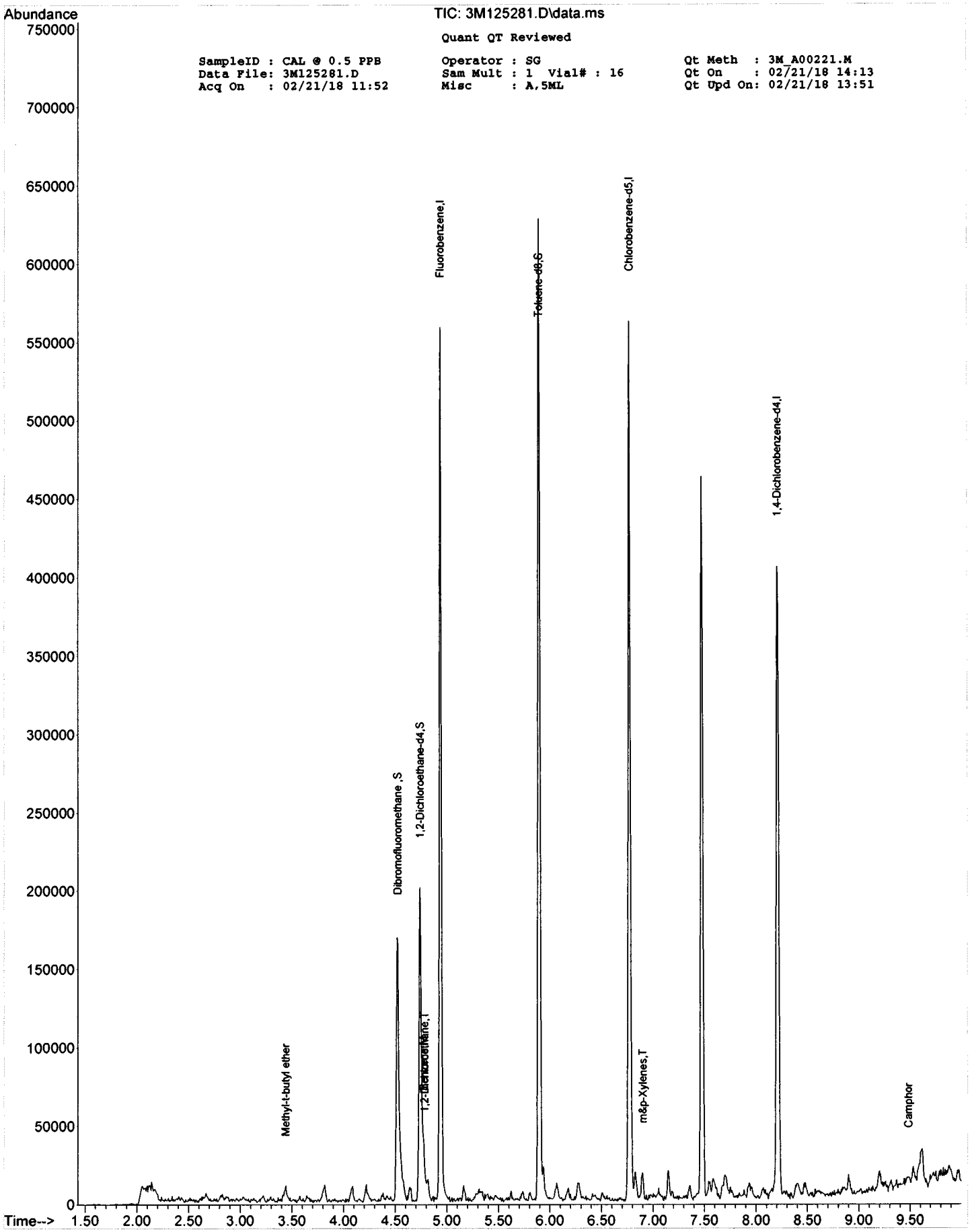
Quantitation Report (QT Reviewed)

SampleID : CAL @ 0.5 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125281.D Sam Mult : 1 Vial# : 16 Qt On : 02/21/18 14:13
Acq On : 02/21/18 11:52 Misc : A,5ML Qt Upd On: 02/21/18 13:51

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	0.000		0	N.D. d		
69)	Chlorobenzene	0.000		0	N.D. d		
71)	n-Butyl acrylate	0.000		0	N.D. d		
72)	n-Amyl acetate	0.000		0	N.D. d		
73)	Bromoform	0.000		0	N.D. d		
74)	Ethylbenzene	0.000		0	N.D. d		
75)	1,1,2,2-Tetrachloroethane	0.000		0	N.D. d		
77)	Styrene	0.000		0	N.D. d		
78)	m&p-Xylenes	6.899	106	3577	1.4882	ug/l	69
79)	o-Xylene	0.000		0	N.D. d		
80)	trans-1,4-Dichloro-2-b...	0.000		0	N.D. d		
81)	1,3-Dichlorobenzene	0.000		0	N.D. d		
82)	1,4-Dichlorobenzene	0.000		0	N.D. d		
83)	1,2-Dichlorobenzene	0.000		0	N.D. d		
84)	Isopropylbenzene	0.000		0	N.D. d		
85)	Cyclohexanone	0.000		0	N.D. d		
86)	Camphene	0.000		0	N.D. d		
87)	1,2,3-Trichloropropane	0.000		0	N.D. d		
88)	2-Chlorotoluene	0.000		0	N.D. d		
89)	p-Ethyltoluene	0.000		0	N.D. d		
90)	4-Chlorotoluene	0.000		0	N.D. d		
91)	n-Propylbenzene	0.000		0	N.D. d		
92)	Bromobenzene	0.000		0	N.D. d		
93)	1,3,5-Trimethylbenzene	0.000		0	N.D. d		
94)	Butyl methacrylate	0.000		0	N.D. d		
95)	t-Butylbenzene	0.000		0	N.D. d		
96)	1,2,4-Trimethylbenzene	0.000		0	N.D. d		
97)	sec-Butylbenzene	0.000		0	N.D. d		
98)	4-Isopropyltoluene	0.000		0	N.D. d		
99)	n-Butylbenzene	0.000		0	N.D. d		
100)	p-Diethylbenzene	0.000		0	N.D. d		
101)	1,2,4,5-Tetramethylben...	0.000		0	N.D. d		
102)	1,2-Dibromo-3-Chloropr...	0.000		0	N.D. d		
103)	Camphor	9.482	95	724m	2.9609	ug/l	
104)	Hexachlorobutadiene	0.000		0	N.D. d		
105)	1,2,4-Trichlorobenzene	0.000		0	N.D. d		
106)	1,2,3-Trichlorobenzene	0.000		0	N.D. d		
107)	Naphthalene	0.000		0	N.D. d		

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125281.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 0.5 PPB
Data File: 3M125281.D
Acq On : 02/21/18 11:52
Operator : SG
Sam Mult : 1 Vial# : 16
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 02/21/18 14:13
Qt Upd On: 02/21/18 13:51
Methyl-t-butyl ether
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
m&p-Xylenes,T
1,4-Dichlorobenzene-d4,I
Camphor
Time-->

TxtDfile: 3M125287.D ICV FORM Date/Time: 02/21/18 13:32 8022605 0088

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
Chlorodifluoromethane	1	0		18.7818	20	94		70	130
Dichlorodifluoromethane	1	0		20.3715	20	102		50	150
Chloromethane	1	0		19.7322	20	99		70	130
Bromomethane	1	0		16.6585	20	83		70	130
Vinyl Chloride	1	0		18.8367	20	94		70	130
Chloroethane	1	0		21.3067	20	107		70	130
Trichlorofluoromethane	1	0		20.2229	20	101		70	130
Ethyl ether	1	0		19.93	20	100		70	130
Furan	1	0		18.4322	20	92		70	130
1.1.2-Trichloro-1.2.2-trifluoroethane	1	0		19.2145	20	96		70	130
Methylene Chloride	1	0		17.3273	20	87		70	130
Acrolein	1	0		101.9203	100	102		50	150
Acrylonitrile	1	0		18.9654	20	95		50	150
Iodomethane	1	0		20.0637	20	100		70	130
Acetone	1	0		95.4396	100	95		50	150
Carbon Disulfide	1	0		19.1008	20	96		70	130
t-Butyl Alcohol	1	0		94.474	100	94		50	150
n-Hexane	1	0		16.4271	20	82		70	130
Di-isopropyl-ether	1	0		18.2427	20	91		70	130
1.1-Dichloroethene	1	0		19.0545	20	95		70	130
Methyl Acetate	1	0		17.9654	20	90		70	130
Methyl-t-butyl ether	1	0		18.8015	20	94		70	130
1.1-Dichloroethane	1	0		18.2065	20	91		70	130
trans-1.2-Dichloroethene	1	0		19.2966	20	96		70	130
Ethyl-t-butyl ether	1	0		19.3944	20	97		70	130
cis-1.2-Dichloroethene	1	0		19.8813	20	99		70	130
Bromochloromethane	1	0		16.5101	20	83		70	130
2.2-Dichloropropane	1	0		18.6932	20	93		70	130
Ethyl acetate	1	0		19.8225	20	99		70	130
1.4-Dioxane	1	0		857.8303	1000	86		70	130
1.1-Dichloropropene	1	0		19.2887	20	96		70	130
Chloroform	1	0		19.5529	20	98		70	130
Cyclohexane	1	0		19.4991	20	97		70	130
1.2-Dichloroethane	1	0		20.5252	20	103		70	130
2-Butanone	1	0		16.1811	20	81		70	130
1.1.1-Trichloroethane	1	0		18.7918	20	94		70	130
Carbon Tetrachloride	1	0		20.3829	20	102		70	130
Vinyl Acetate	1	0		19.7281	20	99		70	130
Bromodichloromethane	1	0		19.6449	20	98		70	130
Methylcyclohexane	1	0		18.1017	20	91		70	130
Dibromomethane	1	0		18.4698	20	92		70	130
1.2-Dichloropropane	1	0		18.931	20	95		70	130
Trichloroethene	1	0		19.4607	20	97		70	130
Benzene	1	0		19.1636	20	96		70	130
Iso-propylacetate	1	0		19.1403	20	96		70	130
Methyl methacrylate	1	0		18.0926	20	90		70	130
Dibromochloromethane	1	0		20.5777	20	103		70	130
2-Chloroethylvinylether	1	0		19.0681	20	95		70	130
cis-1.3-Dichloropropene	1	0		21.2857	20	106		70	130
trans-1.3-Dichloropropene	1	0		20.9368	20	105		70	130
Ethyl methacrylate	1	0		19.5488	20	98		70	130
1.1.2-Trichloroethane	1	0		18.6707	20	93		70	130
1.2-Dibromoethane	1	0		18.9116	20	95		70	130
1.3-Dichloropropane	1	0		19.6716	20	98		70	130
4-Methyl-2-Pentanone	1	0		17.7073	20	89		70	130
2-Hexanone	1	0		18.7155	20	94		70	130
Tetrachloroethene	1	0		21.4225	20	107		70	130
Toluene	1	0		18.6304	20	93		70	130
1.1.1.2-Tetrachloroethane	1	0		21.5821	20	108		70	130
Chlorobenzene	1	0		19.2385	20	96		70	130
n-Butyl acrylate	1	0		18.8559	20	94		70	130
n-Amyl acetate	1	0		17.7098	20	89		70	130
Bromoform	1	0		19.789	20	99		70	130
Ethylbenzene	1	0		18.7701	20	94		70	130
1.1.2.2-Tetrachloroethane	1	0		17.2103	20	86		70	130
Styrene	1	0		20.1312	20	101		70	130
m&p-Xylenes	1	0		37.8414	40	95		70	130
o-Xylene	1	0		19.1134	20	96		70	130
trans-1.4-Dichloro-2-butene	1	0		21.2284	20	106		70	130
1.3-Dichlorobenzene	1	0		20.4867	20	102		70	130
1.4-Dichlorobenzene	1	0		19.8895	20	99		70	130
1.2-Dichlorobenzene	1	0		19.2622	20	96		70	130
Isopropylbenzene	1	0		19.012	20	95		70	130
1.2.3-Trichloropropane	1	0		19.2065	20	96		70	130
2-Chlorotoluene	1	0		19.138	20	96		70	130
4-Chlorotoluene	1	0		18.781	20	94		70	130
n-Propylbenzene	1	0		19.4915	20	97		70	130
Bromobenzene	1	0		17.6529	20	88		70	130
1.3.5-Trimethylbenzene	1	0		21.2682	20	106		70	130
Butyl methacrylate	1	0		19.6094	20	98		70	130
t-Butylbenzene	1	0		19.7334	20	99		70	130
1.2.4-Trimethylbenzene	1	0		19.3883	20	97		70	130
sec-Butylbenzene	1	0		19.4945	20	97		70	130
4-Isopropyltoluene	1	0		18.7985	20	94		70	130
n-Butylbenzene	1	0		19.4069	20	97		70	130
1.2-Dibromo-3-Chloropropane	1	0		15.3878	20	77		70	130
Hexachlorobutadiene	1	0		16.2468	20	81		70	130
1.2.4-Trichlorobenzene	1	0		19.2857	20	96		70	130
1.2.3-Trichlorobenzene	1	0		19.6162	20	98		70	130
Naphthalene	1	0		19.7785	20	99		70	130

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 3M125736.D **Instrument:** GCMS 3

Cont Calibration Date/Time 3/1/2018 7:34:00 A Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	4.96	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.61	17.20	20	20	0.1	0.427	0.367	14.01	
Dichlorodifluoromethane	1	0		1.59	88.56	20	20	0.1	0.063	0.281	342.82	C1
Chloromethane	1	0		1.76	38.05	20	20	0.1	0.142	0.270	90.24	C1
Bromomethane	1	0		2.12	21.30	20	20	0.1	0.110	0.123	6.51	
Vinyl Chloride	1	0		1.84	24.38	20	20	0.1	0.154	0.188	21.92	C1
Chloroethane	1	0		2.21	24.65	20	20	0.1	0.114	0.140	23.24	C1
Trichlorofluoromethane	1	0		2.42	22.40	20	20	0.1	0.309	0.346	11.98	
Ethyl ether	1	0		2.65	18.52	20	20	0.5	0.213	0.197	7.41	
Furan	1	0		2.68	18.01	20	20	0.5	0.515	0.464	9.96	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.84	22.59	20	20	0.1	0.121	0.137	12.94	
Methylene Chloride	1	0		3.24	18.49	20	20	0.1	0.253	0.234	7.53	
Acrolein	1	0		2.77	109.11	100	20		0.039	0.043	9.11	
Acrylonitrile	1	0		3.45	17.54	20	20		0.087	0.076	12.32	
Iodomethane	1	0		2.98	22.08	20	20		0.259	0.286	10.41	
Acetone	1	0		2.89	87.94	100	20	0.1	0.090	0.079	12.06	
Carbon Disulfide	1	0		3.05	19.15	20	20	0.1	0.513	0.492	4.27	
t-Butyl Alcohol	1	0		3.31	91.73	100	20		0.028	0.026	8.27	
n-Hexane	1	0		3.67	19.83	20	20		0.101	0.100	0.84	
Di-isopropyl-ether	1	0		3.83	17.98	20	20		0.808	0.726	10.09	
1,1-Dichloroethene	1	0		2.84	18.97	20	20	0.1	0.344	0.326	5.13	
Methyl Acetate	1	0		3.14	16.21	20	20	0.1	0.348	0.282	18.94	
Methyl-t-butyl ether	1	0		3.45	16.59	20	20	0.1	0.734	0.608	17.06	
1,1-Dichloroethane	1	0		3.82	18.36	20	20	0.2	0.422	0.387	8.22	
trans-1,2-Dichloroethene	1	0		3.47	18.38	20	20	0.1	0.217	0.199	8.09	
Ethyl-t-butyl ether	1	0		4.09	18.64	20	20	0.5	0.864	0.805	6.81	
cis-1,2-Dichloroethene	1	0		4.23	19.63	20	20	0.1	0.440	0.432	1.85	
Bromochloromethane	1	0		4.39	20.27	20	20		0.242	0.245	1.35	
2,2-Dichloropropane	1	0		4.23	21.94	20	20		0.317	0.348	9.70	
Ethyl acetate	1	0		4.25	16.10	20	20		0.314	0.253	19.52	
1,4-Dioxane	1	0		5.40	838.22	1000	20		0.003	0.002	16.18	
1,1-Dichloropropene	1	0		4.66	18.52	20	20		0.313	0.290	7.41	
Chloroform	1	0		4.44	19.27	20	20	0.2	0.473	0.456	3.63	
Dibromofluoromethane	1	0	S	4.54	32.44	30	**		0.293	0.316	8.13	
Cyclohexane	1	0		4.59	20.27	20	20	0.1	0.173	0.175	1.34	
1,2-Dichloroethane-d4	1	0	S	4.76	30.79	30	**		0.205	0.210	2.65	
1,2-Dichloroethane	1	0		4.80	19.67	20	20	0.1	0.465	0.457	1.67	
2-Butanone	1	0		4.24	19.01	20	20	0.1	0.121	0.115	4.97	
1,1,1-Trichloroethane	1	0		4.56	20.37	20	20	0.1	0.397	0.404	1.87	
Carbon Tetrachloride	1	0		4.66	21.41	20	20	0.1	0.283	0.303	7.04	
Vinyl Acetate	1	0		3.83	19.74	20	20		0.545	0.538	1.30	
Bromodichloromethane	1	0		5.48	19.85	20	20	0.2	0.346	0.343	0.74	
Methylcyclohexane	1	0		5.30	18.84	20	20	0.1	0.136	0.128	5.80	
Dibromomethane	1	0		5.41	19.42	20	20		0.209	0.203	2.90	
1,2-Dichloropropane	1	0		5.33	18.12	20	20	0.1	0.224	0.203	9.40	
Trichloroethene	1	0		5.18	19.70	20	20	0.2	0.251	0.248	1.52	
Benzene	1	0		4.80	18.87	20	20	0.5	0.854	0.805	5.67	
tert-Amyl methyl ether	1	0		4.83	18.81	20	20		0.768	0.723	5.93	
Chlorobenzene-d5	1	0	I	6.79	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.79	15.66	20	20	0.5	0.818	0.641	21.70	C1
Methyl methacrylate	1	0		5.35	17.45	20	20	0.5	0.456	0.398	12.73	
Dibromochloromethane	1	0		6.44	19.74	20	20	0.1	0.339	0.335	1.29	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 3M125736.D **Instrument:** GCMS 3

Cont Calibration Date/Time 3/1/2018 7:34:00 A Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.64	15.98	20	20		0.219	0.175	20.08	
cis-1,3-Dichloropropene	1	0		5.74	17.95	20	20	0.2	0.490	0.440	10.25	
trans-1,3-Dichloropropene	1	0		6.07	17.94	20	20	0.1	0.492	0.441	10.32	
Ethyl methacrylate	1	0		6.08	15.56	20	20	0.5	0.451	0.350	22.22	C1
1,1,2-Trichloroethane	1	0		6.19	17.35	20	20	0.1	0.296	0.256	13.23	
1,2-Dibromoethane	1	0		6.53	17.68	20	20	0.1	0.321	0.284	11.59	
1,3-Dichloropropane	1	0		6.29	17.12	20	20		0.518	0.443	14.40	
4-Methyl-2-Pentanone	1	0		5.82	13.96	20	20	0.1	0.399	0.279	30.20	C1
2-Hexanone	1	0		6.31	14.52	20	20	0.1	0.270	0.196	27.42	C1
Tetrachloroethene	1	0		6.29	19.39	20	20	0.2	0.198	0.192	3.06	
Toluene-d8	1	0	S	5.91	28.12	30	**		1.283	1.202	6.27	
Toluene	1	0		5.96	17.00	20	20	0.4	0.689	0.586	15.02	
1,1,1,2-Tetrachloroethane	1	0		6.84	20.30	20	20		0.284	0.288	1.52	
Chlorobenzene	1	0		6.81	18.11	20	20	0.5	0.743	0.673	9.43	
1,4-Dichlorobenzene-d4	1	0	I	8.23	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.07	15.84	20	20	0.5	1.661	1.316	20.78	C1
n-Amyl acetate	1	0		7.20	17.46	20	20	0.5	1.447	1.264	12.69	
Bromoform	1	0		7.32	18.05	20	20	0.1	0.570	0.515	9.77	
Ethylbenzene	1	0		6.85	19.28	20	20	0.1	0.522	0.503	3.61	
1,1,2,2-Tetrachloroethane	1	0		7.55	17.33	20	20	0.1	0.849	0.736	13.37	
Bromofluorobenzene	1	0	S	7.50	30.74	30	**		1.103	1.130	2.46	
Styrene	1	0		7.17	18.72	20	20	0.3	1.703	1.594	6.40	
m&p-Xylenes	1	0		6.92	36.71	40	20	0.1	0.876	0.804	8.24	
o-Xylene	1	0		7.16	18.43	20	20	0.3	0.885	0.816	7.86	
trans-1,4-Dichloro-2-butene	1	0		7.59	17.26	20	20		0.358	0.309	13.70	
1,3-Dichlorobenzene	1	0		8.20	18.46	20	20	0.6	0.995	0.919	7.69	
1,4-Dichlorobenzene	1	0		8.24	19.28	20	20	0.5	1.036	0.998	3.62	
1,2-Dichlorobenzene	1	0		8.50	18.68	20	20	0.4	1.043	0.974	6.62	
Isopropylbenzene	1	0		7.38	19.29	20	20	0.1	1.777	1.714	3.56	
Cyclohexanone	1	0		7.48	149.59	100	20		0.034	0.050	49.59	C1
Camphene	1	0		7.57	18.52	20	20		0.553	0.512	7.40	
1,2,3-Trichloropropane	1	0		7.60	17.71	20	20		1.094	0.968	11.47	
2-Chlorotoluene	1	0		7.72	18.77	20	20		1.074	1.008	6.13	
p-Ethyltoluene	1	0		7.70	18.30	20	20		1.813	1.659	8.48	
4-Chlorotoluene	1	0		7.78	18.12	20	20		1.135	1.029	9.41	
n-Propylbenzene	1	0		7.63	18.49	20	20		1.773	1.639	7.53	
Bromobenzene	1	0		7.61	18.29	20	20		1.752	1.602	8.54	
1,3,5-Trimethylbenzene	1	0		7.73	19.49	20	20		1.146	1.116	2.54	
Butyl methacrylate	1	0		7.73	18.23	20	20	0.5	1.220	1.112	8.85	
t-Butylbenzene	1	0		7.95	19.42	20	20		1.234	1.198	2.91	
1,2,4-Trimethylbenzene	1	0		7.97	18.87	20	20		1.547	1.459	5.64	
sec-Butylbenzene	1	0		8.08	19.13	20	20		1.368	1.309	4.33	
4-Isopropyltoluene	1	0		8.16	19.94	20	20		1.218	1.214	0.29	
n-Butylbenzene	1	0		8.43	18.15	20	20		1.325	1.203	9.25	
p-Diethylbenzene	1	0		8.41	17.45	20	20		0.814	0.710	12.75	
1,2,4,5-Tetramethylbenzene	1	0		8.92	17.43	20	20		1.222	1.065	12.84	
1,2-Dibromo-3-Chloropropane	1	0		9.01	13.87	20	20	0.05	0.168	0.146	30.64	C1
Camphor	1	0		9.51	142.95	200	20		0.078	0.066	28.53	C1
Hexachlorobutadiene	1	0		9.64	17.15	20	20		0.473	0.406	14.26	
1,2,4-Trichlorobenzene	1	0		9.55	16.60	20	20	0.2	0.555	0.473	16.99	
1,2,3-Trichlorobenzene	1	0		9.90	17.23	20	20		0.494	0.426	13.85	
Naphthalene	1	0		9.74	17.61	20	20		1.374	1.210	11.96	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

8022605 0091

SampleID : CAL @ 20 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125736.D Sam Mult : 1 Vial# : 3 Qt On : 03/01/18 07:46
Acq On : 03/ 1/18 07:34 Misc : A,5ML Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-01-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.958	96	392531	30.00	ug/l	0.02
52) Chlorobenzene-d5	6.790	117	332641	30.00	ug/l	0.02
70) 1,4-Dichlorobenzene-d4	8.232	152	140627	30.00	ug/l	0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.544	111	124209	32.44	ug/l	0.02
Spiked Amount 30.000			Recovery = 108.13%			
39) 1,2-Dichloroethane-d4	4.760	67	82621	30.79	ug/l	0.02
Spiked Amount 30.000			Recovery = 102.63%			
66) Toluene-d8	5.913	98	399960	28.12	ug/l	0.02
Spiked Amount 30.000			Recovery = 93.73%			
76) Bromofluorobenzene	7.499	174	158924	30.74	ug/l	0.02
Spiked Amount 30.000			Recovery = 102.47%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.608	51	96070	17.1988	ug/l	78
6) Dichlorodifluoromethane	1.592	85	73557	88.5638	ug/l	91
7) Chloromethane	1.758	50	70566	38.0488	ug/l	80
8) Bromomethane	2.123	94	32125	21.3020	ug/l	93
9) Vinyl Chloride	1.842	62	49116	24.3840	ug/l	85
10) Chloroethane	2.207	64	36620	24.6483	ug/l	90
11) Trichlorofluoromethane	2.417	101	90524	22.3969	ug/l	83
12) Ethyl ether	2.645	59	51595	18.5190	ug/l	75
13) Furan	2.681	39	121392	18.0087	ug/l	97
14) 1,1,2-Trichloro-1,2,2-...	2.838	101	35841	22.5888	ug/l	96
15) Methylene Chloride	3.240	84	61201	18.4939	ug/l	99
16) Acrolein	2.766	56	56287	109.1064	ug/l	98
17) Acrylonitrile	3.450	53	19992	17.5366	ug/l	87
18) Iodomethane	2.982	142	74959	22.0820	ug/l	98
19) Acetone	2.886	43	103368	87.9352	ug/l	85
20) Carbon Disulfide	3.048	76	128624	19.1452	ug/l	100
21) t-Butyl Alcohol	3.306	59	33638	91.7297	ug/l	85
22) n-Hexane	3.673	57	26207	19.8321	ug/l	79
23) Di-isopropyl-ether	3.835	45	190093	17.9814	ug/l	98
24) 1,1-Dichloroethene	2.844	61	85347	18.9748	ug/l	90
25) Methyl Acetate	3.144	43	73899	16.2126	ug/l	100
26) Methyl-t-butyl ether	3.450	73	159216	16.5879	ug/l	63
27) 1,1-Dichloroethane	3.817	63	101253	18.3557	ug/l	99
28) trans-1,2-Dichloroethene	3.468	96	52162	18.3829	ug/l	91
29) Ethyl-t-butyl ether	4.093	59	210686	18.6381	ug/l	93
30) cis-1,2-Dichloroethene	4.231	61	112938	19.6304	ug/l	83
31) Bromochloromethane	4.393	49	64224	20.2706	ug/l	92
32) 2,2-Dichloropropane	4.231	77	91057	21.9402	ug/l	99
33) Ethyl acetate	4.249	43	66127m	16.0954	ug/l	
34) 1,4-Dioxane	5.403	88	32058	838.2188	ug/l	93
35) 1,1-Dichloropropene	4.658	75	75851	18.5183	ug/l	88
36) Chloroform	4.435	83	119256	19.2736	ug/l	99
38) Cyclohexane	4.592	56	45777	20.2674	ug/l	90
40) 1,2-Dichloroethane	4.802	62	119665	19.6663	ug/l	94
41) 2-Butanone	4.237	43	30208m	19.0066	ug/l	
42) 1,1,1-Trichloroethane	4.562	97	105770	20.3738	ug/l	100
43) Carbon Tetrachloride	4.664	117	79362	21.4077	ug/l	96
44) Vinyl Acetate	3.835	43	140822	19.7397	ug/l	100
45) Bromodichloromethane	5.481	83	89860	19.8516	ug/l	91
46) Methylcyclohexane	5.300	83	33426	18.8404	ug/l	94
47) Dibromomethane	5.409	174	53019	19.4197	ug/l	88
48) 1,2-Dichloropropane	5.330	63	53155	18.1197	ug/l	92
49) Trichloroethene	5.180	130	64809	19.6969	ug/l	93
50) Benzene	4.796	78	210780	18.8654	ug/l	100
51) tert-Amyl methyl ether	4.832	73	189115	18.8143	ug/l	75
53) Iso-propylacetate	4.790	43	142059	15.6610	ug/l	97
54) Methyl methacrylate	5.355	41	88264	17.4549	ug/l	91
55) Dibromochloromethane	6.442	129	74300	19.7429	ug/l	95
56) 2-Chloroethylvinylether	5.637	63	38895	15.9835	ug/l	88
57) cis-1,3-Dichloropropene	5.745	75	97551	17.9491	ug/l	97
58) trans-1,3-Dichloropropene	6.069	75	97755	17.9361	ug/l	98
59) Ethyl methacrylate	6.081	41	77714	15.5552	ug/l	69
60) 1,1,2-Trichloroethane	6.189	97	56859	17.3536	ug/l	87
61) 1,2-Dibromoethane	6.526	107	62979	17.6829	ug/l	94
62) 1,3-Dichloropropane	6.292	76	98263	17.1191	ug/l	97
63) 4-Methyl-2-Pentanone	5.817	43	61775	13.9593	ug/l	84
64) 2-Hexanone	6.310	43	43534	14.5155	ug/l	93
65) Tetrachloroethene	6.286	164	42597	19.3878	ug/l	97
67) Toluene	5.955	92	129863	16.9952	ug/l	99

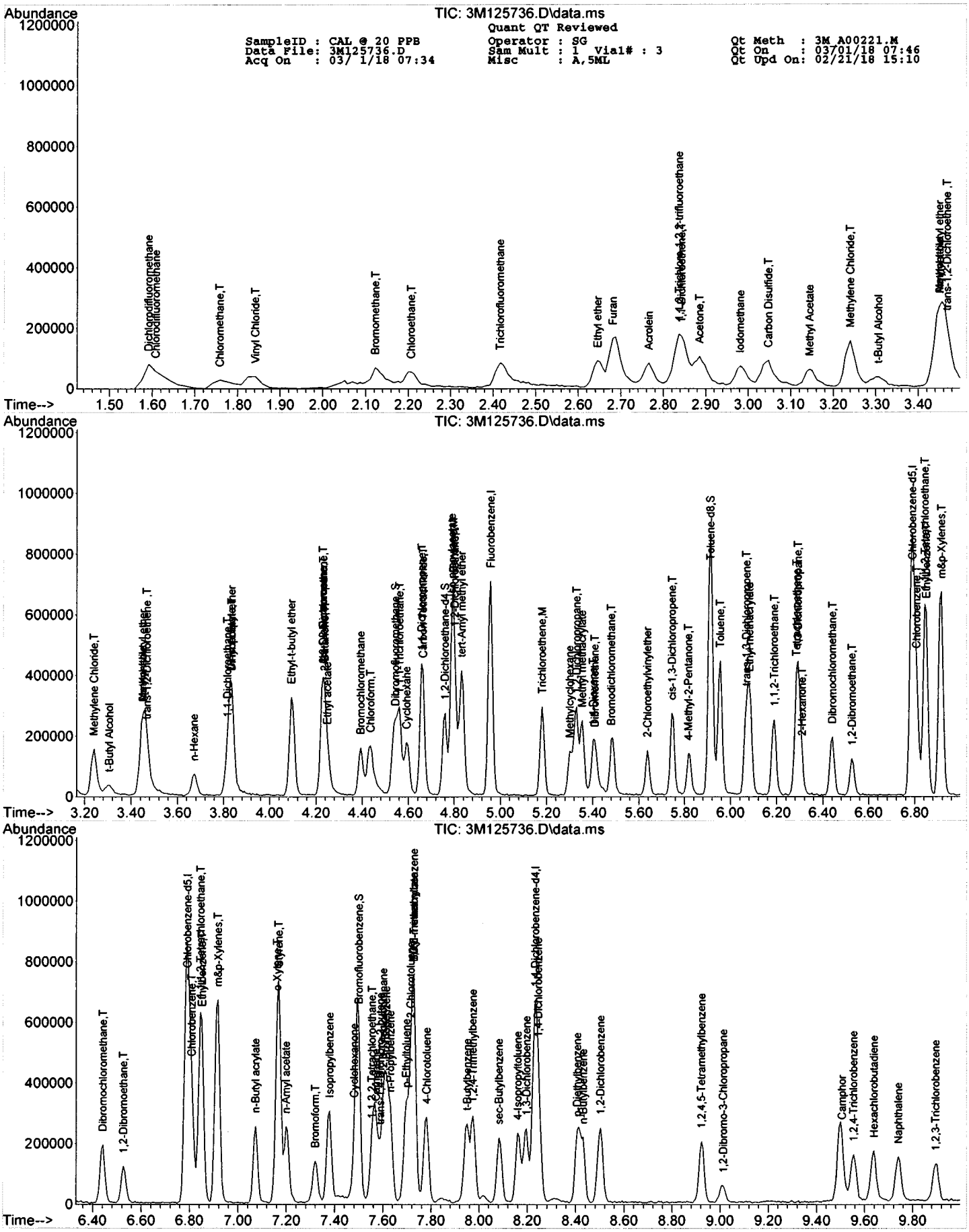
Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125736.D Sam Mult : 1 Vial# : 3 Qt On : 03/01/18 07:46
Acq On : 03/ 1/18 07:34 Misc : A,5ML Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-01-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.844	133	63910	20.3037	ug/l	81
69)	Chlorobenzene	6.808	112	149196	18.1148	ug/l	99
71)	n-Butyl acrylate	7.073	55	123384	15.8433	ug/l	93
72)	n-Amyl acetate	7.199	43	118464	17.4614	ug/l	88
73)	Bromoform	7.319	173	48251	18.0461	ug/l	97
74)	Ethylbenzene	6.850	106	47160	19.2772	ug/l	80
75)	1,1,2,2-Tetrachloroethane	7.553	83	68971	17.3260	ug/l	82
77)	Styrene	7.169	104	149399	18.7200	ug/l	99
78)	m&p-Xylenes	6.916	106	150727	36.7056	ug/l	90
79)	o-Xylene	7.163	106	76480	18.4284	ug/l	80
80)	trans-1,4-Dichloro-2-b...	7.589	53	29003	17.2609	ug/l	66
81)	1,3-Dichlorobenzene	8.196	146	86113	18.4614	ug/l	93
82)	1,4-Dichlorobenzene	8.244	146	93583	19.2759	ug/l	95
83)	1,2-Dichlorobenzene	8.502	146	91351	18.6758	ug/l	92
84)	Isopropylbenzene	7.379	105	160693	19.2885	ug/l	96
85)	Cyclohexanone	7.481	55	23655	149.5872	ug/l	97
86)	Camphene	7.571	93	48021	18.5203	ug/l	99
87)	1,2,3-Trichloropropane	7.601	75	90792	17.7063	ug/l	98
88)	2-Chlorotoluene	7.715	91	94528	18.7731	ug/l	96
89)	p-Ethyltoluene	7.697	105	155578	18.3037	ug/l	81
90)	4-Chlorotoluene	7.781	91	96432	18.1177	ug/l	92
91)	n-Propylbenzene	7.631	91	153704	18.4949	ug/l	93
92)	Bromobenzene	7.613	77	150202	18.2919	ug/l	94
93)	1,3,5-Trimethylbenzene	7.727	105	104672	19.4916	ug/l	74
94)	Butyl methacrylate	7.727	41	104283	18.2297	ug/l	85
95)	t-Butylbenzene	7.950	119	112279	19.4175	ug/l	88
96)	1,2,4-Trimethylbenzene	7.974	105	136812	18.8714	ug/l	90
97)	sec-Butylbenzene	8.082	105	122699	19.1336	ug/l	97
98)	4-Isopropyltoluene	8.160	119	113812	19.9412	ug/l	93
99)	n-Butylbenzene	8.430	91	112738	18.1502	ug/l	88
100)	p-Diethylbenzene	8.406	119	66590	17.4499	ug/l	88
101)	1,2,4,5-Tetramethylben...	8.923	119	99859	17.4312	ug/l	92
102)	1,2-Dibromo-3-Chloropr...	9.013	157	13655	13.8725	ug/l	88
103)	Camphor	9.505	95	62302	142.9489	ug/l	92
104)	Hexachlorobutadiene	9.637	225	38032	17.1480	ug/l	95
105)	1,2,4-Trichlorobenzene	9.553	180	44357	16.6019	ug/l	94
106)	1,2,3-Trichlorobenzene	9.896	180	39921	17.2306	ug/l	98
107)	Naphthalene	9.740	128	113418	17.6076	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125736.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 20 PPB
Data File: 3M125736.D
Acq On : 03/ 1/18 07:34
Operator : SG
Sam Mult : 1 Vial# : 3
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 03701/18 07:46
Qt Upd On: 02/21/18 15:10
Time-->

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 3M125820.D **Instrument:** GCMS 3

Cont Calibration Date/Time 3/2/2018 6:44:00 A Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Fluorobenzene	1	0	I	4.98	30.00	30	**			0.000	0.00	
Chlorodifluoromethane	1	0		1.61	16.71	20	20	0.1	0.427	0.357	16.45	
Dichlorodifluoromethane	1	0		1.60	78.47	20	20	0.1	0.063	0.249	292.37	C1
Chloromethane	1	0		1.76	35.96	20	20	0.1	0.142	0.255	79.78	C1
Bromomethane	1	0		2.15	16.82	20	20	0.1	0.110	0.098	15.88	
Vinyl Chloride	1	0		1.85	22.93	20	20	0.1	0.154	0.177	14.66	
Chloroethane	1	0		2.23	23.62	20	20	0.1	0.114	0.134	18.09	
Trichlorofluoromethane	1	0		2.44	17.48	20	20	0.1	0.309	0.270	12.61	
Ethyl ether	1	0		2.67	17.35	20	20	0.5	0.213	0.185	13.24	
Furan	1	0		2.71	17.51	20	20	0.5	0.515	0.451	12.43	
1,1,2-Trichloro-1,2,2-trifluoroetha	1	0		2.86	22.16	20	20	0.1	0.121	0.134	10.78	
Methylene Chloride	1	0		3.27	18.11	20	20	0.1	0.253	0.229	9.45	
Acrolein	1	0		2.79	104.25	100	20		0.039	0.041	4.25	
Acrylonitrile	1	0		3.48	19.05	20	20		0.087	0.083	4.77	
Iodomethane	1	0		3.01	20.93	20	20		0.259	0.272	4.67	
Acetone	1	0		2.91	100.86	100	20	0.1	0.090	0.091	0.86	
Carbon Disulfide	1	0		3.07	18.10	20	20	0.1	0.513	0.465	9.48	
t-Butyl Alcohol	1	0		3.33	85.80	100	20		0.028	0.024	14.20	
n-Hexane	1	0		3.70	18.36	20	20		0.101	0.093	8.21	
Di-isopropyl-ether	1	0		3.86	18.54	20	20		0.808	0.749	7.31	
1,1-Dichloroethene	1	0		2.87	18.58	20	20	0.1	0.344	0.319	7.11	
Methyl Acetate	1	0		3.17	16.84	20	20	0.1	0.348	0.293	15.80	
Methyl-t-butyl ether	1	0		3.48	16.85	20	20	0.1	0.734	0.618	15.74	
1,1-Dichloroethane	1	0		3.85	18.32	20	20	0.2	0.422	0.386	8.39	
trans-1,2-Dichloroethene	1	0		3.49	19.31	20	20	0.1	0.217	0.209	3.47	
Ethyl-t-butyl ether	1	0		4.12	18.25	20	20	0.5	0.864	0.788	8.74	
cis-1,2-Dichloroethene	1	0		4.26	19.07	20	20	0.1	0.440	0.419	4.66	
Bromochloromethane	1	0		4.42	20.83	20	20		0.242	0.252	4.15	
2,2-Dichloropropane	1	0		4.26	21.48	20	20		0.317	0.341	7.38	
Ethyl acetate	1	0		4.27	18.08	20	20		0.314	0.284	9.61	
1,4-Dioxane	1	0		5.43	933.90	1000	20		0.003	0.003	6.61	
1,1-Dichloropropene	1	0		4.68	18.56	20	20		0.313	0.291	7.20	
Chloroform	1	0		4.45	18.92	20	20	0.2	0.473	0.447	5.39	
Dibromofluoromethane	1	0	S	4.56	29.65	30	**		0.293	0.289	1.16	
Cyclohexane	1	0		4.62	21.85	20	20	0.1	0.173	0.189	9.25	
1,2-Dichloroethane-d4	1	0	S	4.78	29.82	30	**		0.205	0.204	0.61	
1,2-Dichloroethane	1	0		4.83	18.18	20	20	0.1	0.465	0.423	9.10	
2-Butanone	1	0		4.26	18.90	20	20	0.1	0.121	0.115	5.52	
1,1,1-Trichloroethane	1	0		4.59	19.20	20	20	0.1	0.397	0.381	3.98	
Carbon Tetrachloride	1	0		4.69	20.06	20	20	0.1	0.283	0.284	0.29	
Vinyl Acetate	1	0		3.86	19.96	20	20		0.545	0.544	0.22	
Bromodichloromethane	1	0		5.51	18.13	20	20	0.2	0.346	0.314	9.37	
Methylcyclohexane	1	0		5.33	22.58	20	20	0.1	0.136	0.153	12.88	
Dibromomethane	1	0		5.44	19.06	20	20		0.209	0.199	4.72	
1,2-Dichloropropane	1	0		5.36	19.18	20	20	0.1	0.224	0.215	4.12	
Trichloroethene	1	0		5.21	20.10	20	20	0.2	0.251	0.253	0.49	
Benzene	1	0		4.82	18.69	20	20	0.5	0.854	0.798	6.56	
tert-Amyl methyl ether	1	0		4.86	19.01	20	20		0.768	0.730	4.97	
Chlorobenzene-d5	1	0	I	6.81	30.00	30	**			0.000	0.00	
Iso-propylacetate	1	0		4.81	16.62	20	20	0.5	0.818	0.680	16.89	
Methyl methacrylate	1	0		5.38	30.37	20	20	0.5	0.456	0.692	51.84	C1
Dibromochloromethane	1	0		6.47	17.84	20	20	0.1	0.339	0.303	10.78	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL @ 20 PPB **Data File:** 3M125820.D **Instrument:** GCMS 3

Cont Calibration Date/Time 3/2/2018 6:44:00 A Method: EPA 8260C

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2-Chloroethylvinylether	1	0		5.67	16.16	20	20		0.219	0.177	19.21	
cis-1,3-Dichloropropene	1	0		5.78	17.38	20	20	0.2	0.490	0.426	13.11	
trans-1,3-Dichloropropene	1	0		6.09	16.75	20	20	0.1	0.492	0.412	16.27	
Ethyl methacrylate	1	0		6.11	16.90	20	20	0.5	0.451	0.381	15.49	
1,1,2-Trichloroethane	1	0		6.21	17.72	20	20	0.1	0.296	0.262	11.41	
1,2-Dibromoethane	1	0		6.56	17.04	20	20	0.1	0.321	0.274	14.80	
1,3-Dichloropropane	1	0		6.32	17.30	20	20		0.518	0.448	13.52	
4-Methyl-2-Pentanone	1	0		5.85	15.66	20	20	0.1	0.399	0.312	21.70	C1
2-Hexanone	1	0		6.33	17.47	20	20	0.1	0.270	0.236	12.63	
Tetrachloroethene	1	0		6.31	19.41	20	20	0.2	0.198	0.192	2.93	
Toluene-d8	1	0	S	5.94	28.54	30	**		1.283	1.220	4.88	
Toluene	1	0		5.98	17.52	20	20	0.4	0.689	0.604	12.39	
1,1,1,2-Tetrachloroethane	1	0		6.87	18.74	20	20		0.284	0.266	6.30	
Chlorobenzene	1	0		6.84	18.21	20	20	0.5	0.743	0.676	8.97	
1,4-Dichlorobenzene-d4	1	0	I	8.26	30.00	30	**			0.000	0.00	
n-Butyl acrylate	1	0		7.10	17.09	20	20	0.5	1.661	1.420	14.54	
n-Amyl acetate	1	0		7.23	17.65	20	20	0.5	1.447	1.278	11.73	
Bromoform	1	0		7.35	15.76	20	20	0.1	0.570	0.449	21.20	C1
Ethylbenzene	1	0		6.88	18.30	20	20	0.1	0.522	0.478	8.50	
1,1,2,2-Tetrachloroethane	1	0		7.58	16.65	20	20	0.1	0.849	0.707	16.75	
Bromofluorobenzene	1	0	S	7.52	29.42	30	**		1.103	1.082	1.94	
Styrene	1	0		7.20	18.92	20	20	0.3	1.703	1.610	5.41	
m&p-Xylenes	1	0		6.94	37.43	40	20	0.1	0.876	0.820	6.43	
o-Xylene	1	0		7.19	19.93	20	20	0.3	0.885	0.882	0.36	
trans-1,4-Dichloro-2-butene	1	0		7.62	17.44	20	20		0.358	0.313	12.81	
1,3-Dichlorobenzene	1	0		8.23	19.61	20	20	0.6	0.995	0.976	1.96	
1,4-Dichlorobenzene	1	0		8.27	20.10	20	20	0.5	1.036	1.041	0.52	
1,2-Dichlorobenzene	1	0		8.53	18.61	20	20	0.4	1.043	0.971	6.93	
Isopropylbenzene	1	0		7.40	19.61	20	20	0.1	1.777	1.742	1.97	
Cyclohexanone	1	0		7.51	236.91	100	20		0.034	0.080	136.91	C1
Camphene	1	0		7.60	18.44	20	20		0.553	0.510	7.79	
1,2,3-Trichloropropane	1	0		7.63	17.75	20	20		1.094	0.971	11.23	
2-Chlorotoluene	1	0		7.75	17.96	20	20		1.074	0.965	10.20	
p-Ethyltoluene	1	0		7.73	19.06	20	20		1.813	1.728	4.69	
4-Chlorotoluene	1	0		7.81	17.95	20	20		1.135	1.019	10.24	
n-Propylbenzene	1	0		7.66	19.66	20	20		1.773	1.743	1.68	
Bromobenzene	1	0		7.64	18.31	20	20		1.752	1.604	8.45	
1,3,5-Trimethylbenzene	1	0		7.76	23.98	20	20		1.146	1.373	19.88	
Butyl methacrylate	1	0		7.76	18.43	20	20	0.5	1.220	1.125	7.83	
t-Butylbenzene	1	0		7.97	20.35	20	20		1.234	1.255	1.75	
1,2,4-Trimethylbenzene	1	0		8.00	19.73	20	20		1.547	1.526	1.34	
sec-Butylbenzene	1	0		8.11	19.48	20	20		1.368	1.332	2.60	
4-Isopropyltoluene	1	0		8.19	20.98	20	20		1.218	1.277	4.88	
n-Butylbenzene	1	0		8.46	18.94	20	20		1.325	1.255	5.29	
p-Diethylbenzene	1	0		8.44	19.73	20	20		0.814	0.803	1.35	
1,2,4,5-Tetramethylbenzene	1	0		8.95	19.54	20	20		1.222	1.194	2.30	
1,2-Dibromo-3-Chloropropane	1	0		9.04	12.60	20	20	0.05	0.168	0.132	37.01	C1
Camphor	1	0		9.53	149.71	200	20		0.078	0.070	25.15	C1
Hexachlorobutadiene	1	0		9.67	16.21	20	20		0.473	0.383	18.96	
1,2,4-Trichlorobenzene	1	0		9.59	18.24	20	20	0.2	0.555	0.519	8.82	
1,2,3-Trichlorobenzene	1	0		9.93	17.37	20	20		0.494	0.429	13.15	
Naphthalene	1	0		9.78	18.21	20	20		1.374	1.251	8.94	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Quantitation Report (QT Reviewed)

8022605 0096

SampleID : CAL @ 20 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125820.D Sam Mult : 1 Vial# : 3 Qt On : 03/02/18 07:20
Acq On : 03/ 2/18 06:44 Misc : A,5ML Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-02-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.983	96	460203	30.00	ug/l	0.04
52) Chlorobenzene-d5	6.815	117	396359	30.00	ug/l	0.04
70) 1,4-Dichlorobenzene-d4	8.263	152	167612	30.00	ug/l	0.05
System Monitoring Compounds						
37) Dibromofluoromethane	4.562	111	133114	29.65	ug/l	0.04
Spiked Amount 30.000			Recovery = 98.83%			
39) 1,2-Dichloroethane-d4	4.785	67	93793	29.82	ug/l	0.04
Spiked Amount 30.000			Recovery = 99.40%			
66) Toluene-d8	5.938	98	483653	28.54	ug/l	0.04
Spiked Amount 30.000			Recovery = 95.13%			
76) Bromofluorobenzene	7.524	174	181297	29.42	ug/l	0.05
Spiked Amount 30.000			Recovery = 98.07%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.614	51	109429	16.7097	ug/l	87
6) Dichlorodifluoromethane	1.598	85	76414	78.4747	ug/l	92
7) Chloromethane	1.764	50	78179	35.9550	ug/l	80
8) Bromomethane	2.148	94	30131	16.8235	ug/l	69
9) Vinyl Chloride	1.847	62	54156	22.9326	ug/l	95
10) Chloroethane	2.226	64	41137	23.6171	ug/l	86
11) Trichlorofluoromethane	2.442	101	82825	17.4788	ug/l	81
12) Ethyl ether	2.670	59	56677	17.3517	ug/l	63
13) Furan	2.706	39	138403	17.5131	ug/l	95
14) 1,1,2-Trichloro-1,2,2-...	2.856	101	41215	22.1561	ug/l	97
15) Methylene Chloride	3.271	84	70260	18.1093	ug/l	98
16) Acrolein	2.790	56	63052	104.2475	ug/l	98
17) Acrylonitrile	3.475	53	25457	19.0467	ug/l	86
18) Iodomethane	3.007	142	83313	20.9340	ug/l	96
19) Acetone	2.910	43	138997	100.8572	ug/l	89
20) Carbon Disulfide	3.073	76	142600	18.1043	ug/l	100
21) t-Butyl Alcohol	3.331	59	36887	85.7981	ug/l	71
22) n-Hexane	3.703	57	28442m	18.3585	ug/l	
23) Di-isopropyl-ether	3.859	45	229751	18.5370	ug/l	93
24) 1,1-Dichloroethene	2.868	61	97968	18.5779	ug/l	97
25) Methyl Acetate	3.169	43	89993	16.8402	ug/l	100
26) Methyl-t-butyl ether	3.481	73	189641	16.8524	ug/l	65
27) 1,1-Dichloroethane	3.847	63	118490	18.3218	ug/l	93
28) trans-1,2-Dichloroethene	3.493	96	64228	19.3068	ug/l	84
29) Ethyl-t-butyl ether	4.124	59	241889	18.2519	ug/l	95
30) cis-1,2-Dichloroethene	4.256	61	128612	19.0676	ug/l	86
31) Bromochloromethane	4.418	49	77374	20.8300	ug/l	95
32) 2,2-Dichloropropane	4.256	77	104499	21.4765	ug/l	88
33) Ethyl acetate	4.274	43	87079m	18.0784	ug/l	
34) 1,4-Dioxane	5.427	88	41875	933.8998	ug/l	86
35) 1,1-Dichloropropene	4.682	75	89129	18.5602	ug/l	95
36) Chloroform	4.454	83	137272	18.9229	ug/l	73
38) Cyclohexane	4.622	56	57857	21.8490	ug/l	95
40) 1,2-Dichloroethane	4.833	62	129693	18.1802	ug/l	99
41) 2-Butanone	4.262	43	35208m	18.8950	ug/l	
42) 1,1,1-Trichloroethane	4.586	97	116890	19.2048	ug/l	95
43) Carbon Tetrachloride	4.688	117	87176	20.0576	ug/l	93
44) Vinyl Acetate	3.859	43	166902	19.9552	ug/l	100
45) Bromodichloromethane	5.511	83	96198	18.1267	ug/l	96
46) Methylcyclohexane	5.331	83	46958	22.5756	ug/l	88
47) Dibromomethane	5.439	174	60992	19.0550	ug/l	95
48) 1,2-Dichloropropane	5.355	63	65949	19.1752	ug/l	88
49) Trichloroethene	5.205	130	77532	20.0987	ug/l	82
50) Benzene	4.821	78	244796	18.6881	ug/l	100
51) tert-Amyl methyl ether	4.857	73	223986	19.0067	ug/l	73
53) Iso-propylacetate	4.815	43	179665	16.6227	ug/l	99
54) Methyl methacrylate	5.379	41	182976	30.3679	ug/l	73
55) Dibromochloromethane	6.467	129	80014	17.8433	ug/l	95
56) 2-Chloroethylvinylether	5.668	63	46854	16.1589	ug/l	92
57) cis-1,3-Dichloropropene	5.776	75	112542	17.3785	ug/l	92
58) trans-1,3-Dichloropropene	6.094	75	108749	16.7456	ug/l	99
59) Ethyl methacrylate	6.112	41	100616	16.9017	ug/l	77
60) 1,1,2-Trichloroethane	6.214	97	69176	17.7188	ug/l	91
61) 1,2-Dibromoethane	6.557	107	72317	17.0406	ug/l	88
62) 1,3-Dichloropropane	6.322	76	118300	17.2966	ug/l	99
63) 4-Methyl-2-Pentanone	5.848	43	82574	15.6597	ug/l	91
64) 2-Hexanone	6.334	43	62449	17.4749	ug/l	85
65) Tetrachloroethene	6.310	164	50824	19.4135	ug/l	97
67) Toluene	5.980	92	159540	17.5226	ug/l	96

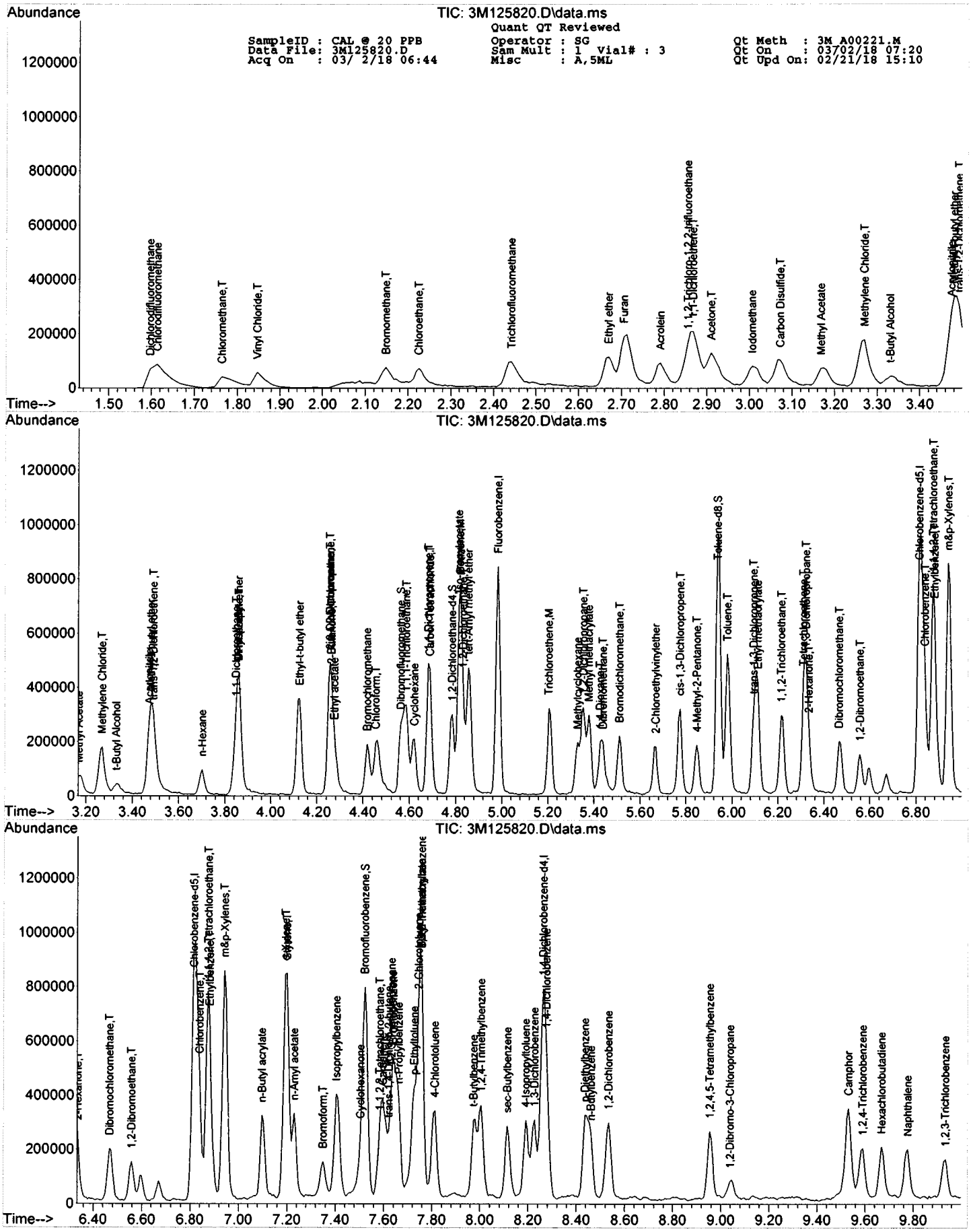
Quantitation Report (QT Reviewed)

SampleID : CAL @ 20 PPB Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125820.D Sam Mult : 1 Vial# : 3 Qt On : 03/02/18 07:20
Acq On : 03/ 2/18 06:44 Misc : A,5ML Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-02-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	1,1,1,2-Tetrachloroethane	6.875	133	70289	18.7405	ug/l	81
69)	Chlorobenzene	6.839	112	178661	18.2051	ug/l	92
71)	n-Butyl acrylate	7.097	55	158649	17.0919	ug/l	94
72)	n-Amyl acetate	7.229	43	142752	17.6538	ug/l	81
73)	Bromoform	7.350	173	50225	15.7601	ug/l	86
74)	Ethylbenzene	6.881	106	53360	18.2999	ug/l	73
75)	1,1,2,2-Tetrachloroethane	7.584	83	78999	16.6501	ug/l	87
77)	Styrene	7.199	104	179947	18.9177	ug/l	92
78)	m&p-Xylenes	6.941	106	183191	37.4291	ug/l	89
79)	o-Xylene	7.193	106	98572	19.9276	ug/l	83
80)	trans-1,4-Dichloro-2-b...	7.620	53	34924	17.4384	ug/l	71
81)	1,3-Dichlorobenzene	8.227	146	109014	19.6084	ug/l	88
82)	1,4-Dichlorobenzene	8.275	146	116330	20.1036	ug/l	92
83)	1,2-Dichlorobenzene	8.533	146	108520	18.6140	ug/l	91
84)	Isopropylbenzene	7.404	105	194676	19.6054	ug/l	95
85)	Cyclohexanone	7.506	55	44653	236.9113	ug/l	96
86)	Camphene	7.596	93	56991	18.4411	ug/l	97
87)	1,2,3-Trichloropropane	7.632	75	108506	17.7540	ug/l	99
88)	2-Chlorotoluene	7.746	91	107793	17.9609	ug/l	93
89)	p-Ethyltoluene	7.728	105	193113	19.0619	ug/l	84
90)	4-Chlorotoluene	7.812	91	113888	17.9525	ug/l	90
91)	n-Propylbenzene	7.662	91	194770	19.6631	ug/l	91
92)	Bromobenzene	7.638	77	179198	18.3096	ug/l	93
93)	1,3,5-Trimethylbenzene	7.758	105	153459	23.9758	ug/l	87
94)	Butyl methacrylate	7.758	41	125691	18.4346	ug/l	86
95)	t-Butylbenzene	7.974	119	140258	20.3510	ug/l	82
96)	1,2,4-Trimethylbenzene	8.004	105	170500	19.7318	ug/l	91
97)	sec-Butylbenzene	8.112	105	148893	19.4802	ug/l	95
98)	4-Isopropyltoluene	8.191	119	142693	20.9763	ug/l	91
99)	n-Butylbenzene	8.461	91	140227	18.9411	ug/l	91
100)	p-Diethylbenzene	8.437	119	89740	19.7303	ug/l	92
101)	1,2,4,5-Tetramethylben...	8.953	119	133424	19.5406	ug/l	88
102)	1,2-Dibromo-3-Chloropr...	9.037	157	14782	12.5988	ug/l	78
103)	Camphor	9.530	95	77753	149.7056	ug/l	90
104)	Hexachlorobutadiene	9.668	225	42844	16.2076	ug/l	88
105)	1,2,4-Trichlorobenzene	9.590	180	58030	18.2363	ug/l	97
106)	1,2,3-Trichlorobenzene	9.933	180	47964	17.3692	ug/l	96
107)	Naphthalene	9.776	128	139824	18.2122	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125820.D\data.ms
Quant QT Reviewed
SampleID : CAL @ 20 PPB
Data File: 3M125820.D
Acq On : 03/ 2/18 06:44
Operator : SG
Sam Mult : 1 Vial# : 3
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 03702/18 07:20
Qt Upd On: 02/21/18 15:10
Dichlorodifluoromethane
Chlorodifluoromethane
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
1,1-Dichloroethene,T
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Time-->
Abundance
TIC: 3M125820.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
m&p-Xylenes,T
Time-->
Abundance
TIC: 3M125820.D\data.ms
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Tetrachloroethane,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Bromofluorobenzene,S
Cyclohexanone
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
4-Isopropyltoluene
1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4,I
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

GC/MS Volatile Data
Raw QC Data

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 3
Data File: 3M125263.D
Analysis Date: 02/21/18 07:06
Method: EPA 8260C

Tune Scan/Time Range: Average of 4.936 to 4.975 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	19.9	3471	PASS
75	95	30	60	51.3	8945	PASS
95	95	100	100	100.0	17446	PASS
96	95	5	9	7.7	1340	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	74.1	12923	PASS
175	174	5	9	7.0	899	PASS
176	174	95	101	98.8	12769	PASS
177	176	5	9	6.2	791	PASS

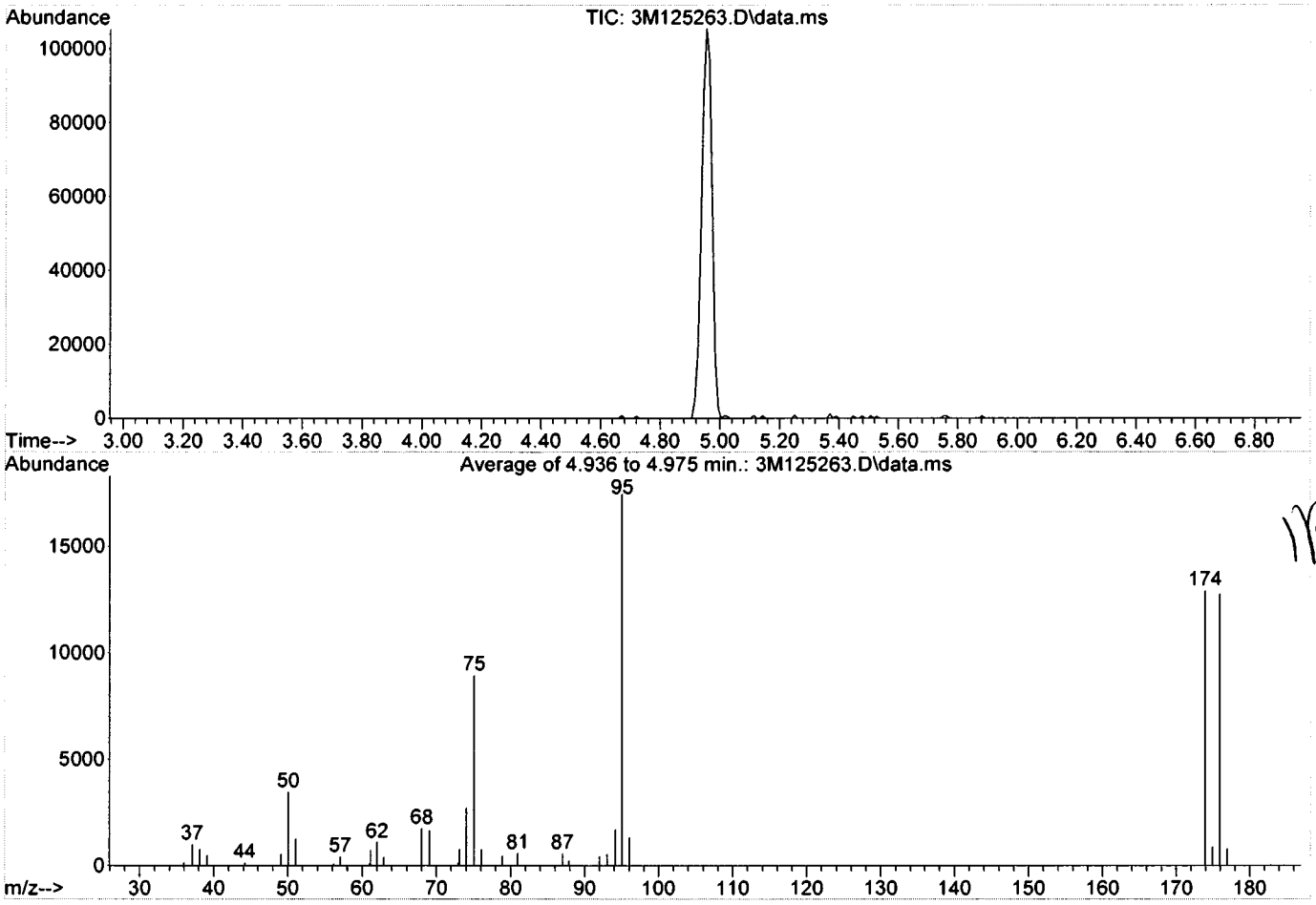
Data File	Sample Number	Analysis Date:
3M125265.D	BLK	02/21/18 07:24
3M125267.D	CAL @ 500 PPB	02/21/18 07:58
3M125269.D	CAL @ 250 PPB	02/21/18 08:31
3M125271.D	CAL @ 100 PPB	02/21/18 09:05
3M125273.D	CAL @ 50 PPB	02/21/18 09:38
3M125275.D	CAL @ 20 PPB	02/21/18 10:12
3M125281.D	CAL @ 0.5 PPB	02/21/18 11:52
3M125282.D	CAL @ 1 PPB	02/21/18 12:09
3M125283.D	CAL @ 5 PPB	02/21/18 12:25
3M125284.D	CAL @ 10 PPB	02/21/18 12:42
3M125287.D	ICV	02/21/18 13:32
3M125289.D	DAILY BLANK	02/21/18 14:06
3M125290.D	DAILY BLANK	02/21/18 14:22
3M125291.D	AD02645-002	02/21/18 14:39
3M125292.D	AD02650-001	02/21/18 14:56
3M125293.D	MBS66857	02/21/18 15:12
3M125294.D	MBS66858	02/21/18 15:29
3M125295.D	AD02672-005(MS)	02/21/18 15:46
3M125296.D	AD02672-005(MSD	02/21/18 16:02

8022605 0101

Data Path : G:\GcMsData\2018\GCMS_3\Data\02-21-18\
Data File : 3M125263.D
Acq On : 21 Feb 2018 7:06
Operator : SG
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2018\GCMS_3\MethodQt\3M_A0119.M
Title : @GCMS_3,ug,624,8260
Last Update : Mon Jan 22 11:39:47 2018



Spectrum Information: Average of 4.936 to 4.975 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.9	3471	PASS
75	95	30	60	51.3	8945	PASS
95	95	100	100	100.0	17446	PASS
96	95	5	9	7.7	1340	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	74.1	12923	PASS
175	174	5	9	7.0	899	PASS
176	174	95	101	98.8	12769	PASS
177	176	5	9	6.2	791	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 3
Data File: 3M125734.D
Analysis Date: 03/01/18 07:10
Method: EPA 8260C

Tune Scan/Time Range: Average of 4.951 to 4.980 min

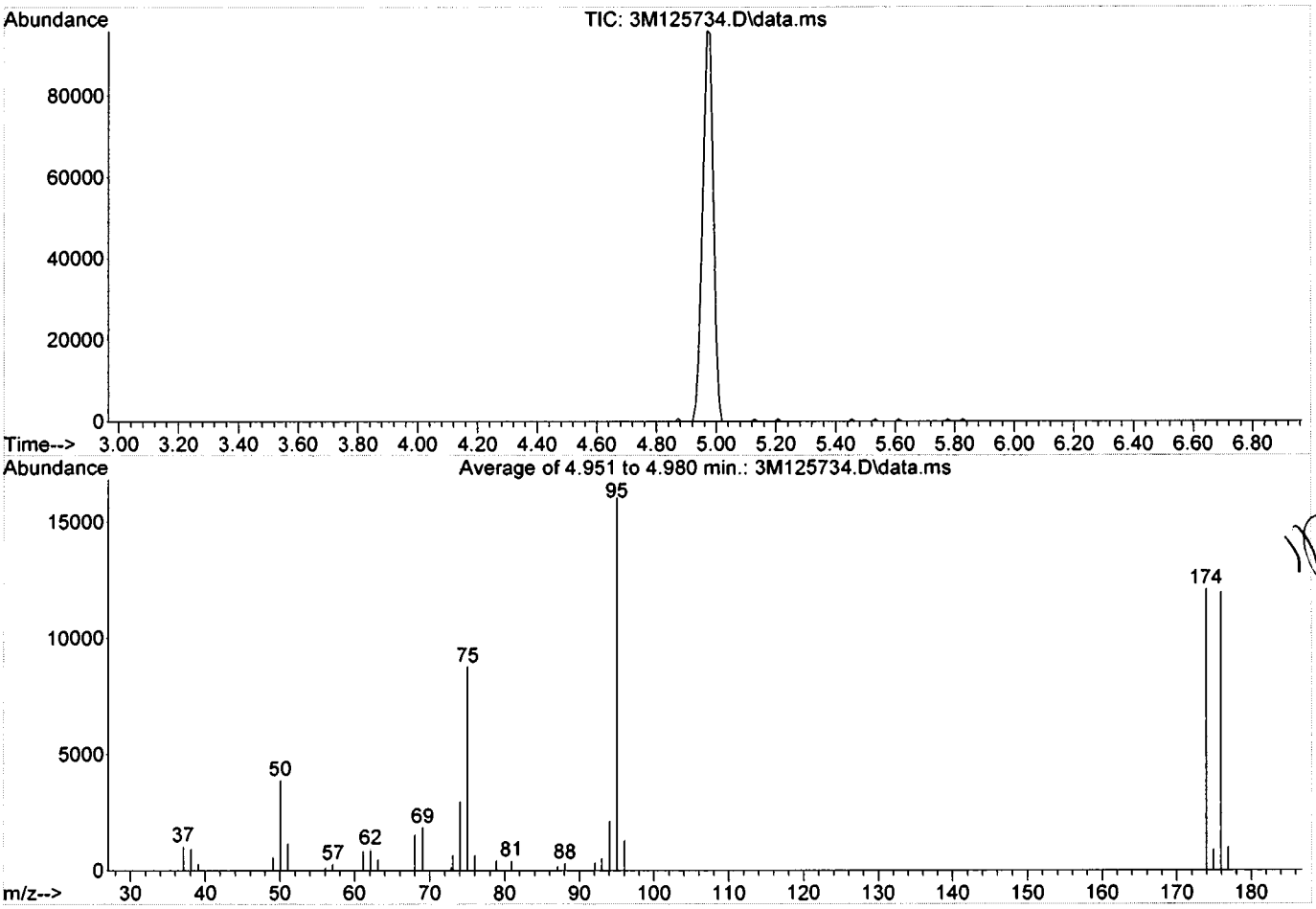
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	24.2	3883	PASS
75	95	30	60	54.7	8781	PASS
95	95	100	100	100.0	16043	PASS
96	95	5	9	8.1	1304	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	75.5	12114	PASS
175	174	5	9	7.4	893	PASS
176	174	95	101	98.9	11978	PASS
177	176	5	9	8.3	997	PASS

Data File	Sample Number	Analysis Date:
3M125736.D	CAL @ 20 PPB	03/01/18 07:34
3M125738.D	BLK	03/01/18 08:09
3M125739.D	DAILY BLANK	03/01/18 08:26
3M125740.D	DAILY BLANK	03/01/18 08:43
3M125741.D	02669-005	03/01/18 09:00
3M125742.D	02669-006	03/01/18 09:17
3M125743.D	02669-004	03/01/18 09:33
3M125744.D	MBS67243	03/01/18 09:51
3M125745.D	AD02780-002	03/01/18 10:07
3M125746.D	AD02780-004	03/01/18 10:25
3M125747.D	EF-1V-273982(022	03/01/18 10:43
3M125748.D	AD02787-002	03/01/18 11:00
3M125749.D	AD02694-003	03/01/18 11:16
3M125750.D	AD02694-002	03/01/18 11:33
3M125751.D	AD02694-001	03/01/18 11:50
3M125752.D	AD02793-007	03/01/18 12:06
3M125753.D	AD02787-001	03/01/18 12:23
3M125754.D	AD02780-005(10X)	03/01/18 12:40
3M125755.D	MBS67247	03/01/18 12:57
3M125756.D	AD02807-001	03/01/18 13:14
3M125757.D	AD02811-006	03/01/18 13:31
3M125758.D	AD02649-001(400u	03/01/18 13:47
3M125759.D	AD02720-007(MSD	03/01/18 14:04
3M125760.D	AD02649-001(40uL	03/01/18 14:21
3M125761.D	02720-006	03/01/18 14:37
3M125762.D	AD02720-007	03/01/18 14:54
3M125763.D	AD02811-006	03/01/18 15:11
3M125764.D	AD02720-007(MS)	03/01/18 15:28
3M125765.D	AD02748-001(10X)	03/01/18 15:45
3M125766.D	AD02833-001	03/01/18 16:01
3M125767.D	MBS67250	03/01/18 16:18
3M125768.D	MBS67251	03/01/18 16:34
3M125769.D	AD02694-001(MS)	03/01/18 16:51
3M125770.D	AD02694-001(MSD	03/01/18 17:08
3M125771.D	AD02833-001	03/01/18 17:25
3M125772.D	AD02780-004	03/01/18 17:42
3M125773.D	MBS67252	03/01/18 17:58
3M125774.D	MBS67253	03/01/18 18:14

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-01-18\
Data File : 3M125734.D
Acq On : 1 Mar 2018 7:10
Operator : SG
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2018\GCMS_3\MethodQt\3M_A00221.M
Title : @GCMS_3,ug,624,8260
Last Update : Wed Feb 21 14:59:36 2018



Spectrum Information: Average of 4.951 to 4.980 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.2	3883	PASS
75	95	30	60	54.7	8781	PASS
95	95	100	100	100.0	16043	PASS
96	95	5	9	8.1	1304	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	75.5	12114	PASS
175	174	5	9	7.4	893	PASS
176	174	95	101	98.9	11978	PASS
177	176	5	9	8.3	997	PASS

Form 5

Tune Name: BFB TUNE
Instrument: GCMS 3
Data File: 3M125819.D
Analysis Date: 03/02/18 06:27
Method: EPA 8260C

Tune Scan/Time Range: Average of 5.113 to 5.133 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
50	95	15	40	18.7	5561	PASS
75	95	30	60	45.1	13426	PASS
95	95	100	100	100.0	29755	PASS
96	95	5	9	7.3	2183	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	77.0	22917	PASS
175	174	5	9	8.1	1864	PASS
176	174	95	101	96.2	22051	PASS
177	176	5	9	6.2	1367	PASS

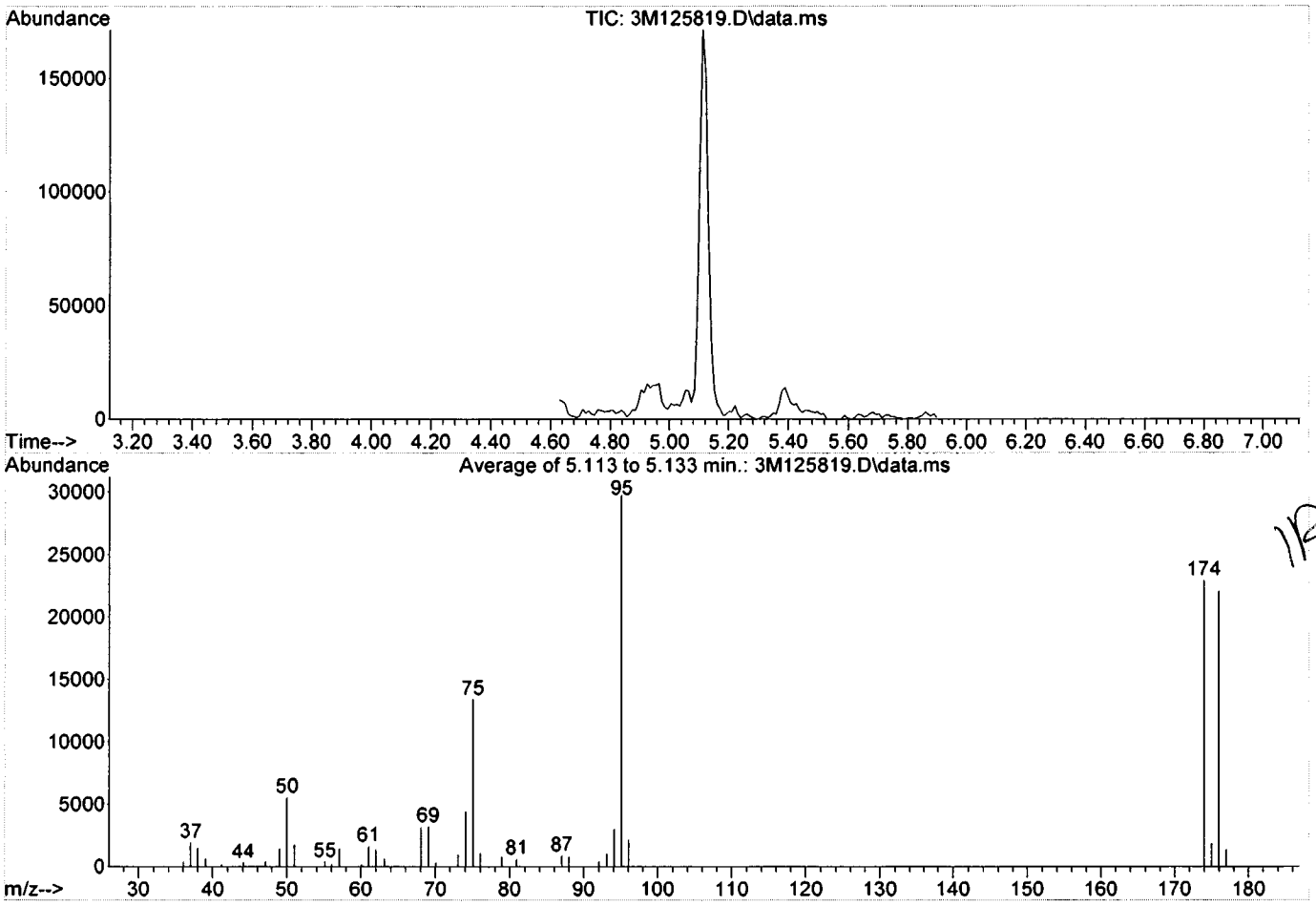
Data File	Sample Number	Analysis Date:
3M125820.D	CAL @ 20 PPB	03/02/18 06:44
3M125822.D	BLK	03/02/18 07:18
3M125823.D	DAILY BLANK	03/02/18 07:35
3M125824.D	DAILY BLANK	03/02/18 07:52
3M125825.D	AD02834-002	03/02/18 08:12
3M125826.D	AD02834-001	03/02/18 08:29
3M125827.D	MBS67264	03/02/18 08:46
3M125828.D	MBS67265	03/02/18 09:02
3M125829.D	AD02865-010	03/02/18 09:20
3M125830.D	AD02780-003	03/02/18 09:36
3M125831.D	AD02780-006	03/02/18 09:53
3M125832.D	AD02813-004	03/02/18 10:10
3M125833.D	AD02813-003	03/02/18 10:27
3M125834.D	AD02736-008(MS)	03/02/18 10:44
3M125835.D	AD02813-002	03/02/18 11:01
3M125836.D	AD02833-001(MS)	03/02/18 11:17
3M125837.D	AD02833-001(MSD	03/02/18 11:35
3M125838.D	AD02736-008(MSD	03/02/18 11:51
3M125839.D	AD02831-001	03/02/18 12:10
3M125840.D	AD02799-001	03/02/18 12:27
3M125841.D	AD02799-002	03/02/18 12:44
3M125842.D	AD02829-001	03/02/18 13:00
3M125843.D	AD02775-001(50X)	03/02/18 13:17
3M125844.D	AD02872-001(20X)	03/02/18 13:34
3M125845.D	MBS67270	03/02/18 13:50
3M125846.D	MBS67271	03/02/18 14:07
3M125847.D	MBS67272	03/02/18 14:23
3M125848.D	MBS67273	03/02/18 14:40
3M125849.D	MBS67276	03/02/18 14:57
3M125850.D	MBS67278	03/02/18 15:13
3M125851.D	MBS67279	03/02/18 15:30
3M125852.D	AD02799-002	03/02/18 15:47
3M125853.D	AD02781-002	03/02/18 16:03
3M125854.D	AD02781-001	03/02/18 16:20
3M125855.D	AD02775-001(10X)	03/02/18 16:36
3M125856.D	AD02840-004	03/02/18 16:53
3M125857.D	AD02836-002	03/02/18 17:10
3M125858.D	AD02835-001	03/02/18 17:26

8022605 0105

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-02-18\
Data File : 3M125819.D
Acq On : 2 Mar 2018 6:27
Operator : SG
Sample : BFB TUNE
Misc : A,5ML
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : G:\GcMsData\2018\GCMS_3\MethodQt\3M_A00221.M
Title : @GCMS_3,ug,624,8260
Last Update : Wed Feb 21 14:59:36 2018



Spectrum Information: Average of 5.113 to 5.133 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	5561	PASS
75	95	30	60	45.1	13426	PASS
95	95	100	100	100.0	29755	PASS
96	95	5	9	7.3	2183	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	77.0	22917	PASS
175	174	5	9	8.1	1864	PASS
176	174	95	101	96.2	22051	PASS
177	176	5	9	6.2	1367	PASS

Form1

ORGANICS VOLATILE REPORT

Sample Number: DAILY BLANK
Client Id:
Data File: 3M125824.D
Analysis Date: 03/02/18 07:52
Date Rec/Extracted:
Column: DB-624 25M 0.200mm ID 1.12um film

Method: EPA 8260C
Matrix: Aqueous
Initial Vol: 5ml
Final Vol: NA
Dilution: 1.00
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
71-55-6	1,1,1-Trichloroethane	1.0	U	56-23-5	Carbon Tetrachloride	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	108-90-7	Chlorobenzene	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluor	1.0	U	75-00-3	Chloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U	67-66-3	Chloroform	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U	74-87-3	Chloromethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U	156-59-2	cis-1,2-Dichloroethene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U	10061-01-5	cis-1,3-Dichloropropene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U	110-82-7	Cyclohexane	1.0	U
96-12-8	1,2-Dibromo-3-Chloropropa	1.0	U	124-48-1	Dibromochloromethane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U	75-71-8	Dichlorodifluoromethane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U	100-41-4	Ethylbenzene	1.0	U
107-06-2	1,2-Dichloroethane	0.50	U	98-82-8	Isopropylbenzene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U	79601-23-1	m&p-Xylenes	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U	79-20-9	Methyl Acetate	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U	108-87-2	Methylcyclohexane	1.0	U
123-91-1	1,4-Dioxane	50	U	75-09-2	Methylene Chloride	1.0	U
78-93-3	2-Butanone	1.0	U	1634-04-4	Methyl-t-butyl ether	0.50	U
591-78-6	2-Hexanone	1.0	U	95-47-6	o-Xylene	1.0	U
108-10-1	4-Methyl-2-Pentanone	1.0	U	100-42-5	Styrene	1.0	U
67-64-1	Acetone	5.0	U	127-18-4	Tetrachloroethene	1.0	U
71-43-2	Benzene	0.50	U	108-88-3	Toluene	1.0	U
74-97-5	Bromochloromethane	1.0	U	156-60-5	trans-1,2-Dichloroethene	1.0	U
75-27-4	Bromodichloromethane	1.0	U	10061-02-6	trans-1,3-Dichloropropene	1.0	U
75-25-2	Bromoform	1.0	U	79-01-6	Trichloroethene	1.0	U
74-83-9	Bromomethane	1.0	U	75-69-4	Trichlorofluoromethane	1.0	U
75-15-0	Carbon Disulfide	1.0	U	75-01-4	Vinyl Chloride	1.0	U

Worksheet #: 455624

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : DAILY BLANK Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125824.D Sam Mult : 1 Vial# : 7 Qt On : 03/02/18 08:03
Acq On : 03/ 2/18 07:52 Misc : A,5ML Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-02-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.982	96	465074	30.00	ug/l	0.04
52) Chlorobenzene-d5	6.814	117	396632	30.00	ug/l	0.04
70) 1,4-Dichlorobenzene-d4	8.256	152	178503	30.00	ug/l	0.04
System Monitoring Compounds						
37) Dibromofluoromethane	4.562	111	127018	28.00	ug/l	0.04
Spiked Amount 30.000			Recovery =	93.33%		
39) 1,2-Dichloroethane-d4	4.778	67	94442	29.71	ug/l	0.04
Spiked Amount 30.000			Recovery =	99.03%		
66) Toluene-d8	5.937	98	486689	28.70	ug/l	0.04
Spiked Amount 30.000			Recovery =	95.67%		
76) Bromofluorobenzene	7.517	174	179466	27.35	ug/l	0.04
Spiked Amount 30.000			Recovery =	91.17%		
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

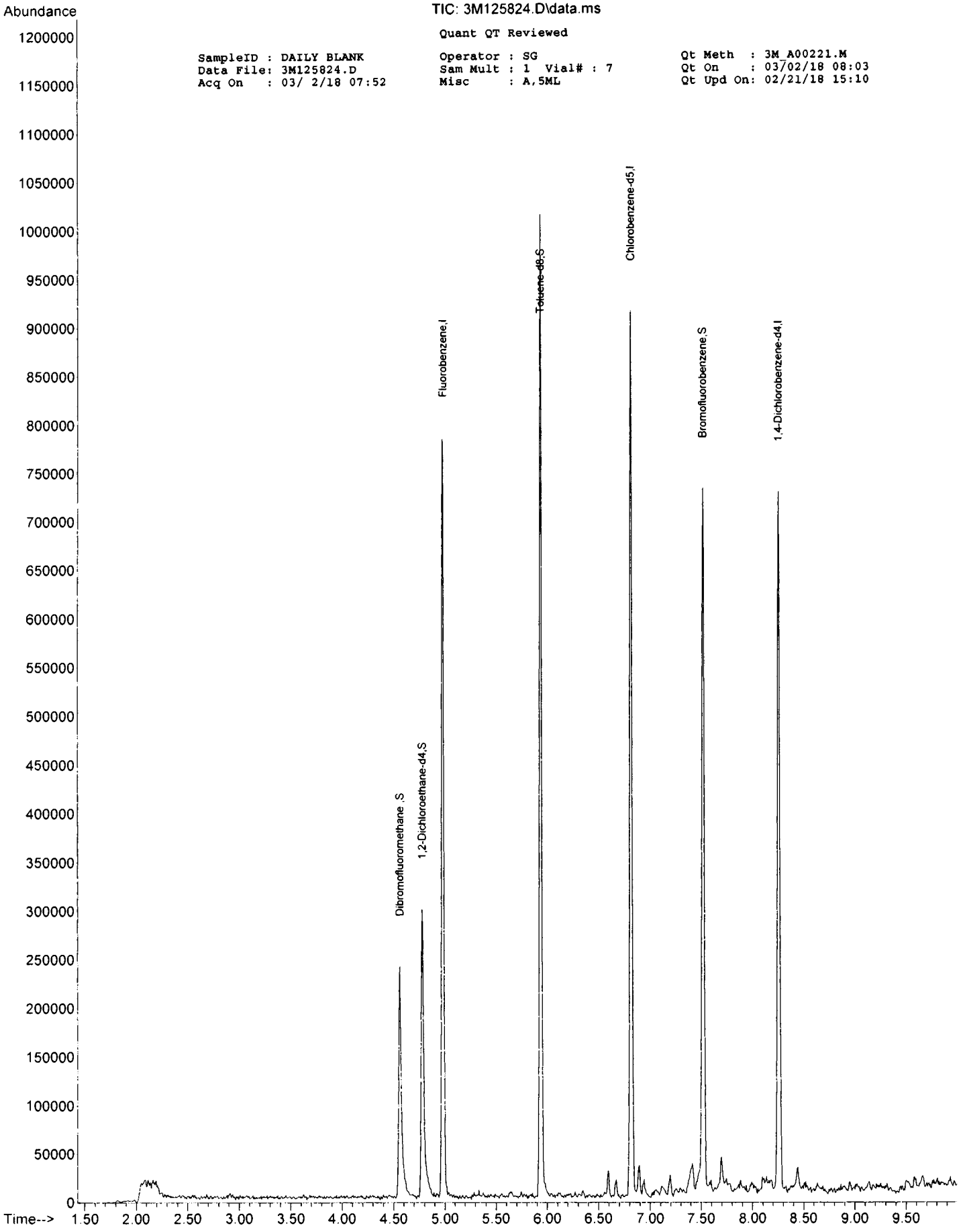
TIC: 3M125824.D\data.ms

Quant QT Reviewed

SampleID : DAILY BLANK
Data File: 3M125824.D
Acq On : 03/ 2/18 07:52

Operator : SG
Sam Mult : 1 Vial# : 7
Misc : A,5ML

Qt Meth : 3M_A00221.M
Qt On : 03/02/18 08:03
Qt Upd On: 02/21/18 15:10



Form3
Recovery Data Laboratory Limits
QC Batch: MBS67252

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M125773.D	MBS67252	3/1/2018 5:58:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	13.2635	0	20	66	50	150
Dichlorodifluoromethane	1	11.2058	0	20	56	50	150
Chloromethane	1	14.6832	0	20	73	50	150
Bromomethane	1	15.1018	0	20	76	50	150
Vinyl Chloride	1	14.947	0	20	75	50	150
Chloroethane	1	20.6635	0	20	103	50	150
Trichlorofluoromethane	1	16.6381	0	20	83	50	150
Ethyl ether	1	18.7079	0	20	94	50	150
Furan	1	17.5516	0	20	88	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	21.4902	0	20	107	50	150
Methylene Chloride	1	18.3135	0	20	92	70	130
Acrolein	1	101.1377	0	100	101	50	150
Acrylonitrile	1	20.4457	0	20	102	50	150
Iodomethane	1	19.1259	0	20	96	50	150
Acetone	1	96.236	0	100	96	50	150
Carbon Disulfide	1	16.5666	0	20	83	50	150
t-Butyl Alcohol	1	89.2608	0	100	89	50	150
n-Hexane	1	18.1202	0	20	91	70	130
Di-isopropyl-ether	1	18.4207	0	20	92	70	130
1,1-Dichloroethene	1	17.2859	0	20	86	70	130
Methyl Acetate	1	18.8151	0	20	94	50	150
Methyl-t-butyl ether	1	18.4619	0	20	92	70	130
1,1-Dichloroethane	1	17.7581	0	20	89	70	130
trans-1,2-Dichloroethene	1	18.9276	0	20	95	70	130
Ethyl-t-butyl ether	1	19.563	0	20	98	70	130
cis-1,2-Dichloroethene	1	19.4828	0	20	97	70	130
Bromochloromethane	1	20.2894	0	20	101	70	130
2,2-Dichloropropane	1	19.3033	0	20	97	70	130
Ethyl acetate	1	21.0557	0	20	105	50	150
1,4-Dioxane	1	939.8395	0	1000	94	50	150
1,1-Dichloropropene	1	17.9493	0	20	90	70	130
Chloroform	1	18.9531	0	20	95	70	130
Cyclohexane	1	18.8034	0	20	94	70	130
1,2-Dichloroethane	1	19.8091	0	20	99	70	130
2-Butanone	1	19.0339	0	20	95	50	150
1,1,1-Trichloroethane	1	17.8379	0	20	89	70	130
Carbon Tetrachloride	1	18.9429	0	20	95	50	150
Vinyl Acetate	1	18.5776	0	20	93	50	150
Bromodichloromethane	1	19.9782	0	20	100	70	130
Methylcyclohexane	1	19.688	0	20	98	70	130
Dibromomethane	1	20.2741	0	20	101	70	130
1,2-Dichloropropane	1	17.9296	0	20	90	70	130
Trichloroethene	1	19.3328	0	20	97	70	130
Benzene	1	18.1934	0	20	91	70	130
tert-Amyl methyl ether	1	18.93	0	20	95	70	130
Iso-propylacetate	1	16.9066	0	20	85	70	130
Methyl methacrylate	1	17.6584	0	20	88	70	130
Dibromochloromethane	1	18.1432	0	20	91	70	130
2-Chloroethylvinylether	1	16.7606	0	20	84	70	130
cis-1,3-Dichloropropene	1	17.1649	0	20	86	70	130
trans-1,3-Dichloropropene	1	17.5264	0	20	88	70	130
Ethyl methacrylate	1	15.9696	0	20	80	70	130
1,1,2-Trichloroethane	1	17.326	0	20	87	70	130
1,2-Dibromoethane	1	18.1098	0	20	91	70	130
1,3-Dichloropropane	1	17.0457	0	20	85	70	130
4-Methyl-2-Pentanone	1	15.9738	0	20	80	50	150
2-Hexanone	1	16.1754	0	20	81	50	150
Tetrachloroethene	1	17.4856	0	20	87	50	150
Toluene	1	16.7581	0	20	84	70	130
1,1,1,2-Tetrachloroethane	1	18.3114	0	20	92	70	130
Chlorobenzene	1	17.871	0	20	89	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Recovery Data Laboratory Limits

QC Batch: MBS67252

n-Butyl acrylate	1	16.0722	0	20	80	70	130
n-Amyl acetate	1	18.1738	0	20	91	70	130
Bromoform	1	17.7265	0	20	89	70	130
Ethylbenzene	1	17.3574	0	20	87	70	130
1,1,2,2-Tetrachloroethane	1	18.0589	0	20	90	70	130
Styrene	1	19.1992	0	20	96	70	130
m&p-Xylenes	1	37.2263	0	40	93	70	130
o-Xylene	1	19.7601	0	20	99	70	130
trans-1,4-Dichloro-2-butene	1	18.3022	0	20	92	50	150
1,3-Dichlorobenzene	1	19.2429	0	20	96	70	130
1,4-Dichlorobenzene	1	20.0141	0	20	100	70	130
1,2-Dichlorobenzene	1	19.1048	0	20	96	70	130
Isopropylbenzene	1	19.4124	0	20	97	70	130
Cyclohexanone	1	94.0286	0	100	94	50	150
Camphene	1	18.3467	0	20	92	70	130
1,2,3-Trichloropropane	1	17.5465	0	20	88	70	130
2-Chlorotoluene	1	19.4088	0	20	97	70	130
p-Ethyltoluene	1	19.3447	0	20	97	70	130
4-Chlorotoluene	1	18.6313	0	20	93	70	130
n-Propylbenzene	1	20.0574	0	20	100	70	130
Bromobenzene	1	18.6641	0	20	93	70	130
1,3,5-Trimethylbenzene	1	21.8371	0	20	109	70	130
Butyl methacrylate	1	16.1402	0	20	81	70	130
t-Butylbenzene	1	20.7189	0	20	104	70	130
1,2,4-Trimethylbenzene	1	19.2307	0	20	96	70	130
sec-Butylbenzene	1	19.9638	0	20	100	70	130
4-Isopropyltoluene	1	20.1832	0	20	101	70	130
n-Butylbenzene	1	18.5607	0	20	93	70	130
p-Diethylbenzene	1	19.1337	0	20	96	70	130
1,2,4,5-Tetramethylbenzene	1	19.8923	0	20	99	70	130
1,2-Dibromo-3-Chloropropane	1	15.3138	0	20	77	50	150
Camphor	1	162.3458	0	200	81	20	150
Hexachlorobutadiene	1	15.5961	0	20	78	50	150
1,2,4-Trichlorobenzene	1	16.4985	0	20	82	70	130
1,2,3-Trichlorobenzene	1	16.8362	0	20	84	70	130
Naphthalene	1	17.2213	0	20	86	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

SampleID : MBS
Data File: 3M125773.D
Acq On : 03/ 1/18 17:58

Operator : WP
Sam Mult : 1 Vial# : 27
Misc : A,5ML

Qt Meth : 3M_A0022I.M
Qt On : 03/01/18 18:28
Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-01-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.963	96	465747	30.00	ug/l	0.02
52) Chlorobenzene-d5	6.795	117	398196	30.00	ug/l	0.02
70) 1,4-Dichlorobenzene-d4	8.231	152	160552	30.00	ug/l	0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.542	111	132633	29.19	ug/l	0.02
Spiked Amount 30.000			Recovery = 97.30%			
39) 1,2-Dichloroethane-d4	4.759	67	91722	28.81	ug/l	0.02
Spiked Amount 30.000			Recovery = 96.03%			
66) Toluene-d8	5.918	98	475786	27.94	ug/l	0.02
Spiked Amount 30.000			Recovery = 93.13%			
76) Bromofluorobenzene	7.498	174	183136	31.02	ug/l	0.02
Spiked Amount 30.000			Recovery = 103.40%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.614	51	87907	13.2635	ug/l	37
6) Dichlorodifluoromethane	1.597	85	11043	11.2058	ug/l	90
7) Chloromethane	1.797	50	32311m	14.6832	ug/l	
8) Bromomethane	2.134	94	27508m	15.1018	ug/l	
9) Vinyl Chloride	1.847	62	35723	14.9470	ug/l	95
10) Chloroethane	2.218	64	36426	20.6635	ug/l	84
11) Trichlorofluoromethane	2.428	101	79791m	16.6381	ug/l	
12) Ethyl ether	2.650	59	61843m	18.7079	ug/l	
13) Furan	2.698	39	140378m	17.5516	ug/l	
14) 1,1,2-Trichloro-1,2,2-...	2.842	101	40458m	21.4902	ug/l	
15) Methylene Chloride	3.251	84	71908	18.3135	ug/l	76
16) Acrolein	2.770	56	61908m	101.1377	ug/l	
17) Acrylonitrile	3.455	53	27656	20.4457	ug/l	86
18) Iodomethane	2.987	142	77034	19.1259	ug/l	98
19) Acetone	2.897	43	134226	96.2360	ug/l	100
20) Carbon Disulfide	3.053	76	132060	16.5666	ug/l	100
21) t-Butyl Alcohol	3.311	59	38838	89.2608	ug/l	87
22) n-Hexane	3.683	57	28411	18.1202	ug/l	74
23) Di-isopropyl-ether	3.840	45	231060	18.4207	ug/l	93
24) 1,1-Dichloroethene	2.854	61	92253	17.2859	ug/l	97
25) Methyl Acetate	3.149	43	101758	18.8151	ug/l	100
26) Methyl-t-butyl ether	3.455	73	210255	18.4619	ug/l	65
27) 1,1-Dichloroethane	3.828	63	116228	17.7581	ug/l	97
28) trans-1,2-Dichloroethene	3.473	96	63725	18.9276	ug/l	81
29) Ethyl-t-butyl ether	4.098	59	262389	19.5630	ug/l	96
30) cis-1,2-Dichloroethene	4.236	61	132996	19.4828	ug/l	83
31) Bromochloromethane	4.398	49	76274m	20.2894	ug/l	
32) 2,2-Dichloropropane	4.242	77	95056	19.3033	ug/l	97
33) Ethyl acetate	4.254	43	102642m	21.0557	ug/l	
34) 1,4-Dioxane	5.401	88	42649	939.8395	ug/l	93
35) 1,1-Dichloropropene	4.663	75	87234	17.9493	ug/l	89
36) Chloroform	4.440	83	139147	18.9531	ug/l	90
38) Cyclohexane	4.597	56	50392	18.8034	ug/l	98
40) 1,2-Dichloroethane	4.807	62	143016	19.8091	ug/l	93
41) 2-Butanone	4.242	43	35894m	19.0339	ug/l	
42) 1,1,1-Trichloroethane	4.566	97	109878	17.8379	ug/l	92
43) Carbon Tetrachloride	4.669	117	83323	18.9429	ug/l	93
44) Vinyl Acetate	3.840	43	157252	18.5776	ug/l	100
45) Bromodichloromethane	5.486	83	107301	19.9782	ug/l	95
46) Methylcyclohexane	5.305	83	41445	19.6880	ug/l	89
47) Dibromomethane	5.413	174	65676	20.2741	ug/l	91
48) 1,2-Dichloropropane	5.329	63	62408	17.9296	ug/l	96
49) Trichloroethene	5.185	130	75476	19.3328	ug/l	82
50) Benzene	4.801	78	241186	18.1934	ug/l	100
51) tert-Amyl methyl ether	4.837	73	225770	18.9300	ug/l	75
53) Iso-propylacetate	4.795	43	183581	16.9066	ug/l	97
54) Methyl methacrylate	5.353	41	106890m	17.6584	ug/l	
55) Dibromochloromethane	6.441	129	81736	18.1432	ug/l	98
56) 2-Chloroethylvinylether	5.642	63	48824	16.7606	ug/l	90
57) cis-1,3-Dichloropropene	5.750	75	111674	17.1649	ug/l	95
58) trans-1,3-Dichloropropene	6.074	75	114347	17.5264	ug/l	97
59) Ethyl methacrylate	6.086	41	95508	15.9696	ug/l	66
60) 1,1,2-Trichloroethane	6.188	97	67956	17.3260	ug/l	91
61) 1,2-Dibromoethane	6.531	107	77211	18.1098	ug/l	97
62) 1,3-Dichloropropane	6.296	76	117124	17.0457	ug/l	97
63) 4-Methyl-2-Pentanone	5.822	43	84621	15.9738	ug/l	87
64) 2-Hexanone	6.309	43	58073	16.1754	ug/l	95
65) Tetrachloroethene	6.284	164	45989	17.4856	ug/l	98
67) Toluene	5.960	92	153287	16.7581	ug/l	95

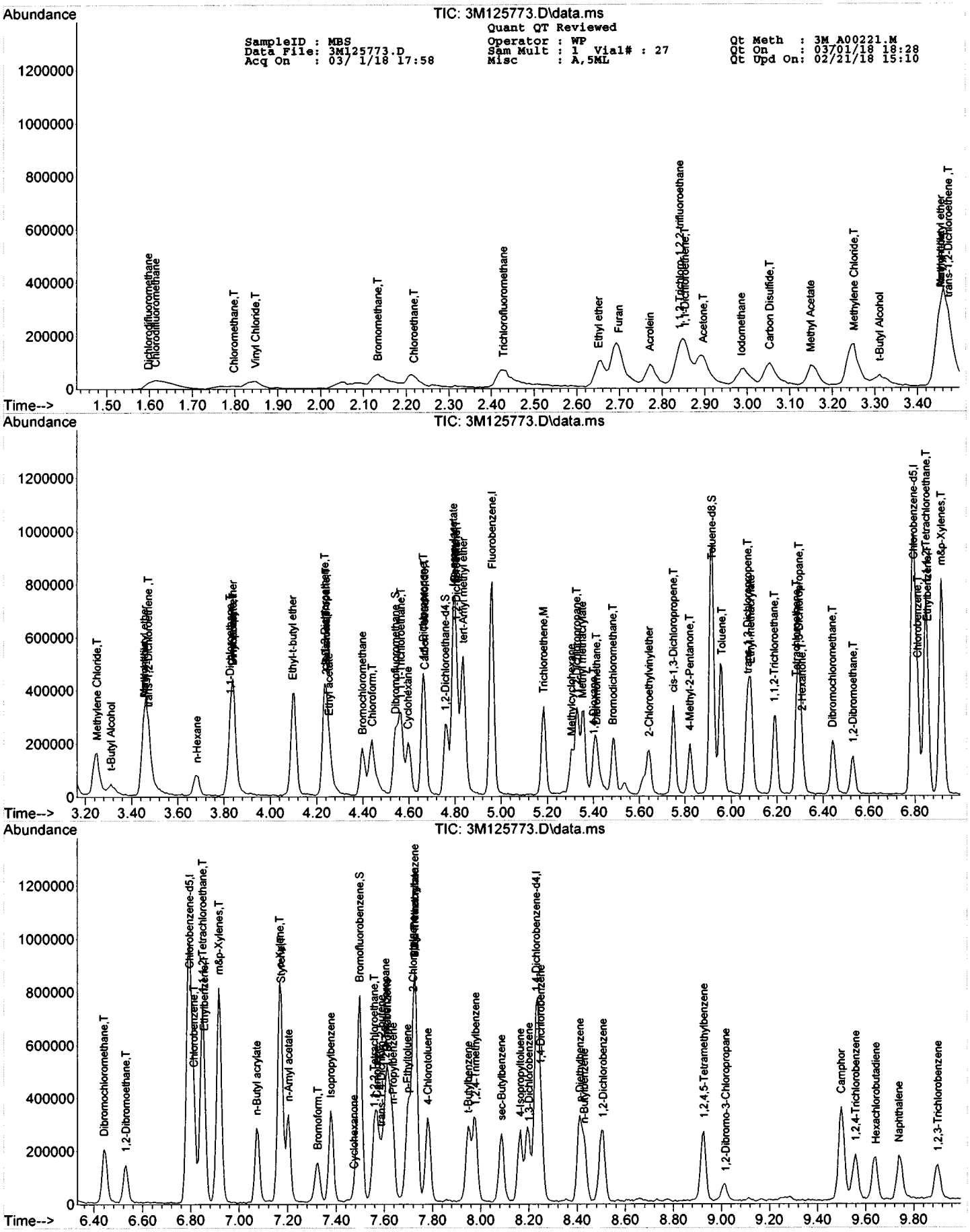
Quantitation Report (QT Reviewed)

SampleID : MBS Operator : WP Qt Meth : 3M_A00221.M
Data File: 3M125773.D Sam Mult : 1 Vial# : 27 Qt On : 03/01/18 18:28
Acq On : 03/ 1/18 17:58 Misc : A,5ML Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-01-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,1,1,2-Tetrachloroethane	6.849	133	68998	18.3114	ug/l	77
69) Chlorobenzene	6.813	112	176195	17.8710	ug/l	99
71) n-Butyl acrylate	7.071	55	142901	16.0722	ug/l	95
72) n-Amyl acetate	7.204	43	140767	18.1738	ug/l	83
73) Bromoform	7.324	173	54112	17.7265	ug/l	100
74) Ethylbenzene	6.855	106	48480	17.3574	ug/l	78
75) 1,1,2,2-Tetrachloroethane	7.558	83	82074	18.0589	ug/l	91
77) Styrene	7.173	104	174933	19.1992	ug/l	97
78) m&p-Xylenes	6.915	106	174524	37.2263	ug/l	96
79) o-Xylene	7.168	106	93626	19.7601	ug/l	65
80) trans-1,4-Dichloro-2-b...	7.588	53	35110	18.3022	ug/l	66
81) 1,3-Dichlorobenzene	8.201	146	102476	19.2429	ug/l	92
82) 1,4-Dichlorobenzene	8.249	146	110934	20.0141	ug/l	91
83) 1,2-Dichlorobenzene	8.507	146	106690	19.1048	ug/l	90
84) Isopropylbenzene	7.378	105	184640	19.4124	ug/l	96
85) Cyclohexanone	7.474	55	16976m	94.0286	ug/l	
86) Camphene	7.570	93	54311	18.3467	ug/l	98
87) 1,2,3-Trichloropropane	7.606	75	102721	17.5465	ug/l	94
88) 2-Chlorotoluene	7.720	91	111576	19.4088	ug/l	95
89) p-Ethyltoluene	7.696	105	187723	19.3447	ug/l	83
90) 4-Chlorotoluene	7.780	91	113216	18.6313	ug/l	90
91) n-Propylbenzene	7.636	91	190307	20.0574	ug/l	94
92) Bromobenzene	7.612	77	174973	18.6641	ug/l	93
93) 1,3,5-Trimethylbenzene	7.726	105	133883	21.8371	ug/l	86
94) Butyl methacrylate	7.726	41	105412	16.1402	ug/l	94
95) t-Butylbenzene	7.948	119	136779	20.7189	ug/l	82
96) 1,2,4-Trimethylbenzene	7.978	105	159171	19.2307	ug/l	87
97) sec-Butylbenzene	8.087	105	146162	19.9638	ug/l	96
98) 4-Isopropyltoluene	8.165	119	131515	20.1832	ug/l	94
99) n-Butylbenzene	8.429	91	131623	18.5607	ug/l	89
100) p-Diethylbenzene	8.411	119	83361	19.1337	ug/l	88
101) 1,2,4,5-Tetramethylben...	8.928	119	130104	19.8923	ug/l	88
102) 1,2-Dibromo-3-Chloropr...	9.018	157	17208	15.3138	ug/l	63
103) Camphor	9.498	95	80739	162.3458	ug/l	93
104) Hexachlorobutadiene	9.642	225	39491	15.5961	ug/l	92
105) 1,2,4-Trichlorobenzene	9.558	180	50329	16.4985	ug/l	98
106) 1,2,3-Trichlorobenzene	9.901	180	44534	16.8362	ug/l	94
107) Naphthalene	9.738	128	126647	17.2213	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125773.D\data.ms
Quant QT Reviewed
SampleID : MBS
Data File: 3M125773.D
Acq On : 03/ 1/18 17:58
Operator : WP
Sam Mult : 1 Vial# : 27
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 03701/18 18:28
Qt Upd On: 02/21/18 15:10
Dichlorodifluoromethane
Chlorodifluoromethane
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
1,1,2-Trichloro-1,2,2-trifluoroethane
1,1-Dichloroethene,T
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
trans-1,2-Dichloroethene ,T
Time-->

Abundance
TIC: 3M125773.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Trichloroethene,M
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,T
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,T
m&p-Xylenes,T
Time-->

Abundance
TIC: 3M125773.D\data.ms
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
1,4-Dichlorobenzene-d4,I
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Form3
Recovery Data Laboratory Limits
QC Batch: MBS67265

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M125828.D	MBS67265	3/2/2018 9:02:00 AM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	14.1273	0	20	71	50	150
Dichlorodifluoromethane	1	12.6272	0	20	63	50	150
Chloromethane	1	17.3749	0	20	87	50	150
Bromomethane	1	15.5704	0	20	78	50	150
Vinyl Chloride	1	17.429	0	20	87	50	150
Chloroethane	1	21.2414	0	20	106	50	150
Trichlorofluoromethane	1	17.9056	0	20	90	50	150
Ethyl ether	1	19.5319	0	20	98	50	150
Furan	1	17.6017	0	20	88	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	24.4184	0	20	122	50	150
Methylene Chloride	1	21.0754	0	20	105	70	130
Acrolein	1	105.4743	0	100	105	50	150
Acrylonitrile	1	19.4991	0	20	97	50	150
Iodomethane	1	22.0521	0	20	110	50	150
Acetone	1	109.2948	0	100	109	50	150
Carbon Disulfide	1	19.5586	0	20	98	50	150
t-Butyl Alcohol	1	99.4649	0	100	99	50	150
n-Hexane	1	23.2354	0	20	116	70	130
Di-isopropyl-ether	1	19.4592	0	20	97	70	130
1,1-Dichloroethene	1	19.9523	0	20	100	70	130
Methyl Acetate	1	18.3941	0	20	92	50	150
Methyl-t-butyl ether	1	19.96	0	20	100	70	130
1,1-Dichloroethane	1	20.1454	0	20	101	70	130
trans-1,2-Dichloroethene	1	20.4459	0	20	102	70	130
Ethyl-t-butyl ether	1	20.298	0	20	101	70	130
cis-1,2-Dichloroethene	1	20.6776	0	20	103	70	130
Bromochloromethane	1	16.5688	0	20	83	70	130
2,2-Dichloropropane	1	22.9344	0	20	115	70	130
Ethyl acetate	1	19.8759	0	20	99	50	150
1,4-Dioxane	1	1055.473	0	1000	106	50	150
1,1-Dichloropropene	1	22.259	0	20	111	70	130
Chloroform	1	20.836	0	20	104	70	130
Cyclohexane	1	22.9935	0	20	115	70	130
1,2-Dichloroethane	1	21.009	0	20	105	70	130
2-Butanone	1	23.4868	0	20	117	50	150
1,1,1-Trichloroethane	1	20.567	0	20	103	70	130
Carbon Tetrachloride	1	22.5869	0	20	113	50	150
Vinyl Acetate	1	20.1281	0	20	101	50	150
Bromodichloromethane	1	19.993	0	20	100	70	130
Methylcyclohexane	1	21.8358	0	20	109	70	130
Dibromomethane	1	21.5422	0	20	108	70	130
1,2-Dichloropropane	1	20.8317	0	20	104	70	130
Trichloroethene	1	22.321	0	20	112	70	130
Benzene	1	20.8939	0	20	104	70	130
tert-Amyl methyl ether	1	20.6098	0	20	103	70	130
Iso-propylacetate	1	17.4782	0	20	87	70	130
Methyl methacrylate	1	17.9339	0	20	90	70	130
Dibromochloromethane	1	17.9836	0	20	90	70	130
2-Chloroethylvinylether	1	17.5187	0	20	88	70	130
cis-1,3-Dichloropropene	1	19.4149	0	20	97	70	130
trans-1,3-Dichloropropene	1	17.0768	0	20	85	70	130
Ethyl methacrylate	1	16.9988	0	20	85	70	130
1,1,2-Trichloroethane	1	18.505	0	20	93	70	130
1,2-Dibromoethane	1	18.0023	0	20	90	70	130
1,3-Dichloropropane	1	18.3434	0	20	92	70	130
4-Methyl-2-Pentanone	1	16.4754	0	20	82	50	150
2-Hexanone	1	19.0152	0	20	95	50	150
Tetrachloroethene	1	22.2631	0	20	111	50	150
Toluene	1	18.6734	0	20	93	70	130
1,1,1,2-Tetrachloroethane	1	20.2926	0	20	101	70	130
Chlorobenzene	1	19.7727	0	20	99	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS67265

n-Butyl acrylate	1	15.7293	0	20	79	70	130
n-Amyl acetate	1	17.0507	0	20	85	70	130
Bromoform	1	16.0295	0	20	80	70	130
Ethylbenzene	1	18.32	0	20	92	70	130
1,1,2,2-Tetrachloroethane	1	16.4667	0	20	82	70	130
Styrene	1	18.3686	0	20	92	70	130
m&p-Xylenes	1	36.1499	0	40	90	70	130
o-Xylene	1	19.0362	0	20	95	70	130
trans-1,4-Dichloro-2-butene	1	16.6162	0	20	83	50	150
1,3-Dichlorobenzene	1	18.4162	0	20	92	70	130
1,4-Dichlorobenzene	1	18.8497	0	20	94	70	130
1,2-Dichlorobenzene	1	17.1921	0	20	86	70	130
Isopropylbenzene	1	18.1335	0	20	91	70	130
Cyclohexanone	1	163.7695	0	100	164*	50	150
Camphene	1	19.2331	0	20	96	70	130
1,2,3-Trichloropropane	1	17.0878	0	20	85	70	130
2-Chlorotoluene	1	17.9288	0	20	90	70	130
p-Ethyltoluene	1	19.2333	0	20	96	70	130
4-Chlorotoluene	1	17.8584	0	20	89	70	130
n-Propylbenzene	1	18.343	0	20	92	70	130
Bromobenzene	1	18.1323	0	20	91	70	130
1,3,5-Trimethylbenzene	1	20.5713	0	20	103	70	130
Butyl methacrylate	1	15.5715	0	20	78	70	130
t-Butylbenzene	1	19.0507	0	20	95	70	130
1,2,4-Trimethylbenzene	1	18.6364	0	20	93	70	130
sec-Butylbenzene	1	18.4219	0	20	92	70	130
4-Isopropyltoluene	1	18.2279	0	20	91	70	130
n-Butylbenzene	1	17.5161	0	20	88	70	130
p-Diethylbenzene	1	17.7711	0	20	89	70	130
1,2,4,5-Tetramethylbenzene	1	19.0853	0	20	95	70	130
1,2-Dibromo-3-Chloropropane	1	14.9281	0	20	75	50	150
Camphor	1	179.8762	0	200	90	20	150
Hexachlorobutadiene	1	14.4619	0	20	72	50	150
1,2,4-Trichlorobenzene	1	16.4683	0	20	82	70	130
1,2,3-Trichlorobenzene	1	17.2495	0	20	86	70	130
Naphthalene	1	17.2796	0	20	86	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Quantitation Report (QT Reviewed)

SampleID : MBS | Operator : SG | Qt Meth : 3M_A00221.M
Data File: 3M125828.D | Sam Mult : 1 Vial# : 11 | Qt On : 03/02/18 09:41
Acq On : 03/ 2/18 09:02 | Misc : A,5ML | Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-02-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.981	96	414070	30.00	ug/l	0.04
52) Chlorobenzene-d5	6.814	117	359132	30.00	ug/l	0.04
70) 1,4-Dichlorobenzene-d4	8.255	152	165721	30.00	ug/l	0.04
System Monitoring Compounds						
37) Dibromofluoromethane	4.561	111	120439	29.82	ug/l	0.04
Spiked Amount 30.000			Recovery = 99.40%			
39) 1,2-Dichloroethane-d4	4.783	67	85103	30.07	ug/l	0.04
Spiked Amount 30.000			Recovery = 100.23%			
66) Toluene-d8	5.937	98	434001	28.26	ug/l	0.04
Spiked Amount 30.000			Recovery = 94.20%			
76) Bromofluorobenzene	7.522	174	172865	28.37	ug/l	0.05
Spiked Amount 30.000			Recovery = 94.57%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.627	51	83243	14.1273	ug/l	38
6) Dichlorodifluoromethane	1.610	85	11063	12.6272	ug/l	72
7) Chloromethane	1.777	50	33992	17.3749	ug/l	80
8) Bromomethane	2.152	94	25181	15.5704	ug/l	94
9) Vinyl Chloride	1.860	62	37033	17.4290	ug/l	88
10) Chloroethane	2.224	64	33290	21.2414	ug/l	95
11) Trichlorofluoromethane	2.441	101	76342	17.9056	ug/l	91
12) Ethyl ether	2.669	59	57403	19.5319	ug/l	77
13) Furan	2.711	39	125159	17.6017	ug/l	96
14) 1,1,2-Trichloro-1,2,2-...	2.855	101	40870	24.4184	ug/l	99
15) Methylene Chloride	3.264	84	73571	21.0754	ug/l	86
16) Acrolein	2.789	56	57399	105.4743	ug/l	89
17) Acrylonitrile	3.474	53	23449	19.4991	ug/l	93
18) Iodomethane	3.011	142	78965	22.0521	ug/l	96
19) Acetone	2.909	43	135526	109.2948	ug/l	99
20) Carbon Disulfide	3.071	76	138612	19.5586	ug/l	100
21) t-Butyl Alcohol	3.330	59	38476	99.4649	ug/l	89
22) n-Hexane	3.702	57	32389	23.2354	ug/l	84
23) Di-isopropyl-ether	3.858	45	217004	19.4592	ug/l	90
24) 1,1-Dichloroethene	2.873	61	94668	19.9523	ug/l	95
25) Methyl Acetate	3.173	43	88443	18.3941	ug/l	100
26) Methyl-t-butyl ether	3.474	73	202095	19.9600	ug/l	64
27) 1,1-Dichloroethane	3.846	63	117223	20.1454	ug/l	100
28) trans-1,2-Dichloroethene	3.492	96	61199	20.4459	ug/l	81
29) Ethyl-t-butyl ether	4.117	59	242040	20.2980	ug/l	93
30) cis-1,2-Dichloroethene	4.255	61	125490	20.6776	ug/l	82
31) Bromochloromethane	4.417	49	55376	16.5688	ug/l	83
32) 2,2-Dichloropropane	4.255	77	100406	22.9344	ug/l	97
33) Ethyl acetate	4.273	43	86140m	19.8759	ug/l	
34) 1,4-Dioxane	5.420	88	42582	1055.4732	ug/l	86
35) 1,1-Dichloropropene	4.681	75	96176	22.2590	ug/l	95
36) Chloroform	4.453	83	135998	20.8360	ug/l	89
38) Cyclohexane	4.615	56	54784	22.9935	ug/l	95
40) 1,2-Dichloroethane	4.825	62	134849	21.0090	ug/l	94
41) 2-Butanone	4.261	43	39377m	23.4868	ug/l	
42) 1,1,1-Trichloroethane	4.585	97	112632	20.5670	ug/l	96
43) Carbon Tetrachloride	4.687	117	88328	22.5869	ug/l	95
44) Vinyl Acetate	3.858	43	151472	20.1281	ug/l	100
45) Bromodichloromethane	5.510	83	95466	19.9930	ug/l	97
46) Methylcyclohexane	5.324	83	40866	21.8358	ug/l	93
47) Dibromomethane	5.432	174	62041	21.5422	ug/l	94
48) 1,2-Dichloropropane	5.348	63	64464	20.8317	ug/l	93
49) Trichloroethene	5.204	130	77473	22.3210	ug/l	90
50) Benzene	4.819	78	246253	20.8939	ug/l	100
51) tert-Amyl methyl ether	4.855	73	218531	20.6098	ug/l	73
53) Iso-propylacetate	4.813	43	171169	17.4782	ug/l	95
54) Methyl methacrylate	5.372	41	97908m	17.9339	ug/l	
55) Dibromochloromethane	6.465	129	73069	17.9836	ug/l	88
56) 2-Chloroethylvinylether	5.660	63	46026	17.5187	ug/l	91
57) cis-1,3-Dichloropropene	5.768	75	113921	19.4149	ug/l	86
58) trans-1,3-Dichloropropene	6.093	75	100484	17.0768	ug/l	89
59) Ethyl methacrylate	6.105	41	91690	16.9988	ug/l	74
60) 1,1,2-Trichloroethane	6.213	97	65460	18.5050	ug/l	91
61) 1,2-Dibromoethane	6.549	107	69223	18.0023	ug/l	90
62) 1,3-Dichloropropane	6.321	76	113676	18.3434	ug/l	96
63) 4-Methyl-2-Pentanone	5.840	43	78716	16.4754	ug/l	92
64) 2-Hexanone	6.327	43	61571	19.0152	ug/l	92
65) Tetrachloroethene	6.309	164	52810	22.2631	ug/l	89
67) Toluene	5.979	92	154050	18.6734	ug/l	96

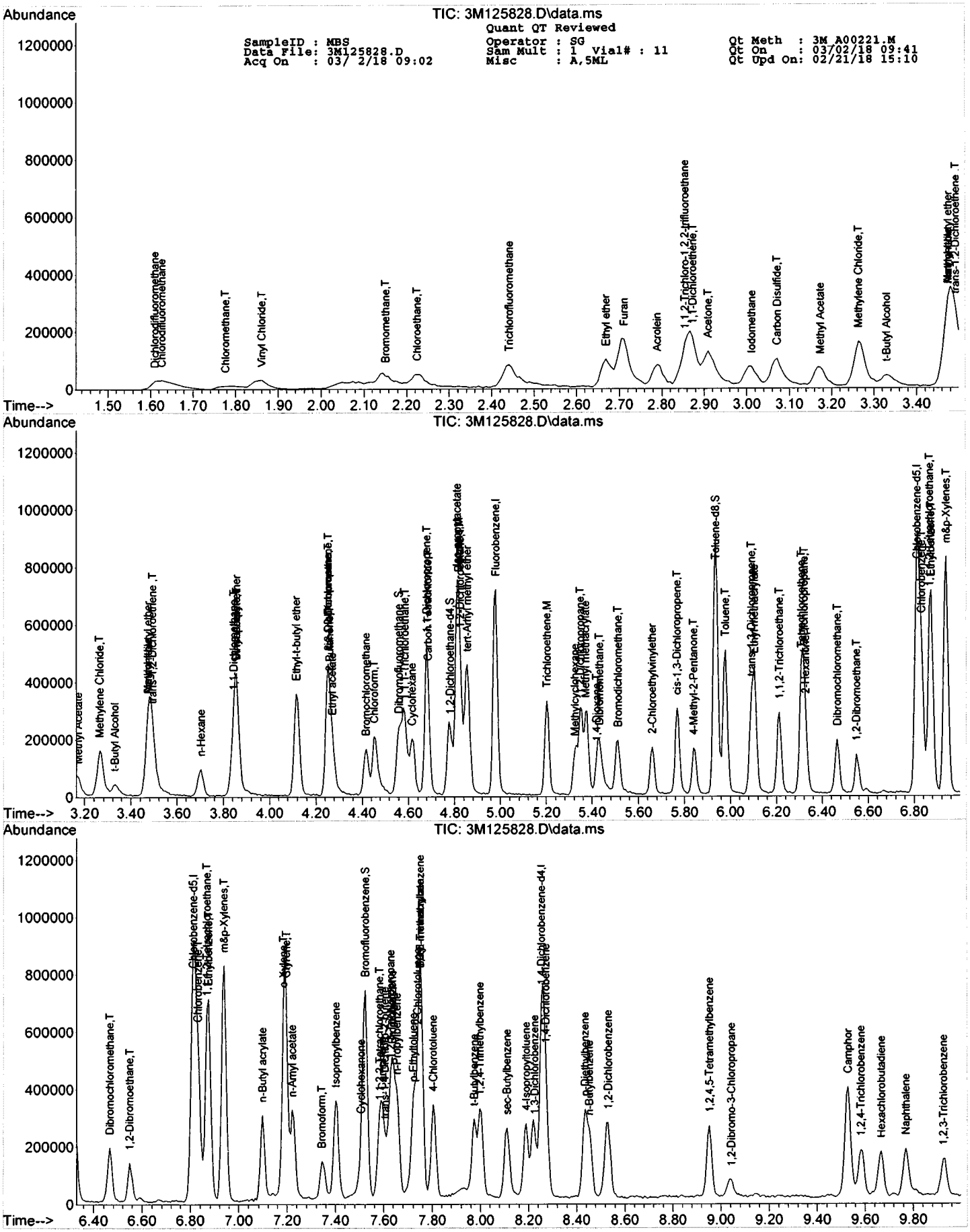
Quantitation Report (QT Reviewed)

SampleID : MBS Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125828.D Sam Mult : 1 Vial# : 11 Qt On : 03/02/18 09:41
Acq On : 03/ 2/18 09:02 Misc : A,5ML Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-02-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,1,1,2-Tetrachloroethane	6.868	133	68962	20.2926	ug/l	82
69) Chlorobenzene	6.832	112	175819	19.7727	ug/l	97
71) n-Butyl acrylate	7.096	55	144354	15.7293	ug/l	93
72) n-Amyl acetate	7.222	43	136320	17.0507	ug/l	86
73) Bromoform	7.342	173	50507	16.0295	ug/l	99
74) Ethylbenzene	6.874	106	52816	18.3200	ug/l	84
75) 1,1,2,2-Tetrachloroethane	7.583	83	77247	16.4667	ug/l	89
77) Styrene	7.198	104	172753	18.3686	ug/l	92
78) m&p-Xylenes	6.940	106	174934	36.1499	ug/l	95
79) o-Xylene	7.186	106	93100	19.0362	ug/l	69
80) trans-1,4-Dichloro-2-b...	7.607	53	32902	16.6162	ug/l	69
81) 1,3-Dichlorobenzene	8.225	146	101231	18.4162	ug/l	91
82) 1,4-Dichlorobenzene	8.273	146	107844	18.8497	ug/l	96
83) 1,2-Dichlorobenzene	8.532	146	99100	17.1921	ug/l	91
84) Isopropylbenzene	7.402	105	178029	18.1335	ug/l	95
85) Cyclohexanone	7.504	55	30519	163.7695	ug/l	96
86) Camphene	7.595	93	58768	19.2331	ug/l	95
87) 1,2,3-Trichloropropane	7.631	75	103256	17.0878	ug/l	97
88) 2-Chlorotoluene	7.739	91	106386	17.9288	ug/l	93
89) p-Ethyltoluene	7.721	105	192651	19.2333	ug/l	78
90) 4-Chlorotoluene	7.805	91	112013	17.8584	ug/l	93
91) n-Propylbenzene	7.655	91	179644	18.3430	ug/l	94
92) Bromobenzene	7.637	77	175460	18.1323	ug/l	93
93) 1,3,5-Trimethylbenzene	7.751	105	130183	20.5713	ug/l	92
94) Butyl methacrylate	7.751	41	104972	15.5715	ug/l	91
95) t-Butylbenzene	7.973	119	129815	19.0507	ug/l	84
96) 1,2,4-Trimethylbenzene	7.997	105	159218	18.6364	ug/l	90
97) sec-Butylbenzene	8.111	105	139215	18.4219	ug/l	97
98) 4-Isopropyltoluene	8.189	119	122598	18.2279	ug/l	95
99) n-Butylbenzene	8.454	91	128214	17.5161	ug/l	88
100) p-Diethylbenzene	8.435	119	79917	17.7711	ug/l	97
101) 1,2,4,5-Tetramethylben...	8.952	119	128845	19.0853	ug/l	92
102) 1,2-Dibromo-3-Chloropr...	9.042	157	17315	14.9281	ug/l	67
103) Camphor	9.529	95	92294	179.8762	ug/l	88
104) Hexachlorobutadiene	9.667	225	37798	14.4619	ug/l	98
105) 1,2,4-Trichlorobenzene	9.583	180	51855	16.4683	ug/l	96
106) 1,2,3-Trichlorobenzene	9.925	180	47096	17.2495	ug/l	97
107) Naphthalene	9.769	128	131167	17.2796	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125828.D\data.ms
Quant QT Reviewed
SampleID : MBS
Data File: 3M125828.D
Acq On : 03/ 2/18 09:02
Operator : SG
Sam Mult : 1 Vial# : 11
Misc : A,5ML
Qt Meth : 3M_A00221.M
Qt On : 03/02/18 09:41
Qt Upd On: 02/21/18 15:10
Dichlorodifluoromethane
Chlorodifluoromethane
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
1,1,2-Trichloro-1,2,2-trifluoroethane
1,1-Dichloroethene,T
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
trans-1,2-Dichloroethene,T
Time-->

Abundance
TIC: 3M125828.D\data.ms
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Methylcyclohexane
Methyl Methacrylate
1,4-Dioxane,T
Bromodichloromethane,T
2-Chloroethylvinylether
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene-d8,S
Toluene,T
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Ethylbenzene,T
m&p-Xylenes,T
Time-->

Abundance
TIC: 3M125828.D\data.ms
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
1,1,1,2-Tetrachloroethane,T
m&p-Xylenes,T
n-Butyl acrylate
o-Xylene,T
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Bromofluorobenzene,S
Cyclohexanone
4-Chlorotoluene
t-Butylbenzene
sec-Butylbenzene
4-Isopropyltoluene
1,3-Dichlorobenzene
1,4-Dichlorobenzene-d4,I
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Form3
Recovery Data Laboratory Limits
QC Batch: MBS67265

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M125836.D	AD02833-001(MS)	3/2/2018 11:17:00 AM
Non Spike(If applicable): 3M125771.D	AD02833-001	3/1/2018 5:25:00 PM
Inst Blank(If applicable):		

Method: 8260C | Matrix: Aqueous | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	11.6071	0	20	58	50	150
Dichlorodifluoromethane	1	11.6146	0	20	58	50	150
Chloromethane	1	15.9783	0	20	80	50	150
Bromomethane	1	12.1952	0	20	61	50	150
Vinyl Chloride	1	15.7311	0	20	79	50	150
Chloroethane	1	18.8917	0	20	94	50	150
Trichlorofluoromethane	1	14.7836	0	20	74	50	150
Ethyl ether	1	17.9383	0	20	90	50	150
Furan	1	15.1618	0	20	76	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	21.2965	0	20	106	50	150
Methylene Chloride	1	17.3342	0	20	87	70	130
Acrolein	1	93.4672	0	100	93	50	150
Acrylonitrile	1	17.9873	0	20	90	50	150
Iodomethane	1	18.3805	0	20	92	50	150
Acetone	1	91.6056	0	100	92	50	150
Carbon Disulfide	1	18.5926	0	20	93	50	150
t-Butyl Alcohol	1	91.2169	0	100	91	50	150
n-Hexane	1	15.6924	0	20	78	70	130
Di-isopropyl-ether	1	17.8018	0	20	89	70	130
1,1-Dichloroethene	1	19.0003	0	20	95	70	130
Methyl Acetate	1	16.7737	0	20	84	50	150
Methyl-t-butyl ether	1	17.4827	0	20	87	70	130
1,1-Dichloroethane	1	17.9344	0	20	90	70	130
trans-1,2-Dichloroethene	1	18.5524	0	20	93	70	130
Ethyl-t-butyl ether	1	18.0902	0	20	90	70	130
cis-1,2-Dichloroethene	1	19.0989	0	20	95	70	130
Bromochloromethane	1	15.407	0	20	77	70	130
2,2-Dichloropropane	1	15.3698	0	20	77	70	130
Ethyl acetate	1	18.619	0	20	93	50	150
1,4-Dioxane	1	973.7199	0	1000	97	50	150
1,1-Dichloropropene	1	18.782	0	20	94	70	130
Chloroform	1	17.333	0	20	87	70	130
Cyclohexane	1	19.3834	0	20	97	70	130
1,2-Dichloroethane	1	18.2382	0	20	91	70	130
2-Butanone	1	16.8391	0	20	84	50	150
1,1,1-Trichloroethane	1	18.73	0	20	94	70	130
Carbon Tetrachloride	1	20.4673	0	20	102	50	150
Vinyl Acetate	1	17.6275	0	20	88	50	150
Bromodichloromethane	1	18.7636	0	20	94	70	130
Methylcyclohexane	1	17.6978	0	20	88	70	130
Dibromomethane	1	19.5438	0	20	98	70	130
1,2-Dichloropropane	1	18.065	0	20	90	70	130
Trichloroethene	1	20.0085	0	20	100	70	130
Benzene	1	18.1289	0	20	91	70	130
tert-Amyl methyl ether	1	17.5891	0	20	88	70	130
Iso-propylacetate	1	15.6394	0	20	78	70	130
Methyl methacrylate	1	15.3348	0	20	77	70	130
Dibromochloromethane	1	16.4995	0	20	82	70	130
2-Chloroethylvinylether	1	0	0	20	0*	70	130
cis-1,3-Dichloropropene	1	15.8079	0	20	79	70	130
trans-1,3-Dichloropropene	1	15.1108	0	20	76	70	130
Ethyl methacrylate	1	15.6823	0	20	78	70	130
1,1,2-Trichloroethane	1	16.6798	0	20	83	70	130
1,2-Dibromoethane	1	16.2995	0	20	81	70	130
1,3-Dichloropropane	1	17.3033	0	20	87	70	130
4-Methyl-2-Pentanone	1	15.2969	0	20	76	50	150
2-Hexanone	1	16.8578	0	20	84	50	150
Tetrachloroethene	1	22.3436	0	20	112	50	150
Toluene	1	16.0775	0	20	80	70	130
1,1,1,2-Tetrachloroethane	1	17.8666	0	20	89	70	130
Chlorobenzene	1	17.3738	0	20	87	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS67265

n-Butyl acrylate	1	14.1351	0	20	71	70	130
n-Amyl acetate	1	15.3653	0	20	77	70	130
Bromoform	1	16.31	0	20	82	70	130
Ethylbenzene	1	16.747	0	20	84	70	130
1,1,2,2-Tetrachloroethane	1	14.6719	0	20	73	70	130
Styrene	1	16.3656	0	20	82	70	130
m&p-Xylenes	1	34.6322	0	40	87	70	130
o-Xylene	1	17.4869	0	20	87	70	130
trans-1,4-Dichloro-2-butene	1	10.9597	0	20	55	50	150
1,3-Dichlorobenzene	1	16.8334	0	20	84	70	130
1,4-Dichlorobenzene	1	16.3982	0	20	82	70	130
1,2-Dichlorobenzene	1	16.6063	0	20	83	70	130
Isopropylbenzene	1	16.9061	0	20	85	70	130
Cyclohexanone	1	82.3892	0	100	82	50	150
Camphene	1	3.5495	0	20	18*	70	130
1,2,3-Trichloropropane	1	15.6241	0	20	78	70	130
2-Chlorotoluene	1	15.8859	0	20	79	70	130
p-Ethyltoluene	1	16.5938	0	20	83	70	130
4-Chlorotoluene	1	16.1415	0	20	81	70	130
n-Propylbenzene	1	16.6678	0	20	83	70	130
Bromobenzene	1	15.195	0	20	76	70	130
1,3,5-Trimethylbenzene	1	19.4449	0	20	97	70	130
Butyl methacrylate	1	14.7659	0	20	74	70	130
t-Butylbenzene	1	17.5078	0	20	88	70	130
1,2,4-Trimethylbenzene	1	15.601	0	20	78	70	130
sec-Butylbenzene	1	16.1472	0	20	81	70	130
4-Isopropyltoluene	1	16.4179	0	20	82	70	130
n-Butylbenzene	1	15.2422	0	20	76	70	130
p-Diethylbenzene	1	16.0226	0	20	80	70	130
1,2,4,5-Tetramethylbenzene	1	15.1867	0	20	76	70	130
1,2-Dibromo-3-Chloropropane	1	12.4297	0	20	62	50	150
Camphor	1	169.2207	0	200	85	20	150
Hexachlorobutadiene	1	11.891	0	20	59	50	150
1,2,4-Trichlorobenzene	1	13.5476	0	20	68*	70	130
1,2,3-Trichlorobenzene	1	13.5097	0	20	68*	70	130
Naphthalene	1	14.5349	0	20	73	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: MBS67265

Data File	Sample ID:	Analysis Date
Spike or Dup: 3M125837.D	AD02833-001(MSD)	3/2/2018 11:35:00 AM
Non Spike(If applicable): 3M125771.D	AD02833-001	3/1/2018 5:25:00 PM
Inst Blank(If applicable):		
Method: 8260C	Matrix: Aqueous	QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Chlorodifluoromethane	1	11.1191	0	20	56	50	150
Dichlorodifluoromethane	1	10.0182	0	20	50	50	150
Chloromethane	1	14.5897	0	20	73	50	150
Bromomethane	1	13.8008	0	20	69	50	150
Vinyl Chloride	1	15.807	0	20	79	50	150
Chloroethane	1	19.1128	0	20	96	50	150
Trichlorofluoromethane	1	16.2621	0	20	81	50	150
Ethyl ether	1	16.2322	0	20	81	50	150
Furan	1	15.3684	0	20	77	50	150
1,1,2-Trichloro-1,2,2-trifluoroethane	1	20.7849	0	20	104	50	150
Methylene Chloride	1	16.2074	0	20	81	70	130
Acrolein	1	87.3735	0	100	87	50	150
Acrylonitrile	1	16.6673	0	20	83	50	150
Iodomethane	1	16.7922	0	20	84	50	150
Acetone	1	88.1311	0	100	88	50	150
Carbon Disulfide	1	17.4955	0	20	87	50	150
t-Butyl Alcohol	1	82.2076	0	100	82	50	150
n-Hexane	1	14.9001	0	20	75	70	130
Di-isopropyl-ether	1	16.4896	0	20	82	70	130
1,1-Dichloroethene	1	17.4028	0	20	87	70	130
Methyl Acetate	1	15.3344	0	20	77	50	150
Methyl-t-butyl ether	1	17.0123	0	20	85	70	130
1,1-Dichloroethane	1	16.99	0	20	85	70	130
trans-1,2-Dichloroethene	1	18.3418	0	20	92	70	130
Ethyl-t-butyl ether	1	17.3885	0	20	87	70	130
cis-1,2-Dichloroethene	1	18.001	0	20	90	70	130
Bromochloromethane	1	14.5733	0	20	73	70	130
2,2-Dichloropropane	1	14.647	0	20	73	70	130
Ethyl acetate	1	15.7539	0	20	79	50	150
1,4-Dioxane	1	978.8061	0	1000	98	50	150
1,1-Dichloropropene	1	18.1071	0	20	91	70	130
Chloroform	1	17.1583	0	20	86	70	130
Cyclohexane	1	18.9164	0	20	95	70	130
1,2-Dichloroethane	1	18.5192	0	20	93	70	130
2-Butanone	1	21.631	0	20	108	50	150
1,1,1-Trichloroethane	1	18.0623	0	20	90	70	130
Carbon Tetrachloride	1	19.6928	0	20	98	50	150
Vinyl Acetate	1	17.0539	0	20	85	50	150
Bromodichloromethane	1	17.4935	0	20	87	70	130
Methylcyclohexane	1	17.7042	0	20	89	70	130
Dibromomethane	1	18.3965	0	20	92	70	130
1,2-Dichloropropane	1	17.3527	0	20	87	70	130
Trichloroethene	1	19.5141	0	20	98	70	130
Benzene	1	17.5707	0	20	88	70	130
tert-Amyl methyl ether	1	17.0447	0	20	85	70	130
Iso-propylacetate	1	15.5021	0	20	78	70	130
Methyl methacrylate	1	16.5082	0	20	83	70	130
Dibromochloromethane	1	16.7662	0	20	84	70	130
2-Chloroethylvinylether	1	0	0	20	0*	70	130
cis-1,3-Dichloropropene	1	16.1119	0	20	81	70	130
trans-1,3-Dichloropropene	1	15.8538	0	20	79	70	130
Ethyl methacrylate	1	15.3619	0	20	77	70	130
1,1,2-Trichloroethane	1	16.8552	0	20	84	70	130
1,2-Dibromoethane	1	15.9622	0	20	80	70	130
1,3-Dichloropropane	1	16.6942	0	20	83	70	130
4-Methyl-2-Pentanone	1	15.0661	0	20	75	50	150
2-Hexanone	1	15.4079	0	20	77	50	150
Tetrachloroethene	1	18.512	0	20	93	50	150
Toluene	1	16.3181	0	20	82	70	130
1,1,1,2-Tetrachloroethane	1	18.4656	0	20	92	70	130
Chlorobenzene	1	16.7648	0	20	84	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: MBS67265

n-Butyl acrylate	1	13.6038	0	20	68*	70	130
n-Amyl acetate	1	14.4406	0	20	72	70	130
Bromoform	1	14.9858	0	20	75	70	130
Ethylbenzene	1	15.9775	0	20	80	70	130
1,1,2,2-Tetrachloroethane	1	14.4585	0	20	72	70	130
Styrene	1	15.5894	0	20	78	70	130
m&p-Xylenes	1	32.0198	0	40	80	70	130
o-Xylene	1	16.3222	0	20	82	70	130
trans-1,4-Dichloro-2-butene	1	10.2603	0	20	51	50	150
1,3-Dichlorobenzene	1	15.8948	0	20	79	70	130
1,4-Dichlorobenzene	1	15.3741	0	20	77	70	130
1,2-Dichlorobenzene	1	15.3164	0	20	77	70	130
Isopropylbenzene	1	16.1098	0	20	81	70	130
Cyclohexanone	1	70.105	0	100	70	50	150
Camphene	1	2.9075	0	20	15*	70	130
1,2,3-Trichloropropane	1	14.7245	0	20	74	70	130
2-Chlorotoluene	1	15.1791	0	20	76	70	130
p-Ethyltoluene	1	16.835	0	20	84	70	130
4-Chlorotoluene	1	15.208	0	20	76	70	130
n-Propylbenzene	1	15.9397	0	20	80	70	130
Bromobenzene	1	14.4631	0	20	72	70	130
1,3,5-Trimethylbenzene	1	15.2886	0	20	76	70	130
Butyl methacrylate	1	12.9452	0	20	65*	70	130
t-Butylbenzene	1	15.7608	0	20	79	70	130
1,2,4-Trimethylbenzene	1	14.9579	0	20	75	70	130
sec-Butylbenzene	1	15.2158	0	20	76	70	130
4-Isopropyltoluene	1	15.6662	0	20	78	70	130
n-Butylbenzene	1	14.2302	0	20	71	70	130
p-Diethylbenzene	1	14.2312	0	20	71	70	130
1,2,4,5-Tetramethylbenzene	1	14.4867	0	20	72	70	130
1,2-Dibromo-3-Chloropropane	1	13.2625	0	20	66	50	150
Camphor	1	176.1335	0	200	88	20	150
Hexachlorobutadiene	1	11.2676	0	20	56	50	150
1,2,4-Trichlorobenzene	1	13.2448	0	20	66*	70	130
1,2,3-Trichlorobenzene	1	13.2774	0	20	66*	70	130
Naphthalene	1	14.5325	0	20	73	50	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: MBS67265

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3M125837.D	AD02833-001(MSD)	3/2/2018 11:35:00 AM
Duplicate(If applicable):	3M125836.D	AD02833-001(MS)	3/2/2018 11:17:00 AM
Inst Blank(If applicable):			

Method: 8260C Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Chlorodifluoromethane	1	11.1191	11.6071	4.3	30
Dichlorodifluoromethane	1	10.0182	11.6146	15	30
Chloromethane	1	14.5897	15.9783	9.1	30
Bromomethane	1	13.8008	12.1952	12	30
Vinyl Chloride	1	15.807	15.7311	0.48	40
Chloroethane	1	19.1128	18.8917	1.2	30
Trichlorofluoromethane	1	16.2621	14.7836	9.5	30
Ethyl ether	1	16.2322	17.9383	10	30
Furan	1	15.3684	15.1618	1.4	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1	20.7849	21.2965	2.4	30
Methylene Chloride	1	16.2074	17.3342	6.7	30
Acrolein	1	87.3735	93.4672	6.7	30
Acrylonitrile	1	16.6673	17.9873	7.6	30
Iodomethane	1	16.7922	18.3805	9	30
Acetone	1	88.1311	91.6056	3.9	30
Carbon Disulfide	1	17.4955	18.5926	6.1	30
t-Butyl Alcohol	1	82.2076	91.2169	10	30
n-Hexane	1	14.9001	15.6924	5.2	30
Di-isopropyl-ether	1	16.4896	17.8018	7.7	30
1,1-Dichloroethene	1	17.4028	19.0003	8.8	40
Methyl Acetate	1	15.3344	16.7737	9	30
Methyl-t-butyl ether	1	17.0123	17.4827	2.7	30
1,1-Dichloroethane	1	16.99	17.9344	5.4	40
trans-1,2-Dichloroethene	1	18.3418	18.5524	1.1	30
Ethyl-t-butyl ether	1	17.3885	18.0902	4	30
cis-1,2-Dichloroethene	1	18.001	19.0989	5.9	30
Bromochloromethane	1	14.5733	15.407	5.6	30
2,2-Dichloropropane	1	14.647	15.3698	4.8	30
Ethyl acetate	1	15.7539	18.619	17	30
1,4-Dioxane	1	978.8061	973.7199	0.52	30
1,1-Dichloropropene	1	18.1071	18.782	3.7	30
Chloroform	1	17.1583	17.333	1	40
Cyclohexane	1	18.9164	19.3834	2.4	30
1,2-Dichloroethane	1	18.5192	18.2382	1.5	40
2-Butanone	1	21.631	16.8391	25	40
1,1,1-Trichloroethane	1	18.0623	18.73	3.6	30
Carbon Tetrachloride	1	19.6928	20.4673	3.9	40
Vinyl Acetate	1	17.0539	17.6275	3.3	30
Bromodichloromethane	1	17.4935	18.7636	7	30
Methylcyclohexane	1	17.7042	17.6978	0.04	30
Dibromomethane	1	18.3965	19.5438	6	30
1,2-Dichloropropane	1	17.3527	18.065	4	30
Trichloroethene	1	19.5141	20.0085	2.5	40
Benzene	1	17.5707	18.1289	3.1	40
tert-Amyl methyl ether	1	17.0447	17.5891	3.1	30
Iso-propylacetate	1	15.5021	15.6394	0.88	30
Methyl methacrylate	1	16.5082	15.3348	7.4	30
Dibromochloromethane	1	16.7662	16.4995	1.6	30
2-Chloroethylvinylether	1	0	0	NA	30
cis-1,3-Dichloropropene	1	16.1119	15.8079	1.9	30
trans-1,3-Dichloropropene	1	15.8538	15.1108	4.8	30
Ethyl methacrylate	1	15.3619	15.6823	2.1	30
1,1,2-Trichloroethane	1	16.8552	16.6798	1	30
1,2-Dibromoethane	1	15.9622	16.2995	2.1	30
1,3-Dichloropropane	1	16.6942	17.3033	3.6	30
4-Methyl-2-Pentanone	1	15.0661	15.2969	1.5	30
2-Hexanone	1	15.4079	16.8578	9	30
Tetrachloroethene	1	18.512	22.3436	19	40
Toluene	1	16.3181	16.0775	1.5	40
1,1,1,2-Tetrachloroethane	1	18.4656	17.8666	3.3	30
Chlorobenzene	1	16.7648	17.3738	3.6	40
n-Butyl acrylate	1	13.6038	14.1351	3.8	30
n-Amyl acetate	1	14.4406	15.3653	6.2	30

Form3
RPD Data Laboratory Limits
QC Batch: MBS67265

Bromoform	1	14.9858	16.31	8.5	30
Ethylbenzene	1	15.9775	16.747	4.7	30
1,1,2,2-Tetrachloroethane	1	14.4585	14.6719	1.5	30
Styrene	1	15.5894	16.3656	4.9	30
m&p-Xylenes	1	32.0198	34.6322	7.8	30
o-Xylene	1	16.3222	17.4869	6.9	30
trans-1,4-Dichloro-2-butene	1	10.2603	10.9597	6.6	30
1,3-Dichlorobenzene	1	15.8948	16.8334	5.7	30
1,4-Dichlorobenzene	1	15.3741	16.3982	6.4	40
1,2-Dichlorobenzene	1	15.3164	16.6063	8.1	40
Isopropylbenzene	1	16.1098	16.9061	4.8	30
Cyclohexanone	1	70.105	82.3892	16	30
Camphene	1	2.9075	3.5495	20	30
1,2,3-Trichloropropane	1	14.7245	15.6241	5.9	30
2-Chlorotoluene	1	15.1791	15.8859	4.6	30
p-Ethyltoluene	1	16.835	16.5938	1.4	30
4-Chlorotoluene	1	15.208	16.1415	6	30
n-Propylbenzene	1	15.9397	16.6678	4.5	40
Bromobenzene	1	14.4631	15.195	4.9	30
1,3,5-Trimethylbenzene	1	15.2886	19.4449	24	30
Butyl methacrylate	1	12.9452	14.7659	13	30
t-Butylbenzene	1	15.7608	17.5078	11	30
1,2,4-Trimethylbenzene	1	14.9579	15.601	4.2	30
sec-Butylbenzene	1	15.2158	16.1472	5.9	40
4-Isopropyltoluene	1	15.6662	16.4179	4.7	30
n-Butylbenzene	1	14.2302	15.2422	6.9	30
p-Diethylbenzene	1	14.2312	16.0226	12	30
1,2,4,5-Tetramethylbenzene	1	14.4867	15.1867	4.7	30
1,2-Dibromo-3-Chloropropane	1	13.2625	12.4297	6.5	30
Camphor	1	176.1335	169.2207	4	30
Hexachlorobutadiene	1	11.2676	11.891	5.4	30
1,2,4-Trichlorobenzene	1	13.2448	13.5476	2.3	30
1,2,3-Trichlorobenzene	1	13.2774	13.5097	1.7	30
Naphthalene	1	14.5325	14.5349	0.02	30

* - Indicates outside of limits

NA - Both concentrations=0... no result can be calculated

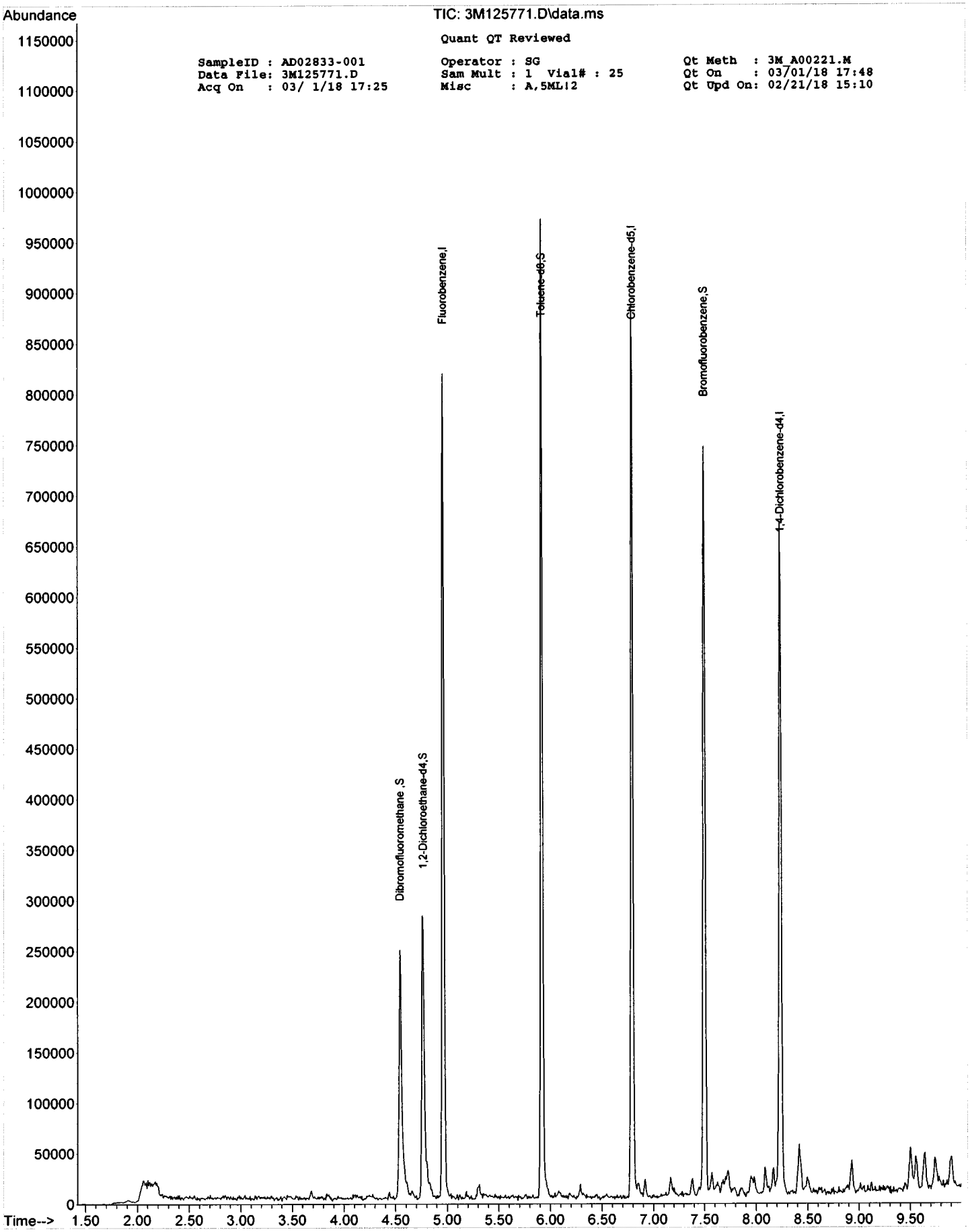
Quantitation Report (QT Reviewed)

SampleID : AD02833-001 Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125771.D Sam Mult : 1 Vial# : 25 Qt On : 03/01/18 17:48
Acq On : 03/ 1/18 17:25 Misc : A,5ML!2 Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-01-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.963	96	468810	30.00	ug/l	0.02
52) Chlorobenzene-d5	6.795	117	389254	30.00	ug/l	0.02
70) 1,4-Dichlorobenzene-d4	8.237	152	160286	30.00	ug/l	0.02
System Monitoring Compounds						
37) Dibromofluoromethane	4.543	111	135495	29.63	ug/l	0.02
Spiked Amount 30.000			Recovery = 98.77%			
39) 1,2-Dichloroethane-d4	4.765	67	90463	28.23	ug/l	0.02
Spiked Amount 30.000			Recovery = 94.10%			
66) Toluene-d8	5.918	98	476190	28.61	ug/l	0.02
Spiked Amount 30.000			Recovery = 95.37%			
76) Bromofluorobenzene	7.498	174	180410	30.61	ug/l	0.02
Spiked Amount 30.000			Recovery = 102.03%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125771.D\data.ms
Quant QT Reviewed
SampleID : AD02833-001
Data File: 3M125771.D
Acq On : 03/ 1/18 17:25
Operator : SG
Sam Mult : 1 Vial# : 25
Misc : A,5ML!2
Qt Meth : 3M_A00221.M
Qt On : 03/01/18 17:48
Qt Upd On: 02/21/18 15:10
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
Fluorobenzene,I
Toluene-d8,S
Chlorobenzene-d5,I
Bromofluorobenzene,S
1,4-Dichlorobenzene-d4,I
Time-->

SampleID : AD02833-001(MS) Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125836.D Sam Mult : 1 Vial# : 18 Qt On : 03/02/18 11:47
Acq On : 03/ 2/18 11:17 Misc : A,5ML!2 Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-02-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.977	96	454116	30.00	ug/l	0.04
52) Chlorobenzene-d5	6.809	117	387803	30.00	ug/l	0.04
70) 1,4-Dichlorobenzene-d4	8.256	152	169040	30.00	ug/l	0.04
System Monitoring Compounds						
37) Dibromofluoromethane	4.562	111	128555	29.02	ug/l	0.04
Spiked Amount 30.000			Recovery = 96.73%			
39) 1,2-Dichloroethane-d4	4.778	67	89349	28.79	ug/l	0.04
Spiked Amount 30.000			Recovery = 95.97%			
66) Toluene-d8	5.938	98	465205	28.05	ug/l	0.04
Spiked Amount 30.000			Recovery = 93.50%			
76) Bromofluorobenzene	7.518	174	182729	29.40	ug/l	0.04
Spiked Amount 30.000			Recovery = 98.00%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.628	51	75008	11.6071	ug/l	40
6) Dichlorodifluoromethane	1.612	85	11160	11.6146	ug/l	76
7) Chloromethane	1.762	50	34283	15.9783	ug/l	76
8) Bromomethane	2.147	94	21838	12.1952	ug/l	75
9) Vinyl Chloride	1.845	62	36658	15.7311	ug/l	98
10) Chloroethane	2.225	64	32471	18.8917	ug/l	82
11) Trichlorofluoromethane	2.436	101	69127	14.7836	ug/l	97
12) Ethyl ether	2.670	59	57818	17.9383	ug/l	84
13) Furan	2.706	39	118236	15.1618	ug/l	94
14) 1,1,2-Trichloro-1,2,2-...	2.856	101	39092	21.2965	ug/l	96
15) Methylene Chloride	3.265	84	66363	17.3342	ug/l	91
16) Acrolein	2.784	56	55784	93.4672	ug/l	92
17) Acrylonitrile	3.475	53	23723	17.9873	ug/l	87
18) Iodomethane	3.006	142	72183	18.3805	ug/l	99
19) Acetone	2.910	43	124577	91.6056	ug/l	100
20) Carbon Disulfide	3.066	76	144509	18.5926	ug/l	100
21) t-Butyl Alcohol	3.331	59	38698	91.2169	ug/l	86
22) n-Hexane	3.703	57	23990m	15.6924	ug/l	
23) Di-isopropyl-ether	3.859	45	217721	17.8018	ug/l	100
24) 1,1-Dichloroethene	2.874	61	98870	19.0003	ug/l	93
25) Methyl Acetate	3.168	43	88452	16.7737	ug/l	100
26) Methyl-t-butyl ether	3.475	73	194132	17.4827	ug/l	65
27) 1,1-Dichloroethane	3.841	63	114450	17.9344	ug/l	96
28) trans-1,2-Dichloroethene	3.493	96	60902	18.5524	ug/l	88
29) Ethyl-t-butyl ether	4.118	59	236575	18.0902	ug/l	93
30) cis-1,2-Dichloroethene	4.250	61	127119	19.0989	ug/l	88
31) Bromochloromethane	4.418	49	56473	15.4070	ug/l	90
32) 2,2-Dichloropropane	4.256	77	73796	15.3698	ug/l	92
33) Ethyl acetate	4.274	43	88497m	18.6190	ug/l	
34) 1,4-Dioxane	5.427	88	43083	973.7199	ug/l	98
35) 1,1-Dichloropropene	4.676	75	89001	18.7820	ug/l	92
36) Chloroform	4.454	83	124075	17.3330	ug/l	88
38) Cyclohexane	4.616	56	50649	19.3834	ug/l	94
40) 1,2-Dichloroethane	4.826	62	128386	18.2382	ug/l	91
41) 2-Butanone	4.256	43	30962m	16.8391	ug/l	
42) 1,1,1-Trichloroethane	4.580	97	112492	18.7300	ug/l	99
43) Carbon Tetrachloride	4.688	117	87780	20.4673	ug/l	92
44) Vinyl Acetate	3.853	43	145483	17.6275	ug/l	100
45) Bromodichloromethane	5.505	83	98261	18.7636	ug/l	89
46) Methylcyclohexane	5.325	83	36325	17.6978	ug/l	91
47) Dibromomethane	5.433	174	61729	19.5438	ug/l	87
48) 1,2-Dichloropropane	5.349	63	61309	18.0650	ug/l	94
49) Trichloroethene	5.205	130	76163	20.0085	ug/l	88
50) Benzene	4.814	78	234330	18.1289	ug/l	100
51) tert-Amyl methyl ether	4.856	73	204539	17.5891	ug/l	74
53) Iso-propylacetate	4.808	43	165388	15.6394	ug/l	96
54) Methyl methacrylate	5.373	41	90402m	15.3348	ug/l	
55) Dibromochloromethane	6.460	129	72391	16.4995	ug/l	95
57) cis-1,3-Dichloropropene	5.770	75	100161	15.8079	ug/l	88
58) trans-1,3-Dichloropropene	6.088	75	96014	15.1108	ug/l	96
59) Ethyl methacrylate	6.106	41	91342	15.6823	ug/l	74
60) 1,1,2-Trichloroethane	6.214	97	63714	16.6798	ug/l	89
61) 1,2-Dibromoethane	6.550	107	67679	16.2995	ug/l	90
62) 1,3-Dichloropropane	6.316	76	115791	17.3033	ug/l	94
63) 4-Methyl-2-Pentanone	5.842	43	78920	15.2969	ug/l	86
64) 2-Hexanone	6.328	43	58943	16.8578	ug/l	87
65) Tetrachloroethene	6.304	164	57232	22.3436	ug/l	89
67) Toluene	5.974	92	143223	16.0775	ug/l	98
68) 1,1,1,2-Tetrachloroethane	6.869	133	65565	17.8666	ug/l	69

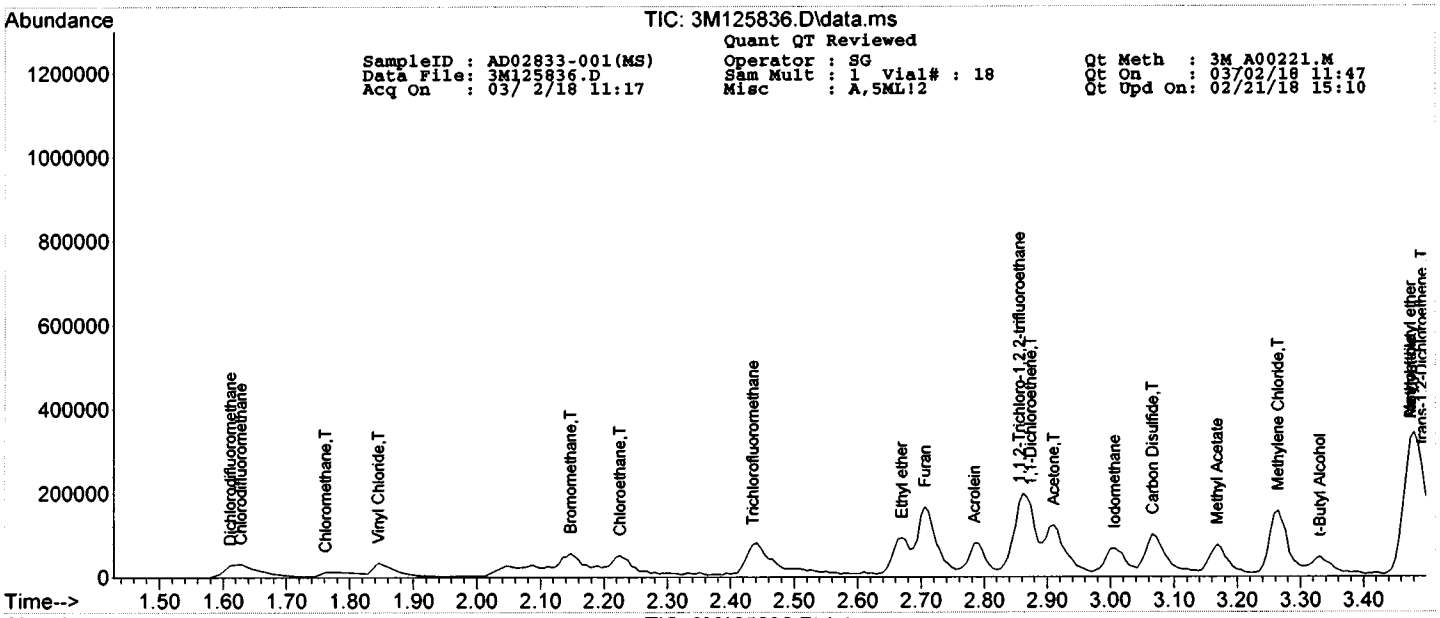
Quantitation Report (QT Reviewed)

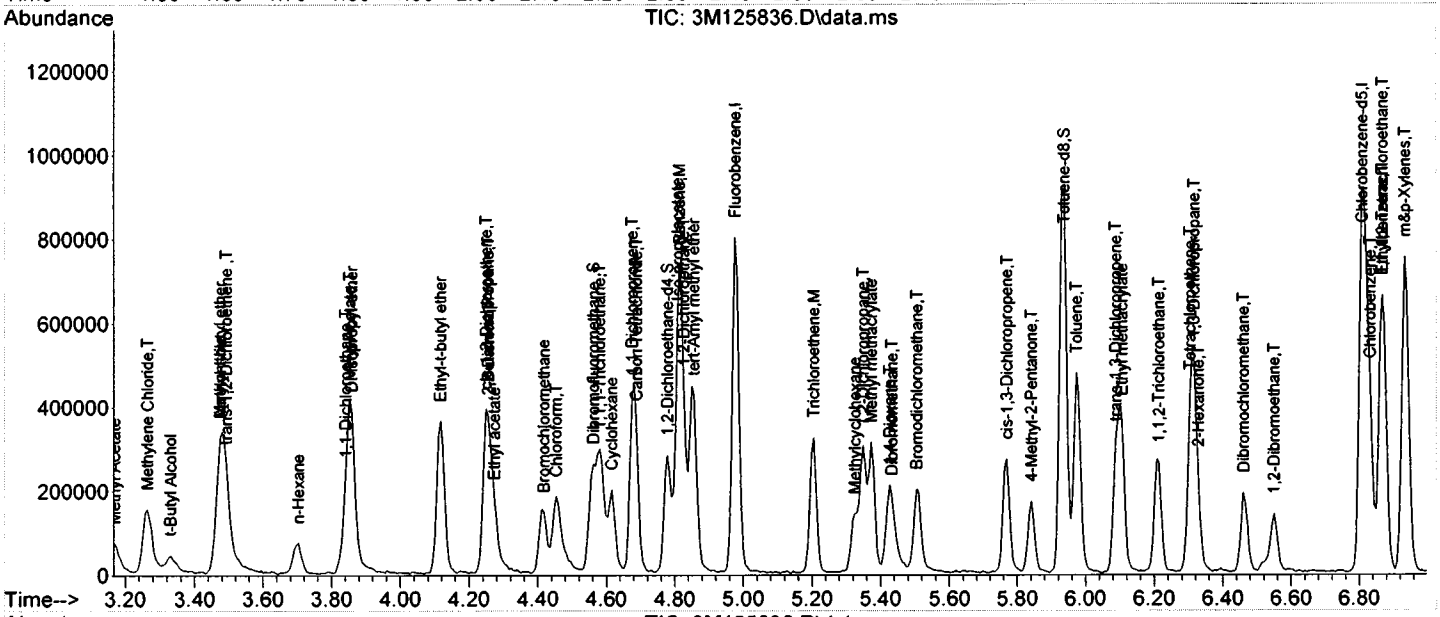
SampleID : AD02833-001(MS) Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125836.D Sam Mult : 1 Vial# : 18 Qt On : 03/02/18 11:47
Acq On : 03/ 2/18 11:17 Misc : A,5ML!2 Qt Upd On: 02/21/18 15:10

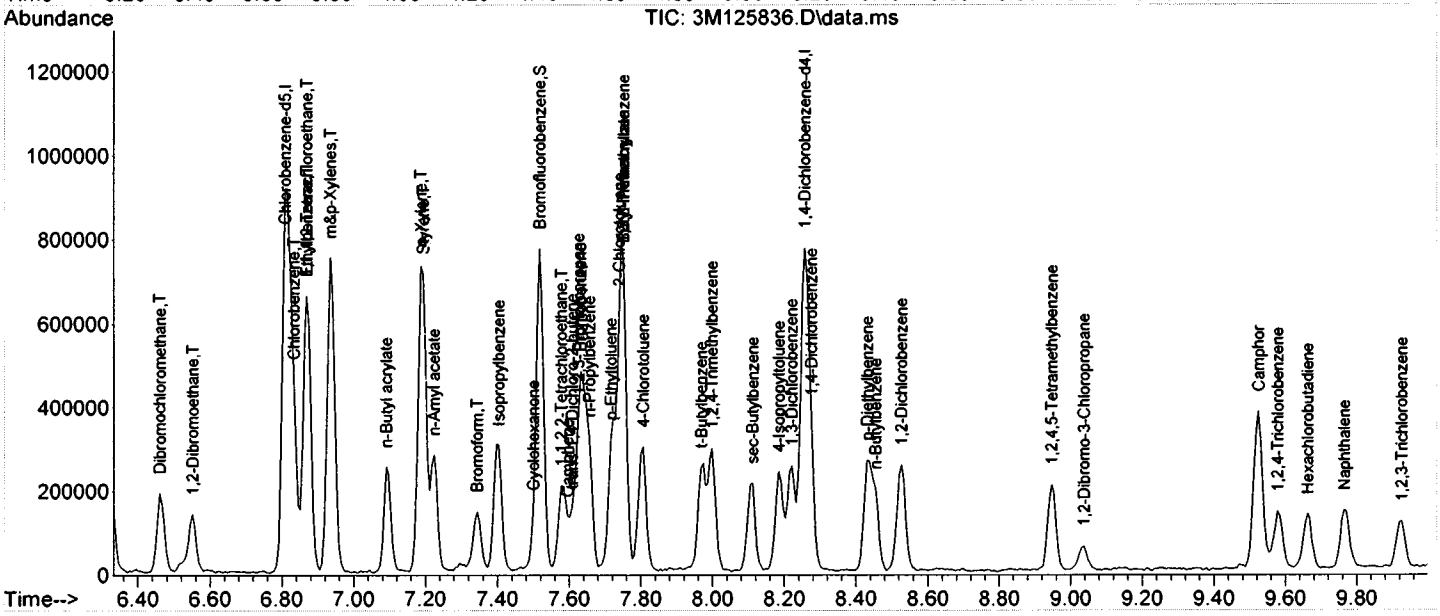
Data Path : G:\GcMsData\2018\GCMS_3\Data\03-02-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69)	Chlorobenzene	6.833	112	166822	17.3738	ug/l	96
71)	n-Butyl acrylate	7.091	55	132322	14.1351	ug/l	91
72)	n-Amyl acetate	7.223	43	125305	15.3653	ug/l	83
73)	Bromoform	7.343	173	52420	16.3100	ug/l	99
74)	Ethylbenzene	6.869	106	49248	16.7470	ug/l	72
75)	1,1,2,2-Tetrachloroethane	7.578	83	70206	14.6719	ug/l	90
77)	Styrene	7.193	104	156998	16.3656	ug/l	96
78)	m&p-Xylenes	6.935	106	170946	34.6322	ug/l	94
79)	o-Xylene	7.187	106	87236	17.4869	ug/l	75
80)	trans-1,4-Dichloro-2-b...	7.608	53	22136	10.9597	ug/l	49
81)	1,3-Dichlorobenzene	8.220	146	94384	16.8334	ug/l	89
82)	1,4-Dichlorobenzene	8.274	146	95697	16.3982	ug/l	97
83)	1,2-Dichlorobenzene	8.527	146	97640	16.6063	ug/l	91
84)	Isopropylbenzene	7.403	105	169303	16.9061	ug/l	93
85)	Cyclohexanone	7.500	55	15661	82.3892	ug/l	89
86)	Camphene	7.596	93	11063	3.5495	ug/l	96
87)	1,2,3-Trichloropropane	7.626	75	96302	15.6241	ug/l	97
88)	2-Chlorotoluene	7.740	91	96152	15.8859	ug/l	95
89)	p-Ethyltoluene	7.716	105	169541	16.5938	ug/l	80
90)	4-Chlorotoluene	7.806	91	103272	16.1415	ug/l	91
91)	n-Propylbenzene	7.656	91	166507	16.6678	ug/l	95
92)	Bromobenzene	7.632	77	149982	15.1950	ug/l	96
93)	1,3,5-Trimethylbenzene	7.752	105	125519	19.4449	ug/l	93
94)	Butyl methacrylate	7.752	41	101535	14.7659	ug/l	90
95)	t-Butylbenzene	7.968	119	121691	17.5078	ug/l	85
96)	1,2,4-Trimethylbenzene	7.998	105	135955	15.6010	ug/l	82
97)	sec-Butylbenzene	8.112	105	124469	16.1472	ug/l	97
98)	4-Isopropyltoluene	8.184	119	112636	16.4179	ug/l	95
99)	n-Butylbenzene	8.455	91	113804	15.2422	ug/l	89
100)	p-Diethylbenzene	8.431	119	73497	16.0226	ug/l	91
101)	1,2,4,5-Tetramethylben...	8.947	119	104579	15.1867	ug/l	91
102)	1,2-Dibromo-3-Chloropr...	9.037	157	14708	12.4297	ug/l	85
103)	Camphor	9.524	95	88591	169.2207	ug/l	94
104)	Hexachlorobutadiene	9.662	225	31701	11.8910	ug/l	97
105)	1,2,4-Trichlorobenzene	9.578	180	43571	13.5476	ug/l	96
106)	1,2,3-Trichlorobenzene	9.926	180	37624	13.5097	ug/l	94
107)	Naphthalene	9.764	128	112542	14.5349	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125836.D\data.ms
Quant QT Reviewed
SampleID : AD02833-001(MS)
Data File: 3M125836.D
Acq On : 03/ 2/18 11:17
Operator : SG
Sam Mult : 1 Vial# : 18
Misc : A,5ML!2
Qt Meth : 3M_A00221.M
Qt On : 03/02/18 11:47
Qt Upd On: 02/21/18 15:10
Dichlorodifluoromethane
Chloromethane,T
Vinyl Chloride,T
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane
Ethyl ether
Furan
Acrolein
1,1,2-Trichloro-1,2,2-trifluoroethane
1,1-Dichloroethene,T
Acetone,T
Iodomethane
Carbon Disulfide,T
Methyl Acetate
Methylene Chloride,T
t-Butyl Alcohol
Time-->


Abundance
TIC: 3M125836.D\data.ms
Methylene Chloride,T
t-Butyl Alcohol
n-Hexane
Ethyl-t-butyl ether
Bromochloromethane
Chloroform,T
Cyclohexane
1,2-Dichloroethane-d4,S
tert-Amyl methyl ether
Fluorobenzene,I
Trichloroethene,M
Methylcyclohexane
Bromodichloromethane,T
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene,T
Toluene-d8,S
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Ethylbenzene,T
m&p-Xylenes,T
Time-->


Abundance
TIC: 3M125836.D\data.ms
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,T
Ethylbenzene,T
m&p-Xylenes,T
n-Butyl acrylate
n-Amyl acetate
Bromoform,T
Isopropylbenzene
Cyclohexanone
Bromofluorobenzene,S
1,1,2,2-Tetrachloroethane,T
n-Propylbenzene
p-Ethyltoluene
4-Chlorotoluene
t-Butylbenzene
1,2,4-Trimethylbenzene
sec-Butylbenzene
4-Isopropyltoluene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
1,4-Dichlorobenzene-d4,I
n-Butylbenzene
1,2-Dichlorobenzene
1,2,4,5-Tetramethylbenzene
1,2-Dibromo-3-Chloropropane
Camphor
1,2,4-Trichlorobenzene
Hexachlorobutadiene
Naphthalene
1,2,3-Trichlorobenzene
Time-->

Sample ID : AD02833-001(MSD) Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125837.D Sam Mult : 1 Vial# : 19 Qt On : 03/02/18 11:47
Acq On : 03/ 2/18 11:35 Misc : A,5ML!2 Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-02-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
4) Fluorobenzene	4.976	96	475433	30.00	ug/l	0.04
52) Chlorobenzene-d5	6.815	117	394471	30.00	ug/l	0.04
70) 1,4-Dichlorobenzene-d4	8.256	152	183197	30.00	ug/l	0.04
System Monitoring Compounds						
37) Dibromofluoromethane	4.562	111	136023	29.33	ug/l	0.04
Spiked Amount 30.000			Recovery = 97.77%			
39) 1,2-Dichloroethane-d4	4.778	67	93597	28.80	ug/l	0.04
Spiked Amount 30.000			Recovery = 96.00%			
66) Toluene-d8	5.938	98	495800	29.39	ug/l	0.04
Spiked Amount 30.000			Recovery = 97.97%			
76) Bromofluorobenzene	7.523	174	188476	27.98	ug/l	0.05
Spiked Amount 30.000			Recovery = 93.27%			
Target Compounds						Qvalue
5) Chlorodifluoromethane	1.614	51	75227	11.1191	ug/l	38
6) Dichlorodifluoromethane	1.597	85	10078	10.0182	ug/l	89
7) Chloromethane	1.764	50	32773	14.5897	ug/l	90
8) Bromomethane	2.147	94	25756	13.8008	ug/l	89
9) Vinyl Chloride	1.847	62	38564	15.8070	ug/l	86
10) Chloroethane	2.225	64	34393	19.1128	ug/l	94
11) Trichlorofluoromethane	2.442	101	79610	16.2621	ug/l	77
12) Ethyl ether	2.664	59	54775	16.2322	ug/l	74
13) Furan	2.712	39	125473	15.3684	ug/l	91
14) 1,1,2-Trichloro-1,2,2-...	2.856	101	39944	20.7849	ug/l	99
15) Methylene Chloride	3.259	84	64962	16.2074	ug/l	89
16) Acrolein	2.784	56	54595	87.3735	ug/l	95
17) Acrylonitrile	3.475	53	23014	16.6673	ug/l	90
18) Iodomethane	3.006	142	69041	16.7922	ug/l	97
19) Acetone	2.910	43	125478	88.1311	ug/l	99
20) Carbon Disulfide	3.066	76	142365	17.4955	ug/l	100
21) t-Butyl Alcohol	3.331	59	36513	82.2076	ug/l	73
22) n-Hexane	3.697	57	23848	14.9001	ug/l	75
23) Di-isopropyl-ether	3.853	45	211139	16.4896	ug/l	98
24) 1,1-Dichloroethene	2.868	61	94808	17.4028	ug/l	88
25) Methyl Acetate	3.168	43	84658	15.3344	ug/l	100
26) Methyl-t-butyl ether	3.475	73	197776	17.0123	ug/l	65
27) 1,1-Dichloroethane	3.841	63	113513	16.9900	ug/l	93
28) trans-1,2-Dichloroethene	3.493	96	63037	18.3418	ug/l	87
29) Ethyl-t-butyl ether	4.117	59	238074	17.3885	ug/l	95
30) cis-1,2-Dichloroethene	4.250	61	125436	18.0010	ug/l	83
31) Bromochloromethane	4.418	49	55925	14.5733	ug/l	90
32) 2,2-Dichloropropane	4.256	77	73627	14.6470	ug/l	93
33) Ethyl acetate	4.274	43	78394m	15.7539	ug/l	
34) 1,4-Dioxane	5.421	88	45341	978.8061	ug/l	92
35) 1,1-Dichloropropene	4.676	75	89831	18.1071	ug/l	93
36) Chloroform	4.454	83	128590	17.1583	ug/l	89
38) Cyclohexane	4.616	56	51749	18.9164	ug/l	97
40) 1,2-Dichloroethane	4.826	62	136484	18.5192	ug/l	95
41) 2-Butanone	4.262	43	41640m	21.6310	ug/l	
42) 1,1,1-Trichloroethane	4.580	97	113574	18.0623	ug/l	99
43) Carbon Tetrachloride	4.682	117	88423	19.6928	ug/l	84
44) Vinyl Acetate	3.853	43	147356	17.0539	ug/l	100
45) Bromodichloromethane	5.511	83	95910	17.4935	ug/l	95
46) Methylcyclohexane	5.325	83	38044	17.7042	ug/l	92
47) Dibromomethane	5.433	174	60833	18.3965	ug/l	96
48) 1,2-Dichloropropane	5.355	63	61656	17.3527	ug/l	95
49) Trichloroethene	5.205	130	77768	19.5141	ug/l	74
50) Benzene	4.814	78	237776	17.5707	ug/l	100
51) tert-Amyl methyl ether	4.856	73	207512	17.0447	ug/l	74
53) Iso-propylacetate	4.814	43	166755	15.5021	ug/l	96
54) Methyl methacrylate	5.373	41	98993m	16.5082	ug/l	
55) Dibromochloromethane	6.466	129	74826	16.7662	ug/l	97
57) cis-1,3-Dichloropropene	5.769	75	103843	16.1119	ug/l	91
58) trans-1,3-Dichloropropene	6.094	75	102467	15.8538	ug/l	96
59) Ethyl methacrylate	6.106	41	91014	15.3619	ug/l	70
60) 1,1,2-Trichloroethane	6.214	97	65491	16.8552	ug/l	88
61) 1,2-Dibromoethane	6.550	107	67418	15.9622	ug/l	91
62) 1,3-Dichloropropane	6.316	76	113636	16.6942	ug/l	97
63) 4-Methyl-2-Pentanone	5.841	43	79066	15.0661	ug/l	75
64) 2-Hexanone	6.334	43	54800	15.4079	ug/l	97
65) Tetrachloroethene	6.310	164	48233	18.5120	ug/l	94
67) Toluene	5.974	92	147866	16.3181	ug/l	97
68) 1,1,1,2-Tetrachloroethane	6.869	133	68928	18.4656	ug/l	77

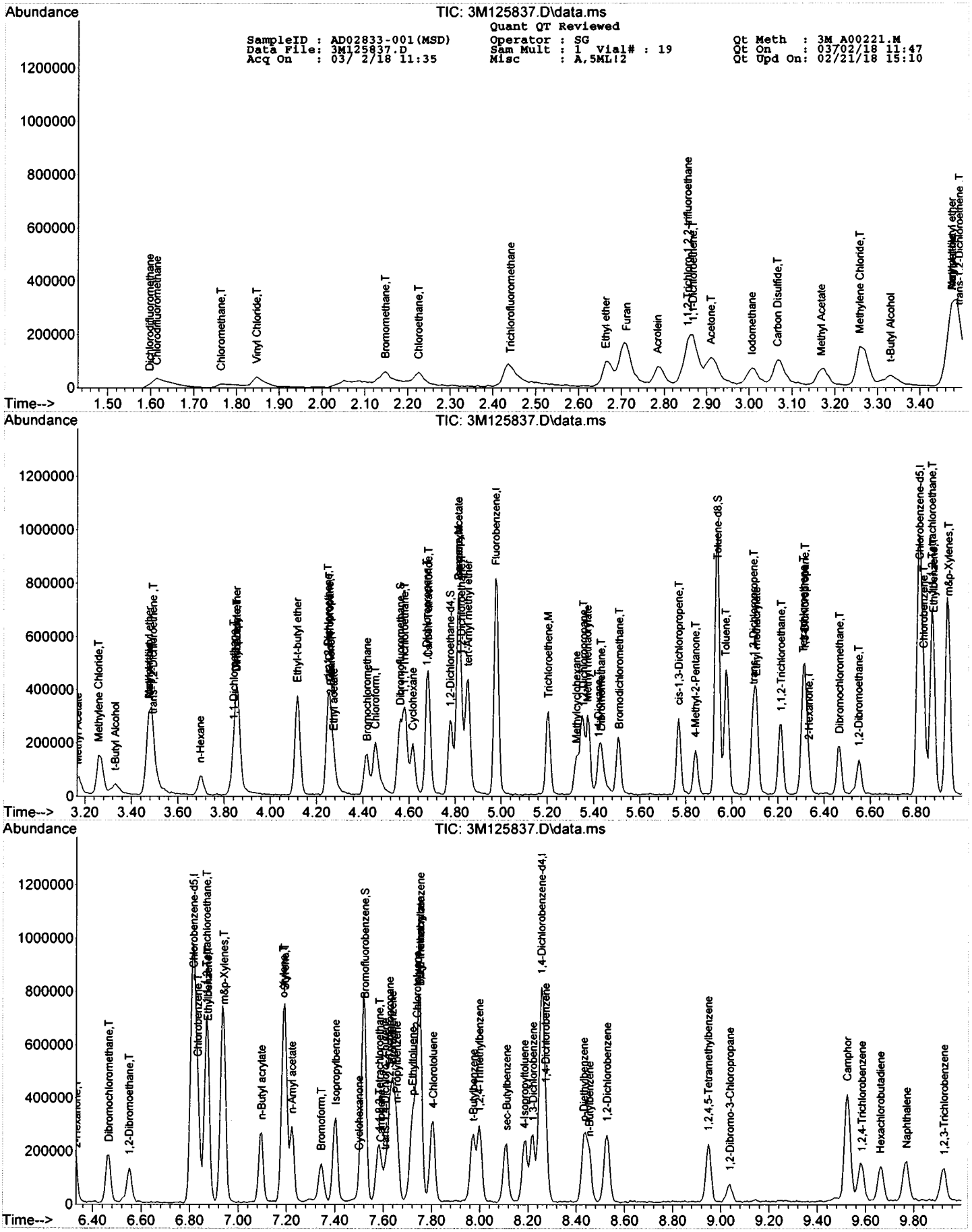
Quantitation Report (QT Reviewed)

SampleID : AD02833-001(MSD) Operator : SG Qt Meth : 3M_A00221.M
Data File: 3M125837.D Sam Mult : 1 Vial# : 19 Qt On : 03/02/18 11:47
Acq On : 03/ 2/18 11:35 Misc : A,5ML!2 Qt Upd On: 02/21/18 15:10

Data Path : G:\GcMsData\2018\GCMS_3\Data\03-02-18\
Qt Path : G:\GcMsData\2018\GCMS_3\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69)	Chlorobenzene	6.833	112	163742	16.7648	ug/l	94
71)	n-Butyl acrylate	7.097	55	138014	13.6038	ug/l	94
72)	n-Amyl acetate	7.223	43	127627	14.4406	ug/l	84
73)	Bromoform	7.343	173	52198	14.9858	ug/l	89
74)	Ethylbenzene	6.875	106	50920	15.9775	ug/l	76
75)	1,1,2,2-Tetrachloroethane	7.584	83	74979	14.4585	ug/l	93
77)	Styrene	7.193	104	162076	15.5894	ug/l	100
78)	m&p-Xylenes	6.941	106	171288	32.0198	ug/l	87
79)	o-Xylene	7.187	106	88245	16.3222	ug/l	75
80)	trans-1,4-Dichloro-2-b...	7.608	53	22459	10.2603	ug/l	52
81)	1,3-Dichlorobenzene	8.220	146	96585	15.8948	ug/l	88
82)	1,4-Dichlorobenzene	8.274	146	97235	15.3741	ug/l	96
83)	1,2-Dichlorobenzene	8.527	146	97598	15.3164	ug/l	94
84)	Isopropylbenzene	7.403	105	174839	16.1098	ug/l	93
85)	Cyclohexanone	7.499	55	14442	70.1050	ug/l	96
86)	Camphene	7.590	93	9821	2.9075	ug/l	93
87)	1,2,3-Trichloropropane	7.626	75	98358	14.7245	ug/l	98
88)	2-Chlorotoluene	7.740	91	99568	15.1791	ug/l	93
89)	p-Ethyltoluene	7.722	105	186411	16.8350	ug/l	75
90)	4-Chlorotoluene	7.806	91	105448	15.2080	ug/l	93
91)	n-Propylbenzene	7.656	91	172569	15.9397	ug/l	95
92)	Bromobenzene	7.638	77	154714	14.4631	ug/l	95
93)	1,3,5-Trimethylbenzene	7.752	105	106955	15.2886	ug/l	71
94)	Butyl methacrylate	7.752	41	96470	12.9452	ug/l	94
95)	t-Butylbenzene	7.974	119	118723	15.7608	ug/l	86
96)	1,2,4-Trimethylbenzene	7.998	105	141267	14.9579	ug/l	89
97)	sec-Butylbenzene	8.112	105	127112	15.2158	ug/l	100
98)	4-Isopropyltoluene	8.184	119	116480	15.6662	ug/l	94
99)	n-Butylbenzene	8.455	91	115146	14.2302	ug/l	88
100)	p-Diethylbenzene	8.431	119	70747	14.2312	ug/l	91
101)	1,2,4,5-Tetramethylben...	8.947	119	108113	14.4867	ug/l	89
102)	1,2-Dibromo-3-Chloropr...	9.037	157	17007	13.2625	ug/l	69
103)	Camphor	9.524	95	99914	176.1335	ug/l	86
104)	Hexachlorobutadiene	9.662	225	32555	11.2676	ug/l	90
105)	1,2,4-Trichlorobenzene	9.584	180	46171	13.2448	ug/l	94
106)	1,2,3-Trichlorobenzene	9.926	180	40074	13.2774	ug/l	94
107)	Naphthalene	9.770	128	121947	14.5325	ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 3M125837.D\data.ms
Quant QT Reviewed
SampleID : AD02833-001(MSD)
Data File: 3M125837.D
Acq On : 03/ 2/18 11:35
Operator : SG
Sam Mult : 1 Vial# : 19
Misc : A,5ML!2
Qt Meth : 3M_A00221.M
Qt On : 03702/18 11:47
Qt Upd On: 02/21/18 15:10
Time-->

GC/MS Volatile Data
Logbook Data

Hampton-Clarke, Inc.

Volatile Sample Batching – GC/MS 3

3.1.18		3.2.18		3.2.18		3.2.18 CD	
Batch #:	67259	Batch #:	67264	Batch #:	67265	Batch #:	67281
MATRIX:	MeOH	MATRIX:	MeOH	MATRIX:	AQ6IB	MATRIX:	AQ6IB
MBS:	3m125801	MBS:	3m125827	MBS:	3m125828	MBS:	3m125866
MS:	AD02736.011	MS:	AD02736.008	MS:	AD02833.001	MS:	AD02790.004
MSD:	-011	MSD:	-008	MSD:	-001	MSD:	-004
1.	AD02736.001	1.	AD02836.008	1.	AD02834.001	1.	AD02840.007
2.	-004	2.	AD02835.001	2.	-002	2.	-008
3.	-005	3.		3.	AD02813.002	3.	AD02790.001
4.	-006	4.		4.	-003	4.	-002
5.	-007	5.		5.	-004	5.	-003
6.	-009	6.		6.	AD02775.001	6.	-004
7.		7.		7.	AD02780.003	7.	-005
8.		8.		8.	-006	8.	-006
9.		9.		9.	AD02872.001	9.	-007
10.		10.		10.	~~AD02835.001~~	10.	-008
11.		11.		11.	~~AD02836.002~~	11.	-009
12.		12.		12.	AD02799.001	12.	-010
13.		13.		13.	-002	13.	-011
14.		14.		14.		14.	AD02849.001
15.		15.		15.		15.	-002
16.		16.		16.		16.	-003
17.		17.		17.		17.	-007
18.		18.		18.		18.	-008
19.		19.		19.		19.	AD02837.004
20.		20.		20.		20.	-005

3.5.18		3.5.18		3.6.18		3.6.18	
Batch #:	67285	Batch #:	67299	Batch #:	67302	Batch #:	67304
MATRIX:	AQ6IB	MATRIX:	AQ6IB	MATRIX:	AQ6IB	MATRIX:	MeOH
MBS:	3m125932	MBS:	3m125966	MBS:	3m126005	MBS:	3m126014
MS:	AD02840.004	MS:	AD02697.002	MS:	AD02848.003	MS:	AD02898.011
MSD:	-004	MSD:	-002	MSD:	-003	MS/MSD:	-011
1.	AD02837.001	1.	AD02837.002	1.	AD02794.015	1.	AD02894.002
2.	AD02843.004	2.	-003	2.	-016	2.	
3.	AD02838.001	3.	AD02908.001	3.	AD02865.015	3.	
4.	AD02849.005	4.	AD02838.002	4.	-016	4.	
5.	-004	5.	AD02876.002	5.	AD02894.001	5.	
6.	-006	6.	-003	6.	-003	6.	
7.	AD02853.001	7.		7.		7.	
8.	-002	8.		8.		8.	
9.	-003	9.		9.		9.	
10.	-004	10.		10.		10.	
11.	-005	11.		11.		11.	
12.	-006	12.		12.		12.	
13.	-007	13.		13.		13.	
14.	-008	14.		14.		14.	
15.	-009	15.		15.		15.	
16.	-010	16.		16.		16.	
17.	-011	17.		17.		17.	
18.	AD02840.004	18.		18.		18.	
19.	-005	19.		19.		19.	
20.		20.		20.		20.	



1-1-3M125263

RUN LOG

Instrument: GCMS 3 Year 2018
Analyst: SG

8022605 0135

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3M125263.	BFB TUNE		V-267203,V-267159,V-271221	WP 02/22/18						02/21 07:06
3M125265.	BLK	IsCnAnc	-	WP 02/22/18		Aqueous	1	1	624\826	02/21 07:24
3M125267.	CAL @ 500 PPB		B-24589	WP 02/22/18		Aqueous	1	1	624\826	02/21 07:58
3M125269.	CAL @ 250 PPB		B-24589	WP 02/22/18		Aqueous	1	1	624\826	02/21 08:31
3M125271.	CAL @ 100 PPB		B-24589	WP 02/22/18		Aqueous	1	1	624\826	02/21 09:05
3M125273.	CAL @ 50 PPB		B-24589	WP 02/22/18		Aqueous	1	1	624\826	02/21 09:38
3M125275.	CAL @ 20 PPB		B-24589	WP 02/22/18		Aqueous	1	1	624\826	02/21 10:12
3M125281.	CAL @ 0.5 PPB		B-24589	WP 02/22/18		Aqueous	1	1	624\826	02/21 11:52
3M125282.	CAL @ 1 PPB		B-24589	WP 02/22/18		Aqueous	1	1	624\826	02/21 12:09
3M125283.	CAL @ 5 PPB		B-24589	WP 02/22/18		Aqueous	1	1	624\826	02/21 12:25
3M125284.	CAL @ 10 PPB		B-24589	WP 02/22/18		Aqueous	1	1	624\826	02/21 12:42
3M125287.	ICV		V-274148	WP 02/22/18		Aqueous	1	1	624\826	02/21 13:32
3M125289.	DAILY BLANK		OK	WP 02/22/18		Methano	1	1	8260C	02/21 14:06
3M125290.	DAILY BLANK		OK	WP 02/22/18		Aqueous	1	1	624\826	02/21 14:22
3M125291.	AD02645-002		OK	WP 02/22/18	VO15-8260	Methano	1	1	8260C	02/21 14:39
3M125292.	AD02650-001		OK	WP 02/22/18	VO-8260	Methano	1	1	8260C	02/21 14:56
3M125293.	MBS66857		OK MBS66857	WP 02/22/18		Methano	1	1	8260C	02/21 15:12
3M125294.	MBS66858		OK MBS66858	WP 02/22/18		Aqueous	1	1	624\826	02/21 15:29
3M125295.	AD02672-005(MS)		OK MBS66857	WP 02/22/18	ERROR	Methano	1	1	8260C	02/21 15:46
3M125296.	AD02672-005(MSD)		OK MBS66857	WP 02/22/18	ERROR	Methano	1	1	8260C	02/21 16:02

Anc	Area Not Checked	Ea	Extraction Performed Past Hold	Cn	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20... not checked
B6m	Blank 600 series missing	Etn	Tckn/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for anh
B8m	Blank 8000 series missing	Etn	Tckn Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evm	Eval Mix missing dclt or andrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calcnt csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Endinn Cal missing for sample (8000 series)	Iw	Initial cal warning .Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3M125734.	BFB TUNE		V-267203,V-267159,V-274482,V-274629	SG 03/01/18						03/01 07:10
3M125736.	CAL @ 20 PPB		OK	WP 03/01/18		Aqueous	1	1	624\826	03/01 07:34
3M125738.	BLK					Aqueous	1	1	624\826	03/01 08:09
3M125739.	DAILY BLANK		OK	WP 03/01/18		Methano	1	1	8260C	03/01 08:26
3M125740.	DAILY BLANK		OK	WP 03/01/18		Aqueous	1	1	624\826	03/01 08:43
3M125741.	02669-005					Aqueous	1	1	624\826	03/01 09:00
3M125742.	02669-006					Aqueous	1	1	624\826	03/01 09:17
3M125743.	02669-004					Aqueous	1	1	624\826	03/01 09:33
3M125744.	MBS67243		OK MBS67243	WP 03/01/18		Aqueous	1	1	624\826	03/01 09:51
3M125745.	AD02780-002		OK	WP 03/01/18	VO15-8260	Aqueous	1	1	8260C	03/01 10:07
3M125746.	AD02780-004		RR-1X	SG 03/02/18	VO15-8260	Aqueous	1	1	8260C	03/01 10:25
3M125747.	EF-1V-273982(0222		OK	WP 03/01/18		Aqueous	1	2221	8260C	03/01 10:43
3M125748.	AD02787-002		OK	WP 03/01/18	VO-8260	Aqueous	1	1	8260C	03/01 11:00
3M125749.	AD02694-003		OK	WP 03/01/18	VO-8260	Aqueous	1	1	8260C	03/01 11:16
3M125750.	AD02694-002		OK	WP 03/01/18	VO-8260	Aqueous	1	1	8260C	03/01 11:33
3M125751.	AD02694-001		OK MBS67252	WP 03/01/18	VO-8260	Aqueous	1	1	624\826	03/01 11:50
3M125752.	AD02793-007		OK	WP 03/01/18	VO-8260	Aqueous	1	1	8260C	03/01 12:06
3M125753.	AD02787-001		OK	WP 03/01/18	VO-8260	Aqueous	1	1	8260C	03/01 12:23
3M125754.	AD02780-005(10X)		OK	WP 03/01/18	VO15-8260	Aqueous	1	10	8260C	03/01 12:40
3M125755.	MBS67247		OK MBS67247	WP 03/01/18		Methano	1	1	8260C	03/01 12:57
3M125756.	AD02807-001		OK	WP 03/01/18	VO15-8260	Methano	1	1	8260C	03/01 13:14
3M125757.	AD02811-006		RR-800uL	SG 03/02/18	VO-8260	Methano	1	1	8260C	03/01 13:31
3M125758.	AD02649-001(400u Ocf		RR-40uL,see below	WP 03/01/18	VO15-8260	Methano	1	2	8260C	03/01 13:47
3M125759.	AD02720-007(MSD)		OK MBS67253	SG 03/02/18	VO15-8260	Methano	1	1	8260C	03/01 14:04
3M125760.	AD02649-001(40uL)		OK	WP 03/01/18	VO15-8260	Methano	1	20	8260C	03/01 14:21
3M125761.	02720-006		RR-5G	WP 03/01/18		Methano	1	0.294	8260C	03/01 14:37
3M125762.	AD02720-007		RR-5G MBS67253	WP 03/01/18	VO15-8260	Methano	1	1	8260C	03/01 14:54
3M125763.	AD02811-006		OK	WP 03/01/18	VO-8260	Methano	1	1	8260C	03/01 15:11
3M125764.	AD02720-007(MS)		OK MBS67253	SG 03/02/18	VO15-8260	Methano	1	1	8260C	03/01 15:28
3M125765.	AD02748-001(10X)		OK	WP 03/01/18	VO-8260	Aqueous	1	10	8260C	03/01 15:45
3M125766.	AD02833-001		RR-1X	WP 03/01/18	VO-8260	Aqueous	1	1	624\826	03/01 16:01
3M125767.	MBS67250		MBS67250			Aqueous	1	1	624\826	03/01 16:18
3M125768.	MBS67251		MBS67251			Aqueous	1	1	624\826	03/01 16:34
3M125769.	AD02694-001(MS)		OK MBS67252	SG 03/02/18	VO-8260	Aqueous	1	1	624\826	03/01 16:51
3M125770.	AD02694-001(MSD)		OK MBS67252	SG 03/02/18	VO-8260	Aqueous	1	1	624\826	03/01 17:08
3M125771.	AD02833-001		OK MBS67265	SG 03/02/18	VO-8260	Aqueous	1	1	624\826	03/01 17:25
3M125772.	AD02780-004		OK	SG 03/02/18	VO15-8260	Aqueous	1	1	8260C	03/01 17:42
3M125773.	MBS67252		OK MBS67252	SG 03/02/18		Aqueous	1	1	624\826	03/01 17:58
3M125774.	MBS67253		OK MBS67253	SG 03/02/18		Methano	1	1	8260C	03/01 18:14

Anc	Area Not Checked	En	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20... not checked
B6m	Blank 600 series missing	Etn	Tdn/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for anh
B8m	Blank 8000 series missing	Eto	Tdn Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing dlf or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16.R26	Rnd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16.I26	Initial cal 600 series failed Column 1 and or 2	R18.R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18.I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmd.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Endino Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6.Sb6	Acid and or BN Surrogate Out (600 series)

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3M125819.	BFB TUNE		V-267203,V-267159,V-274482,V-274702	SG 03/02/18						03/02 06:27
3M125820.	CAL @ 20 PPB		OK	SG 03/02/18		Aqueous	1	1	624\826	03/02 06:44
3M125822.	BLK					Aqueous	1	1	624\826	03/02 07:18
3M125823.	DAILY BLANK		OK	WP 03/02/18		Methano	1	1	8260C	03/02 07:35
3M125824.	DAILY BLANK		OK	WP 03/02/18		Aqueous	1	1	624\826	03/02 07:52
3M125825.	AD02834-002		OK	WP 03/02/18	VOBTEX-624	Aqueous	1	1	624	03/02 08:12
3M125826.	AD02834-001		OK	WP 03/02/18	VOBTEX-624	Aqueous	1	1	624	03/02 08:29
3M125827.	MBS67264		OK MBS67264	WP 03/02/18		Methano	1	1	8260C	03/02 08:46
3M125828.	MBS67265	M16M18	OK MBS67265	WP 03/02/18		Aqueous	1	1	624\826	03/02 09:02
3M125829.	AD02865-010		RR-800uL	SG 03/05/18	VO-8260	Methano	1	1	8260C	03/02 09:20
3M125830.	AD02780-003		OK	WP 03/02/18	VO15-8260	Aqueous	1	1	8260C	03/02 09:36
3M125831.	AD02780-006		OK	WP 03/02/18	VO15-8260	Aqueous	1	1	8260C	03/02 09:53
3M125832.	AD02813-004		OK	WP 03/02/18	VO15-8260	Aqueous	1	1	8260C	03/02 10:10
3M125833.	AD02813-003		OK	WP 03/02/18	VO15-8260	Aqueous	1	1	8260C	03/02 10:27
3M125834.	AD02736-008(MS)		OK MBS67264	WP 03/02/18	VO15-8260	Methano	1	1	8260C	03/02 10:44
3M125835.	AD02813-002		OK	WP 03/02/18	VO15-8260	Aqueous	1	1	8260C	03/02 11:01
3M125836.	AD02833-001(MS)	M16M18	OK MBS67265	WP 03/02/18	VO-8260	Aqueous	1	1	624\826	03/02 11:17
3M125837.	AD02833-001(MSD)	M16M18	OK MBS67265	WP 03/02/18	VO-8260	Aqueous	1	1	624\826	03/02 11:35
3M125838.	AD02736-008(MSD)		OK MBS67264	WP 03/02/18	VO15-8260	Methano	1	1	8260C	03/02 11:51
3M125839.	AD02831-001		OK	SG 03/05/18	VO15-8260	Methano	1	1	8260C	03/02 12:10
3M125840.	AD02799-001		OK	WP 03/02/18	VO-8260	Aqueous	1	1	8260C	03/02 12:27
3M125841.	AD02799-002	S8	RR-1X	SG 03/05/18	VO-8260	Aqueous	1	1	8260C	03/02 12:44
3M125842.	AD02829-001		OK	WP 03/02/18	VOBTEXM-62	Aqueous	1	1	624	03/02 13:00
3M125843.	AD02775-001(50X)		RR-10X	SG 03/05/18	VO15-8260	Aqueous	1	50	8260C	03/02 13:17
3M125844.	AD02872-001(20X)	Oc	OK	WP 03/02/18	VO-8260	Aqueous	1	20	8260C	03/02 13:34
3M125845.	MBS67270		MBS67270			Methano	1	1	8260C	03/02 13:50
3M125846.	MBS67271		MBS67271			Methano	1	1	8260C	03/02 14:07
3M125847.	MBS67272		MBS67272			Methano	1	1	8260C	03/02 14:23
3M125848.	MBS67273		MBS67273			Methano	1	1	8260C	03/02 14:40
3M125849.	MBS67276		MBS67276			Methano	1	1	8260C	03/02 14:57
3M125850.	MBS67278		MBS67278			Methano	1	1	8260C	03/02 15:13
3M125851.	MBS67279		MBS67279			Methano	1	1	8260C	03/02 15:30
3M125852.	AD02799-002		RR-1X,OK	SG 03/05/18,KL 03/08/18	VO-8260	Aqueous	1	1	8260C	03/02 15:47
3M125853.	AD02781-002		OK	SG 03/05/18,KL 03/08/18	VO15-624	Aqueous	1	1	624	03/02 16:03
3M125854.	AD02781-001		OK	SG 03/05/18	VO15-624	Aqueous	1	1	624	03/02 16:20
3M125855.	AD02775-001(10X)		OK	SG 03/05/18	VO15-8260	Aqueous	1	10	8260C	03/02 16:36
3M125856.	AD02840-004		RR-800uL	SG 03/05/18	VO-8260	Methano	1	1	624\826	03/02 16:53
3M125857.	AD02836-002		OK	SG 03/05/18	VO-8260	Methano	1	1	8260C	03/02 17:10
3M125858.	AD02835-001		OK	SG 03/05/18	VO-8260	Methano	1	1	8260C	03/02 17:26

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20... not checked
B6m	Blank 600 series missing	Etn	Tdn/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for eoh
B8m	Blank 8000 series missing	Eto	Tdn Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evnc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Rn	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Pmb with calmd.csv for init calibration chek rfs	S6	600 series surrogate out
Cma	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning..Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-253443

Prepared By: Revolus, Jean | Department: Organics | ApprovedBy: jean
Description: Ethyl ether/Furan Mix | BatchNumber: | ApproveDate: 03/06/18
Prep Date: 4/5/2017 | Concentration: 5000 ppm | Checked: Yes
Expiration Date: 3/31/2018 | Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
10096	Furan	50 mg	Neat neat	5000 ppm
10710	METHYL ALCOHOL	10 ml	NEAT neat	
8786	Ethyl Ether	50 mg	neat neat	5000 ppm

Veritech Lot Number: V-253448

Prepared By: Revolus, Jean | Department: Organics | ApprovedBy: akmal
Description: Ethyl ether/Furan Mix(2ndSource) | BatchNumber: | ApproveDate: 04/11/17
Prep Date: 4/5/2017 | Concentration: 5000 ppm | Checked: Yes
Expiration Date: 3/31/2018 | Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
10710	METHYL ALCOHOL	10 ml	NEAT neat	
8786	Ethyl Ether	50 mg	neat neat	5000 ppm
10096	Furan	50 mg	Neat neat	5000 ppm

Veritech Lot Number: V-261014

Prepared By: Revolus, Jean | Department: Organics | ApprovedBy: jean
Description: VOA ADD MIX | BatchNumber: | ApproveDate: 03/06/18
Prep Date: 8/4/2017 | Concentration: 5000 ppm | Checked: Yes
Expiration Date: 8/4/2018 | Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
2889	1,2,4,5-TETRAMETHYLBENZENE	50 mg	NEAT	5000 ppm
9626	p-Ethyltoluene	50 mg	Neat	5000 ppm
9642	p-Diethylbenzene	50 mg	Neat	5000 ppm
11024	METHYL Alcohol		neat neat	
10966	Cyclohexanone	250 mg	NEAT neat	25000 ppm

Veritech Lot Number: V-261028

Prepared By: Revolus, Jean | Department: Organics | ApprovedBy: akmal
Description: VOA ADD MIX(2nd Source) | BatchNumber: | ApproveDate: 08/08/17
Prep Date: 8/4/2017 | Concentration: 5000 ppm | Checked: Yes
Expiration Date: 8/4/2018 | Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
2889	1,2,4,5-TETRAMETHYLBENZENE	50 mg	NEAT	5000 ppm
9626	p-Ethyltoluene	50 mg	Neat	5000 ppm
11024	METHYL Alcohol		neat neat	
9642	p-Diethylbenzene	50 mg	Neat	5000 ppm
10966	Cyclohexanone	250 mg	NEAT neat	25000 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-261034

Prepared By: Revolus, Jean | Department: Organics | ApprovedBy: jean
Description: Voa Extra Add Mix | BatchNumber: | ApproveDate: 03/06/18
Prep Date: 8/7/2017 | Concentration: 2000-20000 p | Checked: Yes
Expiration Date: 8/7/2018 | Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8784	Methyl Methacrylate	20 mg	neat neat	2000 ppm
8787	n-Butyl Acrylate	20 mg	neat neat	2000 ppm
9627	Butyl methacrylate	20 mg	Neat	2000 ppm
10271	Ethyl methacrylate	20 mg	Neat neat	2000 ppm
11024	METHYL Alcohol	10 ml	neat neat	
10964	Isopropyl Acetate	20 mg	NEAT neat	2000 ppm
8809	n-Amyl Acetate	20 mg	neat neat	2000 ppm
9641	d-Camphor	200 mg	Neat	20000 ppm
8782	Ethyl Acetate	20 mg	neat neat	2000 ppm
8781	Camphene	20 mg	neat neat	2000 ppm

Veritech Lot Number: V-261036

Prepared By: Revolus, Jean | Department: Organics | ApprovedBy: akmal
Description: Voa Extra Add Mix(2nd Source) | BatchNumber: | ApproveDate: 08/08/17
Prep Date: 8/7/2017 | Concentration: 2000-20000 p | Checked: Yes
Expiration Date: 8/7/2018 | Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8784	Methyl Methacrylate	20 mg	neat neat	2000 ppm
9627	Butyl methacrylate	20 mg	Neat	2000 ppm
8787	n-Butyl Acrylate	20 mg	neat neat	2000 ppm
11024	METHYL Alcohol	10 ml	neat neat	
10271	Ethyl methacrylate	20 mg	Neat neat	2000 ppm
10964	Isopropyl Acetate	20 mg	NEAT neat	2000 ppm
9641	d-Camphor	200 mg	Neat	20000 ppm
8809	n-Amyl Acetate	20 mg	neat neat	2000 ppm
8782	Ethyl Acetate	20 mg	neat neat	2000 ppm
8781	Camphene	20 mg	neat neat	2000 ppm

Veritech Lot Number: V-267159

Prepared By: Previlon, Wilner | Department: Organics | ApprovedBy: akmal
Description: VOA WORKING INT/SURR MIX | BatchNumber: | ApproveDate: 11/15/17
Prep Date: 11/13/2017 | Concentration: 150 ppm | Checked: Yes
Expiration Date: 4/13/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
7966	Methanol	88 ml	neat neat	
10520	8260A Surrogate Mix	6 ml	2500 ppm	150 ppm
10519	8260A Internal Standard Mix	6 ml	2500 ppm	150 ppm

Veritech Lot Number: V-267203

Prepared By: Goring, Shawn | Department: Organics | ApprovedBy: akmal
Description: BFB Tune Mix | BatchNumber: | ApproveDate: 11/15/17
Prep Date: 11/14/2017 | Concentration: 50 ppm | Checked: Yes
Expiration Date: 4/13/2018 | Final Volume: 1.5 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-267159	VOA WORKING INT/SURR MIX	500 ul	150 ppm	50 ppm
7967	Methanol	1000 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-271220

Prepared By: Previlon, Wilner
Description: 200ppm VOA Working Std
Prep Date: 1/12/2018
Expiration Date: 3/31/2018
Department: Organics
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 01/23/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
10865	methyl alcohol	220 ul	neat neat	neat
10516	502.2 Cal Mix #1(Gases)	100 ul	2000 ppm	200 ppm
10515	502.2 CAL2000 Mega Mix	100 ul	2000 ppm	200 ppm
10570	8260 CAL.Mix 2	100 ul	2000 ppm	200 ppm
11309	Custom VOC Standard	100 ul	VARIOUS	various ppm
10518	tert-Amyl Methyl Ether	100 ul	2000 ppm	200 ppm
V-261014	VOA ADD MIX	40 ul	5000 ppm	various ppm
V-261034	Voa Extra Add Mix	100 ul	2000-20000 p	200 ppm
V-253443	Ethyl ether/Furan Mix	40 ul	5000 ppm	200 ppm
10517	Ethyl-tert-Butyl Ether(ETBE)	100 ul	2000 ppm	200 ppm

Veritech Lot Number: V-271221

Prepared By: Previlon, Wilner
Description: MBS
Prep Date: 1/12/2018
Expiration Date: 3/31/2018
Department: Organics
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 01/23/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
10865	methyl alcohol	610 ul	neat neat	neat neat
10919	Volatile.Org.COMPDS Mix 6	50 ul	2000 ppm	100 ppm
10918	502/524 Vola.Org.Cal Mix	50 ul	2000 ppm	100 ppm
10571	SS 8260 CAL.Mix 2(2nd Source)	50 ul	2000 ppm	100 ppm
11310	Custom VOC Standard(2nd Source)	50 ul	VARIOUS	various ppm
10704	Tert-Amyl methyl ether	50 ul	2000 ppm	100 ppm
V-261028	VOA ADD MIX(2nd Source)	20 ul	5000 ppm	various ppm
V-261036	Voa Extra Add Mix(2nd Source)	50 ul	2000-20000 p	100-1000 pp
V-253448	Ethyl ether/Furan Mix(2ndSource)	20 ul	5000 ppm	100 ppm
10739	Ethyl-tert-Butyl Ether	50 ul	2000 ppm	100 ppm

Veritech Lot Number: V-271491

Prepared By: Goring, Shawn
Description: 20ppm VOA Working Std
Prep Date: 1/18/2018
Expiration Date: 3/31/2018
Department: Organics
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 01/19/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11172	METHYL ALCOHOL	800 ul	neat neat	neat
V-271220	200ppm VOA Working Std	200 ul	VARIOUS pp	200 ppm

Veritech Lot Number: V-271492

Prepared By: Goring, Shawn
Description: 20ppm Freon VOA Working Std
Prep Date: 1/18/2018
Expiration Date: 3/31/2018
Department: Organics
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 01/19/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11172	METHYL ALCOHOL	800 ul	neat neat	neat
11284	Chlorodifluoromethane	200 ul	200 ppm	200 ppm

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-274139

Prepared By: Previlon, Wilner | Department: Organics | ApprovedBy: akmal
Description: 624/8260 CAL @ 250 PPB | BatchNumber: B-24589 | ApproveDate: 02/22/18
Prep Date: 2/21/2018 | Concentration: VARIOUS ppb | Checked: Yes
Expiration Date: 2/28/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271220	200ppm VOA Working Std	125 ul	VARIOUS pp	250 ppb
9712	P&T Water	100 ml	Neat neat	
11284	Chlorodifluoromethane	125 ul	200 ppm	250 ppb

Veritech Lot Number: V-274140

Prepared By: Previlon, Wilner | Department: Organics | ApprovedBy: akmal
Description: 624/8260 CAL @ 100 PPB | BatchNumber: B-24589 | ApproveDate: 02/22/18
Prep Date: 2/21/2018 | Concentration: VARIOUS ppb | Checked: Yes
Expiration Date: 2/28/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271220	200ppm VOA Working Std	50 ul	VARIOUS pp	100 ppb
9712	P&T Water	100 ml	Neat neat	
11284	Chlorodifluoromethane	50 ul	200 ppm	100 ppb

Veritech Lot Number: V-274141

Prepared By: Previlon, Wilner | Department: Organics | ApprovedBy: akmal
Description: 624/8260 CAL @ 50 PPB | BatchNumber: B-24589 | ApproveDate: 02/22/18
Prep Date: 2/21/2018 | Concentration: VARIOUS ppb | Checked: Yes
Expiration Date: 2/28/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271220	200ppm VOA Working Std	25 ul	VARIOUS pp	50 ppb
9712	P&T Water	100 ml	Neat neat	
11284	Chlorodifluoromethane	25 ul	200 ppm	50 ppb

Veritech Lot Number: V-274142

Prepared By: Previlon, Wilner | Department: Organics | ApprovedBy: akmal
Description: 624/8260 CAL @ 20 PPB | BatchNumber: B-24589 | ApproveDate: 02/22/18
Prep Date: 2/21/2018 | Concentration: VARIOUS ppb | Checked: Yes
Expiration Date: 2/28/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271220	200ppm VOA Working Std	10 ul	VARIOUS pp	20 ppb
9712	P&T Water	100 ml	Neat neat	
11284	Chlorodifluoromethane	10 ul	200 ppm	20 ppb

Veritech Lot Number: V-274143

Prepared By: Previlon, Wilner | Department: Organics | ApprovedBy: akmal
Description: 624/8260 CAL @ 10 PPB | BatchNumber: B-24589 | ApproveDate: 02/22/18
Prep Date: 2/21/2018 | Concentration: VARIOUS ppb | Checked: Yes
Expiration Date: 2/28/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271491	20ppm VOA Working Std	50 ul	VARIOUS pp	10 ppb
9712	P&T Water	100 ml	Neat neat	
v-271492	20ppm Freon VOA Working Std	50 ul	VARIOUS pp	10 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-274144

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 5 PPB
Prep Date: 2/21/2018
Expiration Date: 2/28/2018
Department: Organics
BatchNumber: B-24589
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 02/22/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271491	20ppm VOA Working Std	25 ul	VARIOUS pp	5 ppb
9712	P&T Water	100 ml	Neat neat	
v-271492	20ppm Freon VOA Working Std	25 ul	VARIOUS pp	5 ppb

Veritech Lot Number: V-274145

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 1 PPB
Prep Date: 2/21/2018
Expiration Date: 2/28/2018
Department: Organics
BatchNumber: B-24589
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 02/22/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271491	20ppm VOA Working Std	5 ul	VARIOUS pp	1 ppb
9712	P&T Water	100 ml	Neat neat	
v-271492	20ppm Freon VOA Working Std	5 ul	VARIOUS pp	1 ppb

Veritech Lot Number: V-274146

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 0.5 PPB
Prep Date: 2/21/2018
Expiration Date: 2/28/2018
Department: Organics
BatchNumber: B-24589
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 02/22/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271491	20ppm VOA Working Std	2.5 ul	VARIOUS pp	0.5 ppb
9712	P&T Water	100 ml	Neat neat	
V-271492	20ppm Freon VOA Working Std	2.5 ul	VARIOUS pp	0.5 ppb

Veritech Lot Number: V-274147

Prepared By: Previlon, Wilner
Description: 624/8260 CAL @ 500 PPB
Prep Date: 2/21/2018
Expiration Date: 2/28/2018
Department: Organics
BatchNumber: B-24589
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 02/22/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271220	200ppm VOA Working Std	250 ul	VARIOUS pp	500 ppb
9712	P&T Water	100 ml	Neat neat	
11284	Chlorodifluoromethane	250 ul	200 ppm	500 ppb

Veritech Lot Number: V-274148

Prepared By: Previlon, Wilner
Description: ICV CAL @ 20 PPB
Prep Date: 2/21/2018
Expiration Date: 2/28/2018
Department: Organics
BatchNumber:
Concentration: VARIOUS ppb
Final Volume: 100 ml
ApprovedBy: akmal
ApproveDate: 02/22/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271221	MBS	20 ul	100 ppm	20 ppb
9712	P&T Water	100 ml	Neat neat	neat
11284	Chlorodifluoromethane	10 ul	200 ppm	20 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-274478

Prepared By: Previlon, Wilner
Department: Organics
ApprovedBy: jean
Description: 200ppm VOA Working Std
BatchNumber:
ApproveDate: 03/07/18
Prep Date: 2/26/2018
Concentration: VARIOUS pp
Checked: Yes
Expiration Date: 3/31/2018
Final Volume: 1 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
10865	methyl alcohol	220 ul	neat neat	neat
10516	502.2 Cal Mix #1(Gases)	100 ul	2000 ppm	200 ppm
10515	502.2 CAL2000 Mega Mix	100 ul	2000 ppm	200 ppm
10570	8260 CAL.Mix 2	100 ul	2000 ppm	200 ppm
11309	Custom VOC Standard	100 ul	VARIOUS	various ppm
10518	tert-Amyl Methyl Ether	100 ul	2000 ppm	200 ppm
V-261014	VOA ADD MIX	40 ul	5000 ppm	various ppm
V-253443	Ethyl ether/Furan Mix	40 ul	5000 ppm	200 ppm
V-261034	Voa Extra Add Mix	100 ul	2000-20000 p	200 ppm
10517	Ethyl-tert-Butyl Ether(ETBE)	100 ul	2000 ppm	200 ppm

Veritech Lot Number: V-274482

Prepared By: Previlon, Wilner
Department: Organics
ApprovedBy: jean
Description: MBS
BatchNumber:
ApproveDate: 03/09/18
Prep Date: 2/26/2018
Concentration: 100 ppm
Checked: Yes
Expiration Date: 3/31/2018
Final Volume: 1 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
10865	methyl alcohol	610 ul	neat neat	neat neat
10919	Volatile.Org.COMPDS Mix 6	50 ul	2000 ppm	100 ppm
10918	502/524 Vola.Org.Cal Mix	50 ul	2000 ppm	100 ppm
10571	SS 8260 CAL.Mix 2(2nd Source)	50 ul	2000 ppm	100 ppm
11310	Custom VOC Standard(2nd Source)	50 ul	VARIOUS	various ppm
10704	Tert-Amyl methyl ether	50 ul	2000 ppm	100 ppm
V-261028	VOA ADD MIX(2nd Source)	20 ul	5000 ppm	various ppm
V-261036	Voa Extra Add Mix(2nd Source)	50 ul	2000-20000 p	100-1000 pp
V-253448	Ethyl ether/Furan Mix(2ndSource)	20 ul	5000 ppm	100 ppm
10739	Ethyl-tert-Butyl Ether	50 ul	2000 ppm	100 ppm

Veritech Lot Number: V-274629

Prepared By: Goring, Shawn
Department: Organics
ApprovedBy: jean
Description: CAL @ 20 PPB
BatchNumber:
ApproveDate: 03/07/18
Prep Date: 3/1/2018
Concentration: VARIOUS ppb
Checked: Yes
Expiration Date: 3/8/2018
Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274478	200ppm VOA Working Std	10 ul	VARIOUS pp	20 ppb
9712	P&T Water	100 ml	Neat neat	
11284	Chlorodifluoromethane	10 ul	200 ppm	20 ppb

Veritech Lot Number: V-274702

Prepared By: Goring, Shawn
Department: Organics
ApprovedBy: jean
Description: CAL @ 20 PPB
BatchNumber:
ApproveDate: 03/06/18
Prep Date: 3/2/2018
Concentration: VARIOUS ppb
Checked: Yes
Expiration Date: 3/9/2018
Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274478	200ppm VOA Working Std	10 ul	VARIOUS pp	20 ppb
9712	P&T Water	100 ml	Neat neat	
11284	Chlorodifluoromethane	10 ul	200 ppm	20 ppb

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 2889

Description
1,2,4,5-TETRAMETHYLBENZENE

ApprovedBy: jean
ApproveDate: 07/30/09
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACROS ORGANI	409390050	A0214190	11/20/07	11/30/20	Revolus, Jean	1	1ML	NEAT	

Veritech Control/Receipt Number: 7966

Description
Methanol

ApprovedBy: jean
ApproveDate: 06/20/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
spectrum	PT705-02	2CE0318	06/19/13	06/18/18	Lopez, Jose	30	1L	neat	neat

Veritech Control/Receipt Number: 7967

Description
Methanol

ApprovedBy: jean
ApproveDate: 06/20/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
spectrum	PT705-02	2CE0317	06/19/13	06/18/18	Lopez, Jose	6	1L	neat	neat

Veritech Control/Receipt Number: 8781

Description
Camphene

ApprovedBy: akmal
ApproveDate: 06/19/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-11395-1G	2868400	06/19/14	12/31/19	Hamid, Akmal	2	1g	neat	neat

Veritech Control/Receipt Number: 8782

Description
Ethyl Acetate

ApprovedBy: akmal
ApproveDate: 06/19/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-11881-1G	2787200	06/19/14	09/30/18	Hamid, Akmal	1	1g	neat	neat

Veritech Control/Receipt Number: 8784

Description
Methyl Methacrylate

ApprovedBy: akmal
ApproveDate: 06/19/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-12443-1G	2762100	06/19/14	10/31/18	Hamid, Akmal	5	1g	neat	neat

Veritech Control/Receipt Number: 8786

Description
Ethyl Ether

ApprovedBy: akmal
ApproveDate: 06/19/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-11897-1G	2853600	06/19/14	03/31/18	Hamid, Akmal	2	1g	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 8787

Description
n-Butyl Acrylate

ApprovedBy: akmal
ApproveDate: 06/19/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-12513-1G	2865800	06/19/14	02/28/19	Hamid, Akmal	10	1g	neat	neat

Veritech Control/Receipt Number: 8809

Description
n-Amyl Acetate

ApprovedBy: akmal
ApproveDate: 07/07/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	N-12508-1G	2708400	07/07/14	01/31/19	Hamid, Akmal	1	1g	neat	neat

Veritech Control/Receipt Number: 9626

Description
p-Ethyltoluene

ApprovedBy: jean
ApproveDate: 08/04/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEM SERVICE	N-12776-1G	3381600	08/04/15	11/30/21	Revolus, Jean	1	1g	Neat	

Veritech Control/Receipt Number: 9627

Description
Butyl methacrylate

ApprovedBy: jean
ApproveDate: 08/04/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-11371-1G	2127700	08/04/15	11/30/18	Revolus, Jean	1	1g	Neat	

Veritech Control/Receipt Number: 9641

Description
d-Camphor

ApprovedBy: jean
ApproveDate: 08/11/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEM SERVICE	N-11556-1G	3256300	08/11/15	10/31/20	Revolus, Jean	2	1g	Neat	

Veritech Control/Receipt Number: 9642

Description
p-Diethylbenzene

ApprovedBy: jean
ApproveDate: 08/11/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEM SERVICE	N-12771-100MG	4233000	08/11/15	08/31/20	Revolus, Jean	4	100m	Neat	

Veritech Control/Receipt Number: 9712

Description
P&T Water

ApprovedBy: jean
ApproveDate: 10/20/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Veritech	N/A	N/A	09/28/15	09/28/20	Goring, Shawn	1	N/A	Neat	Neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 10096

Description
Furan

ApprovedBy: akmal
ApproveDate: 03/31/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-12101-1G	3609300	03/31/16	02/28/20	Hamid, Akmal	1	1g	Neat	Neat

Veritech Control/Receipt Number: 10271

Description
Ethyl methacrylate

ApprovedBy: akmal
ApproveDate: 06/14/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N11903-1g	4592300	06/14/16	12/31/19	Hamid, Akmal	1	1g	Neat	Neat

Veritech Control/Receipt Number: 10515

Description
502.2 CAL2000 Mega Mix

ApprovedBy: Jean
ApproveDate: 11/17/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
RESTEK	30431	A0120695	11/01/16	07/31/18	Revolus, Jean	5	1ml	2000	PPM

Veritech Control/Receipt Number: 10516

Description
502.2 Cal Mix #1(Gases)

ApprovedBy: Jean
ApproveDate: 11/17/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
RESTEK	30042	A0120832	11/01/16	04/30/23	Revolus, Jean	5	1ml	2000	PPM

Veritech Control/Receipt Number: 10517

Description
Ethyl-tert-Butyl Ether(ETBE)

ApprovedBy: Jean
ApproveDate: 11/17/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
RESTEK	30628	A0116348	11/01/16	01/31/21	Revolus, Jean	3	1ml	2000	PPM

Veritech Control/Receipt Number: 10518

Description
tert-Amyl Methyl Ether

ApprovedBy: Jean
ApproveDate: 11/17/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
RESTEK	30629	A0104857	11/01/16	07/31/19	Revolus, Jean	5	1ml	2000	PPM

Veritech Control/Receipt Number: 10519

Description
8260A Internal Standard Mix

ApprovedBy: Jean
ApproveDate: 11/17/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
RESTEK	30241	A0117358	11/01/16	02/28/21	Revolus, Jean	10	1ml	2500	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 10520

Description
8260A Surrogate Mix

ApprovedBy: Jean
ApproveDate: 11/17/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
RESTEK	30240	A0116870	11/01/16	01/31/21	Revolus, Jean	10	1ml	2500	PPM

Veritech Control/Receipt Number: 10570

Description
8260 CAL.Mix 2

ApprovedBy: akmal
ApproveDate: 11/28/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	46831-U	LC16307V	11/03/16	08/31/18	Hamid, Akmal	4	1ML	2000	PPM

Veritech Control/Receipt Number: 10571

Description
SS 8260 CAL.Mix 2(2nd Source)

ApprovedBy: akmal
ApproveDate: 11/28/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	4S6831-U	LC19120V	11/03/16	03/31/18	Hamid, Akmal	4	1ML	2000	PPM

Veritech Control/Receipt Number: 10704

Description
Tert-Amyl methyl ether

ApprovedBy: akmal
ApproveDate: 01/17/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	506737	XA16639V	01/17/17	10/31/18	Hamid, Akmal	4	1ML	2000	PPM

Veritech Control/Receipt Number: 10710

Description
METHYL ALCOHOL

ApprovedBy: akmal
ApproveDate: 01/19/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
TEDIA	MP1924	16080704	01/19/17	09/12/18	Burwell, John	12	1 L	NEAT	NEAT

Veritech Control/Receipt Number: 10739

Description
Ethyl-tert-Butyl Ether

ApprovedBy: akmal
ApproveDate: 02/07/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	30628	A0124597	02/07/17	01/31/22	Hamid, Akmal	5	1ml	2000	ppm

Veritech Control/Receipt Number: 10865

Description
methyl alcohol

ApprovedBy: akmal
ApproveDate: 04/06/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	MP1924	16080704	04/05/17	09/12/18	Lopez, Jose	24	6L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 10918

Description
502/524 Vola.Org.Cal Mix

ApprovedBy: akmal
ApproveDate: 04/28/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	502111	LC22531V	04/28/17	08/30/18	Hamid, Akmal	5	1ML	2000	PPM

Veritech Control/Receipt Number: 10919

Description
Volatile.Org.COMPDS Mix 6

ApprovedBy: akmal
ApproveDate: 04/28/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	CRM48799	XA25774V	04/28/17	06/30/18	Hamid, Akmal	5	1ML	2000	PPM

Veritech Control/Receipt Number: 10964

Description
Isopropyl Acetate

ApprovedBy: akmal
ApproveDate: 05/30/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service Inc	N-12223-1G	6037900	05/26/17	02/28/20	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 10966

Description
Cyclohexanone

ApprovedBy: akmal
ApproveDate: 05/30/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service Inc	N-11531-1G	6255400	05/26/17	10/31/19	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 11024

Description
METHYL Alcohol

ApprovedBy: akmal
ApproveDate: 06/27/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
TEDIA	MP1924	17030507	06/23/17	04/05/19	Burwell, John	30	1 L	neat	neat

Veritech Control/Receipt Number: 11172

Description
METHYL ALCOHOL

ApprovedBy: akmal
ApproveDate: 09/19/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Tedia	MP1924	17070285	09/18/17	08/14/19	Lopez, Jose	30	1L	neat	neat

Veritech Control/Receipt Number: 11284

Description
Chlorodifluoromethane

ApprovedBy: jean
ApproveDate: 11/20/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	M-REF-03	217071159	11/16/17	07/12/27	Revolus, Jean	20	1ml	200	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11309

Description
Custom VOC Standard

ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	S-16418	217111207	12/05/17	05/20/18	Revolus, Jean	5	1ml	VARIOU	

Veritech Control/Receipt Number: 11310

Description
Custom VOC Standard(2nd Source)

ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	S-16418	217111288	12/05/17	06/04/18	Revolus, Jean	5	1ml	VARIOU	

GC/MS Base Neutral/Acid Extractable Data

GC/MS Base Neutral/Acid Extractable Data
QC Summary

FORM2

Surrogate Recovery

Method: EPA 8270D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column1 S3 Recov	Column1 S4 Recov	Column1 S5 Recov	Column1 S6 Recov
5M103139.D	WMB66108	A	03/01/18 15:04	1		50	33	85	88	86	102
5M103142.D	AD02799-002	A	03/01/18 16:26	1		47	32	79	86	92	101
10M67912.D	WMB66108(MS)	A	03/01/18 13:52	1		53	38	90	84	97	104
10M67916.D	AD02667-001(T)	A	03/01/18 15:21	1		47	40	57	54	52*	68
10M67917.D	AD02667-001(T)(MS)	A	03/01/18 15:43	1		70	68	70	42*	87	98
10M67918.D	AD02667-001(T)(MSD)	A	03/01/18 16:05	1		64	63	63	37*	78	86

Flags: SD=Surrogate diluted out

*=Surrogate out

Method: EPA 8270D

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=2-Fluorophenol	100	29-113
S2=Phenol-d5	100	27-115
S3=Nitrobenzene-d5	50	51-139
S4=2-Fluorobiphenyl	50	53-129
S5=2,4,6-Tribromophenol	100	54-149
S6=Terphenyl-d14	50	55-146

Form3
Recovery Data Laboratory Limits
QC Batch: WMB66108

Data File	Sample ID:	Analysis Date
Spike or Dup: 10M67912.D	WMB66108(MS)	3/1/2018 1:52:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		

Method: 8270D | Matrix: Aqueous | QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	50.9141	0	100	51	20	160
Pyridine	1	20.9326	0	100	21	5	150
N-Nitrosodimethylamine	1	56.145	0	100	56	50	150
Benzaldehyde	1	232.4215	0	100	232*	20	150
Aniline	1	68.7012	0	100	69	20	150
Pentachloroethane	1	94.4595	0	100	94	50	130
bis(2-Chloroethyl)ether	1	77.5092	0	100	78	50	130
Phenol	1	39.8461	0	100	40	20	150
2-Chlorophenol	1	78.5215	0	100	79	70	130
N-Decane	1	88.4353	0	100	88	40	130
1,3-Dichlorobenzene	1	72.0129	0	100	72	50	130
1,4-Dichlorobenzene	1	68.9667	0	100	69	50	130
1,2-Dichlorobenzene	1	69.558	0	100	70	50	130
Benzyl alcohol	1	90.8023	0	100	91	70	130
bis(2-chloroisopropyl)ether	1	67.1817	0	100	67	40	130
2-Methylphenol	1	69.2262	0	100	69	60	130
Acetophenone	1	101.5877	0	100	102	50	130
Hexachloroethane	1	69.6461	0	100	70	50	130
N-Nitroso-di-n-propylamine	1	76.1433	0	100	76	50	130
3&4-Methylphenol	1	64.7149	0	100	65	50	130
Nitrobenzene	1	79.551	0	100	80	70	130
Isophorone	1	81.7847	0	100	82	70	130
2-Nitrophenol	1	91.5657	0	100	92	70	130
2,4-Dimethylphenol	1	79.9693	0	100	80	50	130
Benzoic Acid	1	14.2662	0	100	14*	20	130
bis(2-Chloroethoxy)methane	1	79.9361	0	100	80	70	130
2,4-Dichlorophenol	1	84.7591	0	100	85	70	130
1,2,4-Trichlorobenzene	1	72.2798	0	100	72	50	130
Naphthalene	1	72.9411	0	100	73	70	130
4-Chloroaniline	1	115.1756	0	100	115	50	150
Hexachlorobutadiene	1	72.5481	0	100	73	70	130
Caprolactam	1	41.4137	0	100	41	20	130
4-Chloro-3-methylphenol	1	89.8609	0	100	90	70	130
2-Methylnaphthalene	1	99.0998	0	100	99	70	130
1-Methylnaphthalene	1	87.0101	0	100	87	70	130
1,1'-Biphenyl	1	94.3858	0	100	94	70	130
1,2,4,5-Tetrachlorobenzene	1	99.0205	0	100	99	70	130
Hexachlorocyclopentadiene	1	70.578	0	100	71	20	130
2,4,6-Trichlorophenol	1	92.9557	0	100	93	70	130
2,4,5-Trichlorophenol	1	89.0779	0	100	89	70	130
2-Chloronaphthalene	1	77.31	0	100	77	70	130
1,4-Dimethylnaphthalene	1	96.7062	0	100	97	70	130
Diphenyl Ether	1	102.2135	0	100	102	70	130
2-Nitroaniline	1	115.3931	0	100	115	50	150
Coumarin	1	115.8959	0	100	116	70	130
Acenaphthylene	1	85.3885	0	100	85	70	130
Dimethylphthalate	1	88.3289	0	100	88	70	130
2,6-Dinitrotoluene	1	85.4754	0	100	85	70	130
Acenaphthene	1	82.1591	0	100	82	70	130
3-Nitroaniline	1	121.0633	0	100	121	50	150
2,4-Dinitrophenol	1	76.0366	0	100	76	20	150
Dibenzofuran	1	111.3912	0	100	111	70	130
2,4-Dinitrotoluene	1	85.1779	0	100	85	40	130
4-Nitrophenol	1	41.4641	0	100	41	20	150
2,3,4,6-Tetrachlorophenol	1	94.3521	0	100	94	70	130
Fluorene	1	84.5787	0	100	85	70	130
4-Chlorophenyl-phenylether	1	82.7257	0	100	83	70	130
Diethylphthalate	1	93.249	0	100	93	50	130
4-Nitroaniline	1	108.9711	0	100	109	50	150
Atrazine	1	104.0202	0	100	104	50	130
4,6-Dinitro-2-methylphenol	1	93.2486	0	100	93	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: WMB66108

n-Nitrosodiphenylamine	1	75.5817	0	100	76	50	130
1,2-Diphenylhydrazine	1	89.7289	0	100	90	70	130
4-Bromophenyl-phenylether	1	89.6943	0	100	90	70	130
Hexachlorobenzene	1	90.4268	0	100	90	70	130
N-Octadecane	1	116.9304	0	100	117	70	130
Pentachlorophenol	1	102.3898	0	100	102	40	130
Phenanthrene	1	87.5318	0	100	88	70	130
Anthracene	1	89.6763	0	100	90	70	130
Carbazole	1	98.865	0	100	99	70	130
Di-n-butylphthalate	1	94.6201	0	100	95	70	130
Fluoranthene	1	95.2436	0	100	95	70	130
Pyrene	1	94.335	0	100	94	70	130
Benzidine	1	2.651	0	100	2.7	1	130
Butylbenzylphthalate	1	90.9785	0	100	91	50	130
3,3'-Dichlorobenzidine	1	109.5914	0	100	110	1	150
Benzo[a]anthracene	1	91.8144	0	100	92	70	130
Chrysene	1	90.6458	0	100	91	50	130
bis(2-Ethylhexyl)phthalate	1	95.8189	0	100	96	70	130
Di-n-octylphthalate	1	97.3573	0	100	97	70	130
Benzo[b]fluoranthene	1	94.8657	0	100	95	70	130
Benzo[k]fluoranthene	1	98.0678	0	100	98	70	130
Benzo[a]pyrene	1	89.0932	0	100	89	70	130
Indeno[1,2,3-cd]pyrene	1	96.2557	0	100	96	70	130
Dibenzo[a,h]anthracene	1	94.3411	0	100	94	70	130
Benzo[g,h,i]perylene	1	88.8084	0	100	89	70	130

* - Indicates outside of limits

\# - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: WMB66108

Data File	Sample ID:	Analysis Date
Spike or Dup: 10M67917.D	AD02667-001(T)(MS)	3/1/2018 3:43:00 PM
Non Spike(If applicable): 10M67916.D	AD02667-001(T)	3/1/2018 3:21:00 PM
Inst Blank(If applicable):		

Method: 8270D | Matrix: Aqueous | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	61.9455	0	100	62	20	160
Pyridine	1	58.0812	0	100	58	5	150
N-Nitrosodimethylamine	1	73.3329	0	100	73	50	150
Benzaldehyde	1	165.5702	0	100	166*	20	150
Aniline	1	93.3702	0	100	93	20	150
Pentachloroethane	1	84.5766	0	100	85	50	130
bis(2-Chloroethyl)ether	1	63.3856	0	100	63	50	130
N-Decane	1	81.5478	0	100	82	40	130
1,3-Dichlorobenzene	1	28.0511	0	100	28*	50	130
1,4-Dichlorobenzene	1	28.8071	0	100	29*	50	130
1,2-Dichlorobenzene	1	31.0885	0	100	31*	50	130
Benzyl alcohol	1	95.5951	0	100	96	70	130
bis(2-chloroisopropyl)ether	1	46.9647	0	100	47	40	130
Acetophenone	1	89.7217	0	100	90	50	130
Hexachloroethane	1	28.1838	0	100	28*	50	130
N-Nitroso-di-n-propylamine	1	66.9408	0	100	67	50	130
Nitrobenzene	1	65.0863	0	100	65*	70	130
Isophorone	1	73.339	0	100	73	70	130
Benzoic Acid	1	53.6111	0	100	54	20	130
bis(2-Chloroethoxy)methane	1	71.8304	0	100	72	70	130
1,2,4-Trichlorobenzene	1	52.702	0	100	53	50	130
Naphthalene	1	51.973	0	100	52*	70	130
4-Chloroaniline	1	115.3731	0	100	115	50	150
Hexachlorobutadiene	1	46.814	0	100	47*	70	130
Caprolactam	1	90.1675	0	100	90	20	130
2-Methylnaphthalene	1	89.5404	0	100	90	70	130
1-Methylnaphthalene	1	79.6909	0	100	80	70	130
1,1'-Biphenyl	1	88.8588	0	100	89	70	130
1,2,4,5-Tetrachlorobenzene	1	94.4005	0	100	94	70	130
Hexachlorocyclopentadiene	1	60.1313	0	100	60	20	130
2-Chloronaphthalene	1	73.6148	0	100	74	70	130
1,4-Dimethylnaphthalene	1	90.3923	0	100	90	70	130
Diphenyl Ether	1	96.2453	0	100	96	70	130
2-Nitroaniline	1	106.6106	0	100	107	50	150
Coumarin	1	109.2793	0	100	109	70	130
Acenaphthylene	1	84.6247	0	100	85	70	130
Dimethylphthalate	1	85.7427	0	100	86	70	130
2,6-Dinitrotoluene	1	82.0765	0	100	82	70	130
Acenaphthene	1	80.1626	0	100	80	70	130
3-Nitroaniline	1	116.6891	0	100	117	50	150
Dibenzofuran	1	108.0193	0	100	108	70	130
2,4-Dinitrotoluene	1	84.0999	0	100	84	40	130
Fluorene	1	83.7054	0	100	84	70	130
4-Chlorophenyl-phenylether	1	84.3945	0	100	84	70	130
Diethylphthalate	1	91.1776	0	100	91	50	130
4-Nitroaniline	1	106.7475	0	100	107	50	150
Atrazine	1	93.5672	0	100	94	50	130
n-Nitrosodiphenylamine	1	72.4008	0	100	72	50	130
1,2-Diphenylhydrazine	1	86.4711	0	100	86	70	130
4-Bromophenyl-phenylether	1	89.6995	0	100	90	70	130
Hexachlorobenzene	1	89.2357	0	100	89	70	130
N-Octadecane	1	101.4802	0	100	101	70	130
Phenanthrene	1	85.0752	0	100	85	70	130
Anthracene	1	86.2905	0	100	86	70	130
Carbazole	1	93.4939	0	100	93	70	130
Di-n-butylphthalate	1	88.408	0	100	88	70	130
Fluoranthene	1	89.4763	0	100	89	70	130
Pyrene	1	89.9588	0	100	90	70	130
Benzidine	1	24.2098	0	100	24	1	130
Butylbenzylphthalate	1	88.2195	0	100	88	50	130
3,3'-Dichlorobenzidine	1	109.5221	0	100	110	1	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: WMB66108

Benzo[a]anthracene	1	90.2905	0	100	90	70	130
Chrysene	1	89.1176	0	100	89	50	130
bis(2-Ethylhexyl)phthalate	1	93.1275	0	100	93	70	130
Di-n-octylphthalate	1	93.1692	0	100	93	70	130
Benzo[b]fluoranthene	1	90.9555	0	100	91	70	130
Benzo[k]fluoranthene	1	94.9376	0	100	95	70	130
Benzo[a]pyrene	1	85.1004	0	100	85	70	130
Indeno[1,2,3-cd]pyrene	1	93.3164	0	100	93	70	130
Dibenzo[a,h]anthracene	1	91.318	0	100	91	70	130
Benzo[g,h,i]perylene	1	86.7541	0	100	87	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: WMB66108

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M67918.D	AD02667-001(T)(MSD)	3/1/2018 4:05:00 PM
Non Spike(If applicable):	10M67916.D	AD02667-001(T)	3/1/2018 3:21:00 PM
Inst Blank(If applicable):			

Method: 8270D | Matrix: Aqueous | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	55.597	0	100	56	20	160
Pyridine	1	58.8232	0	100	59	5	150
N-Nitrosodimethylamine	1	64.23	0	100	64	50	150
Benzaldehyde	1	149.8717	0	100	150	20	150
Aniline	1	97.2626	0	100	97	20	150
Pentachloroethane	1	80.1156	0	100	80	50	130
bis(2-Chloroethyl)ether	1	53.733	0	100	54	50	130
N-Decane	1	76.7142	0	100	77	40	130
1,3-Dichlorobenzene	1	16.4385	0	100	16*	50	130
1,4-Dichlorobenzene	1	16.558	0	100	17*	50	130
1,2-Dichlorobenzene	1	18.1893	0	100	18*	50	130
Benzyl alcohol	1	83.2287	0	100	83	70	130
bis(2-chloroisopropyl)ether	1	34.2394	0	100	34*	40	130
Acetophenone	1	84.491	0	100	84	50	130
Hexachloroethane	1	15.7764	0	100	16*	50	130
N-Nitroso-di-n-propylamine	1	57.9975	0	100	58	50	130
Nitrobenzene	1	55.1257	0	100	55*	70	130
Isophorone	1	64.2944	0	100	64*	70	130
Benzoic Acid	1	49.5608	0	100	50	20	130
bis(2-Chloroethoxy)methane	1	62.393	0	100	62*	70	130
1,2,4-Trichlorobenzene	1	38.7014	0	100	39*	50	130
Naphthalene	1	39.6984	0	100	40*	70	130
4-Chloroaniline	1	113.8023	0	100	114	50	150
Hexachlorobutadiene	1	31.2362	0	100	31*	70	130
Caprolactam	1	86.1387	0	100	86	20	130
2-Methylnaphthalene	1	78.5354	0	100	79	70	130
1-Methylnaphthalene	1	72.7795	0	100	73	70	130
1,1'-Biphenyl	1	79.3342	0	100	79	70	130
1,2,4,5-Tetrachlorobenzene	1	82.7247	0	100	83	70	130
Hexachlorocyclopentadiene	1	44.4426	0	100	44	20	130
2-Chloronaphthalene	1	60.1852	0	100	60*	70	130
1,4-Dimethylnaphthalene	1	82.6184	0	100	83	70	130
Diphenyl Ether	1	85.0126	0	100	85	70	130
2-Nitroaniline	1	95.4413	0	100	95	50	150
Coumarin	1	98.0696	0	100	98	70	130
Acenaphthylene	1	72.3449	0	100	72	70	130
Dimethylphthalate	1	76.5926	0	100	77	70	130
2,6-Dinitrotoluene	1	73.7575	0	100	74	70	130
Acenaphthene	1	68.5107	0	100	69*	70	130
3-Nitroaniline	1	118.7946	0	100	119	50	150
Dibenzofuran	1	89.9924	0	100	90	70	130
2,4-Dinitrotoluene	1	73.3446	0	100	73	40	130
Fluorene	1	74.5543	0	100	75	70	130
4-Chlorophenyl-phenylether	1	73.0432	0	100	73	70	130
Diethylphthalate	1	80.7207	0	100	81	50	130
4-Nitroaniline	1	101.5157	0	100	102	50	150
Atrazine	1	86.8914	0	100	87	50	130
n-Nitrosodiphenylamine	1	65.9118	0	100	66	50	130
1,2-Diphenylhydrazine	1	78.0813	0	100	78	70	130
4-Bromophenyl-phenylether	1	79.4198	0	100	79	70	130
Hexachlorobenzene	1	78.2835	0	100	78	70	130
N-Octadecane	1	93.3402	0	100	93	70	130
Phenanthrene	1	77.1998	0	100	77	70	130
Anthracene	1	77.6521	0	100	78	70	130
Carbazole	1	84.85	0	100	85	70	130
Di-n-butylphthalate	1	81.5915	0	100	82	70	130
Fluoranthene	1	81.5907	0	100	82	70	130
Pyrene	1	80.8941	0	100	81	70	130
Benzidine	1	27.0362	0	100	27	1	130
Butylbenzylphthalate	1	74.6232	0	100	75	50	130
3,3'-Dichlorobenzidine	1	108.0571	0	100	108	1	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: WMB66108

Benzo[a]anthracene	1	80.287	0	100	80	70	130
Chrysene	1	77.3795	0	100	77	50	130
bis(2-Ethylhexyl)phthalate	1	82.433	0	100	82	70	130
Di-n-octylphthalate	1	80.5147	0	100	81	70	130
Benzo[b]fluoranthene	1	83.3717	0	100	83	70	130
Benzo[k]fluoranthene	1	83.2373	0	100	83	70	130
Benzo[a]pyrene	1	77.0209	0	100	77	70	130
Indeno[1,2,3-cd]pyrene	1	82.347	0	100	82	70	130
Dibenzo[a,h]anthracene	1	79.9782	0	100	80	70	130
Benzo[g,h,i]perylene	1	76.0297	0	100	76	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: WMB66108

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M67918.D	AD02667-001(T)(MSD)	3/1/2018 4:05:00 PM
Duplicate(If applicable):	10M67917.D	AD02667-001(T)(MS)	3/1/2018 3:43:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	55.597	61.9455	11	20
Pyridine	1	58.8232	58.0812	1.3	40
N-Nitrosodimethylamine	1	64.23	73.3329	13	20
Benzaldehyde	1	149.8717	165.5702	10	20
Aniline	1	97.2626	93.3702	4.1	20
Pentachloroethane	1	80.1156	84.5766	5.4	20
bis(2-Chloroethyl)ether	1	53.733	63.3856	16	20
N-Decane	1	76.7142	81.5478	6.1	20
1,3-Dichlorobenzene	1	16.4385	28.0511	52*	20
1,4-Dichlorobenzene	1	16.558	28.8071	54*	40
1,2-Dichlorobenzene	1	18.1893	31.0885	52*	20
Benzyl alcohol	1	83.2287	95.5951	14	20
bis(2-chloroisopropyl)ether	1	34.2394	46.9647	31*	20
Acetophenone	1	84.491	89.7217	6	20
Hexachloroethane	1	15.7764	28.1838	56*	40
N-Nitroso-di-n-propylamine	1	57.9975	66.9408	14	40
Nitrobenzene	1	55.1257	65.0863	17	40
Isophorone	1	64.2944	73.339	13	20
Benzoic Acid	1	49.5608	53.6111	7.9	20
bis(2-Chloroethoxy)methane	1	62.393	71.8304	14	20
1,2,4-Trichlorobenzene	1	38.7014	52.702	31	40
Naphthalene	1	39.6984	51.973	27	40
4-Chloroaniline	1	113.8023	115.3731	1.4	20
Hexachlorobutadiene	1	31.2362	46.814	40	40
Caprolactam	1	86.1387	90.1675	4.6	20
2-Methylnaphthalene	1	78.5354	89.5404	13	20
1-Methylnaphthalene	1	72.7795	79.6909	9.1	20
1,1'-Biphenyl	1	79.3342	88.8588	11	20
1,2,4,5-Tetrachlorobenzene	1	82.7247	94.4005	13	20
Hexachlorocyclopentadiene	1	44.4426	60.1313	30*	20
2-Chloronaphthalene	1	60.1852	73.6148	20	20
1,4-Dimethylnaphthalene	1	82.6184	90.3923	9	20
Diphenyl Ether	1	85.0126	96.2453	12	20
2-Nitroaniline	1	95.4413	106.6106	11	20
Coumarin	1	98.0696	109.2793	11	20
Acenaphthylene	1	72.3449	84.6247	16	20
Dimethylphthalate	1	76.5926	85.7427	11	20
2,6-Dinitrotoluene	1	73.7575	82.0765	11	20
Acenaphthene	1	68.5107	80.1626	16	40
3-Nitroaniline	1	118.7946	116.6891	1.8	20
Dibenzofuran	1	89.9924	108.0193	18	20
2,4-Dinitrotoluene	1	73.3446	84.0999	14	40
Fluorene	1	74.5543	83.7054	12	40
4-Chlorophenyl-phenylether	1	73.0432	84.3945	14	20
Diethylphthalate	1	80.7207	91.1776	12	20
4-Nitroaniline	1	101.5157	106.7475	5	20
Atrazine	1	86.8914	93.5672	7.4	20
n-Nitrosodiphenylamine	1	65.9118	72.4008	9.4	20
1,2-Diphenylhydrazine	1	78.0813	86.4711	10	20
4-Bromophenyl-phenylether	1	79.4198	89.6995	12	20
Hexachlorobenzene	1	78.2835	89.2357	13	40
N-Octadecane	1	93.3402	101.4802	8.4	20
Phenanthrene	1	77.1998	85.0752	9.7	20
Anthracene	1	77.6521	86.2905	11	20
Carbazole	1	84.85	93.4939	9.7	20
Di-n-butylphthalate	1	81.5915	88.408	8	20
Fluoranthene	1	81.5907	89.4763	9.2	20
Pyrene	1	80.8941	89.9588	11	40
Benzidine	1	27.0362	24.2098	11	20
Butylbenzylphthalate	1	74.6232	88.2195	17	40
3,3'-Dichlorobenzidine	1	108.0571	109.5221	1.3	20
Benzo[a]anthracene	1	80.287	90.2905	12	20
Chrysene	1	77.3795	89.1176	14	20

Form3
RPD Data Laboratory Limits
QC Batch: WMB66108

bis(2-Ethylhexyl)phthalate	1	82.433	93.1275	12	20
Di-n-octylphthalate	1	80.5147	93.1692	15	20
Benzo[b]fluoranthene	1	83.3717	90.9555	8.7	20
Benzo[k]fluoranthene	1	83.2373	94.9376	13	20
Benzo[a]pyrene	1	77.0209	85.1004	10	20
Indeno[1,2,3-cd]pyrene	1	82.347	93.3164	12	20
Dibenzo[a,h]anthracene	1	79.9782	91.318	13	20
Benzo[g,h,i]perylene	1	76.0297	86.7541	13	20

* - Indicates outside of limits

NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: WMB66108
Blank Data File: 5M103139.D
Matrix: Aqueous

Blank Analysis Date: 03/01/18 15:04
Blank Extraction Date: 03/01/18
(If Applicable)
Method: EPA 8270D

Sample Number	Data File	Analysis Date
AD02799-002	5M103142.D	03/01/18 16:26
AD02667-001(T)(M	10M67918.D	03/01/18 16:05
AD02667-001(T)(M	10M67917.D	03/01/18 15:43
AD02667-001(T)	10M67916.D	03/01/18 15:21
WMB66108(MS)	10M67912.D	03/01/18 13:52

Form 5

Tune Name: CAL DFTPP **Data File:** 10M67809.D
Instrument: GCMS 10 **Analysis Date:** 02/23/18 08:45
Method: EPA 8270D

Tune Scan/Time Range: Average of 9.942 to 9.948 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	34.1	33968	PASS
68	69	0.00	2	1.9	719	PASS
69	198	0.00	100	37.7	37580	PASS
70	69	0.00	2	0.3	120	PASS
127	198	40	60	46.2	46028	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	99660	PASS
199	198	5	9	6.9	6901	PASS
275	198	10	30	24.8	24764	PASS
365	198	1	100	2.4	2408	PASS
441	443	0.01	100	68.2	7876	PASS
442	198	40	100	55.4	55224	PASS
443	442	17	23	20.9	11544	PASS

Data File	Sample Number	Analysis Date:
10M67810.D	CAL BNA@10PPM	02/23/18 09:15
10M67811.D	CAL BNA@10PPM	02/23/18 10:05
10M67812.D	CAL BNA@2PPM	02/23/18 10:27
10M67813.D	CAL BNA@196PP	02/23/18 10:49
10M67814.D	CAL BNA@160PP	02/23/18 11:11
10M67815.D	CAL BNA@120PP	02/23/18 11:33
10M67816.D	CAL BNA@80PPM	02/23/18 11:55
10M67817.D	CAL BNA@20PPM	02/23/18 12:17
10M67818.D	CAL BNA@.5PPM	02/23/18 12:40
10M67819.D	CAL BNA@50PPM	02/23/18 13:02
10M67820.D	ICV BNA@50PPM	02/23/18 13:24
10M67821.D	AD02489-021(T)	02/23/18 13:48
10M67822.D	AD02488-013(T)	02/23/18 14:10
10M67823.D	AD02488-005(T)	02/23/18 14:32
10M67824.D	AD02309-015(T)	02/23/18 14:54
10M67825.D	EF-SPLP V-273224	02/23/18 15:16
10M67826.D	EF-SPLP V-273224	02/23/18 15:39

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 5
Data File: 5M102988.D
Analysis Date: 02/23/18 08:50
Method: EPA 8270D

Tune Scan/Time Range: Scan 1429

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	41.7	58624	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.4	56776	PASS
70	69	0.00	2	0.6	343	PASS
127	198	40	60	50.9	71512	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	140608	PASS
199	198	5	9	6.5	9172	PASS
275	198	10	30	24.4	34328	PASS
365	198	1	100	2.6	3700	PASS
441	443	0.01	100	82.3	11750	PASS
442	198	40	100	53.9	75800	PASS
443	442	17	23	18.8	14272	PASS

Data File	Sample Number	Analysis Date:
5M102989.D	CAL BNA@10PPM	02/23/18 09:19
5M102990.D	CAL BNA@2PPM	02/23/18 09:46
5M102991.D	CAL BNA@196PP	02/23/18 10:09
5M102992.D	CAL BNA@160PP	02/23/18 10:33
5M102993.D	CAL BNA@120PP	02/23/18 10:56
5M102994.D	CAL BNA@80PPM	02/23/18 11:19
5M102995.D	CAL BNA@20PPM	02/23/18 11:43
5M102996.D	CAL BNA@.5PPM	02/23/18 12:06
5M102997.D	CAL BNA@50PPM	02/23/18 12:30
5M102998.D	ICV BNA@50PPM	02/23/18 12:55

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 10
Data File: 10M67906.D
Analysis Date: 03/01/18 09:28
Method: EPA 8270D

Tune Scan/Time Range: Average of 9.921 to 9.926 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	31.9	41348	PASS
68	69	0.00	2	2.0	900	PASS
69	198	0.00	100	35.5	45968	PASS
70	69	0.00	2	0.6	281	PASS
127	198	40	60	45.2	58516	PASS
197	198	0.00	1	0.3	347	PASS
198	198	100	100	100.0	129424	PASS
199	198	5	9	7.0	9005	PASS
275	198	10	30	25.2	32640	PASS
365	198	1	100	2.6	3419	PASS
441	443	0.01	100	70.3	12276	PASS
442	198	40	100	64.8	83860	PASS
443	442	17	23	20.8	17454	PASS

Data File	Sample Number	Analysis Date:
10M67907.D	CAL BNA@50PPM	03/01/18 09:50
10M67908.D	AD02551-003(T)	03/01/18 12:24
10M67909.D	AD02551-008(T)	03/01/18 12:46
10M67910.D	AD02552-022(T)	03/01/18 13:08
10M67911.D	AD02552-037(T)	03/01/18 13:30
10M67912.D	WMB66108(MS)	03/01/18 13:52
10M67913.D	WMB66109(MS)	03/01/18 14:14
10M67914.D	WMB66108	03/01/18 14:37
10M67915.D	WMB66109	03/01/18 14:59
10M67916.D	AD02667-001(T)	03/01/18 15:21
10M67917.D	AD02667-001(T)(M	03/01/18 15:43
10M67918.D	AD02667-001(T)(M	03/01/18 16:05
10M67919.D	AD02815-001	03/01/18 16:27
10M67920.D	AD02815-001(MS)	03/01/18 16:49
10M67921.D	AD02815-001(MSD	03/01/18 17:11
10M67922.D	AD02792-001	03/01/18 17:34
10M67923.D	AD02792-002	03/01/18 17:56
10M67924.D	AD02843-003	03/01/18 18:18
10M67925.D	AD02826-011	03/01/18 18:40
10M67926.D	AD02838-001	03/01/18 19:02
10M67927.D	AD02838-002	03/01/18 19:24
10M67928.D	AD02838-003	03/01/18 19:46
10M67929.D	AD02815-002	03/01/18 20:08
10M67930.D	AD02815-003	03/01/18 20:30
10M67931.D	AD02815-004	03/01/18 20:52
10M67932.D	AD02815-005	03/01/18 21:15
10M67933.D	AD02815-006	03/01/18 21:37

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 5
Data File: 5M103126.D
Analysis Date: 03/01/18 09:55
Method: EPA 8270D

Tune Scan/Time Range: Average of 10.005 to 10.011 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	47.0	34516	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	47.0	34516	PASS
70	69	0.00	2	0.4	125	PASS
127	198	40	60	53.4	39188	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	73432	PASS
199	198	5	9	6.9	5064	PASS
275	198	10	30	23.4	17149	PASS
365	198	1	100	2.2	1591	PASS
441	443	0.01	100	66.8	4551	PASS
442	198	40	100	42.7	31368	PASS
443	442	17	23	21.7	6817	PASS

Data File	Sample Number	Analysis Date:
5M103127.D	CAL BNA@50PPM	03/01/18 10:19
5M103128.D	WMB66100	03/01/18 10:45
5M103129.D	EF-SPLP V-273224	03/01/18 11:12
5M103130.D	EF-SPLP V-273224	03/01/18 11:35
5M103131.D	EF-SPLP V-273224	03/01/18 11:58
5M103132.D	EF-SPLP V-273224	03/01/18 12:21
5M103133.D	EF-SPLP V-273224	03/01/18 12:45
5M103134.D	AD02534-066(T)	03/01/18 13:08
5M103135.D	AD02534-068(T)	03/01/18 13:31
5M103136.D	AD02534-073(T)	03/01/18 13:54
5M103137.D	AD02688-004(R)	03/01/18 14:17
5M103138.D	AD02535-003(T)	03/01/18 14:40
5M103139.D	WMB66108	03/01/18 15:04
5M103140.D	WMB66109	03/01/18 15:27
5M103141.D	AD02833-001	03/01/18 16:03
5M103142.D	AD02799-002	03/01/18 16:26
5M103143.D	AD02837-001	03/01/18 16:50
5M103144.D	AD02837-002	03/01/18 17:13
5M103145.D	AD02837-004	03/01/18 17:36
5M103146.D	AD02837-003	03/01/18 17:59
5M103147.D	AD02820-001	03/01/18 18:22
5M103148.D	AD02791-001	03/01/18 18:46
5M103149.D	AD02791-002	03/01/18 19:09
5M103150.D	AD02791-003	03/01/18 19:32
5M103151.D	AD02812-001	03/01/18 19:56
5M103152.D	AD02834-001	03/01/18 20:19
5M103153.D	AD02834-002	03/01/18 20:43

FORM8

Internal Standard Areas

Evaluation Std Data File: 5M102997.D Method: EPA 8270D

Analysis Date/Time: 02/23/18 12:30

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	38748	2.67	83962	5.84	306402	6.85	186462	8.27	337820	9.74	389690	12.80	360013	14.42
Eval File Area Limit:	19374-77496		41981-167924		153201-612804		93231-372924		168910-675640		194845-779380		180006-720026	
Eval File Rt Limit:	2.17-3.17		5.34-6.34		6.35-7.35		7.77-8.77		9.24-10.24		12.3-13.3		13.92-14.92	

Data File	Sample													
5M102989.D	CAL BNA@10PPM	40093	2.65	86370	5.84	319077	6.84	196105	8.27	342095	9.74	404067	12.79	374040	14.42
5M102990.D	CAL BNA@2PPM	39347	2.64	85631	5.84	321439	6.84	195828	8.27	356259	9.74	428055	12.79	394669	14.42
5M102991.D	CAL BNA@196PPM	35687	2.65	76858	5.84	281471	6.85	171085	8.28	306113	9.74	370215	12.80	339425	14.42
5M102992.D	CAL BNA@160PPM	39091	2.65	85199	5.84	310688	6.85	188858	8.28	335747	9.74	391109	12.80	373082	14.42
5M102993.D	CAL BNA@120PPM	37679	2.65	81855	5.84	305816	6.85	180346	8.28	319724	9.74	366106	12.80	339587	14.42
5M102994.D	CAL BNA@80PPM	37090	2.65	80336	5.84	298295	6.85	181974	8.27	321122	9.74	367776	12.80	341256	14.42
5M102995.D	CAL BNA@20PPM	38431	2.65	84204	5.84	311033	6.85	188005	8.27	336752	9.74	384833	12.79	355717	14.42
5M102996.D	CAL BNA@.5PPM	38889	2.65	85411	5.84	320245	6.84	197731	8.27	357834	9.74	414364	12.79	374662	14.42
5M102997.D	CAL BNA@50PPM	38748	2.67	83962	5.84	306402	6.85	186462	8.27	337820	9.74	389690	12.80	360013	14.42
5M102998.D	ICV BNA@50PPM	37122	2.65	78586	5.84	292768	6.85	176112	8.27	328314	9.74	359370	12.79	340013	14.42

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12	**625/8270 Internal Standard concentration = 40 mg/L (in final extract)**
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10			**624/8260 Internal Standard concentration = 30ug/L**
I3 =	Naphthalene-d8	I6 =	Chrysene-d12			**524 Internal Standard concentration =5ug/L**

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 10M67819.D Method: EPA 8270D

Analysis Date/Time: 02/23/18 13:02

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	61867	2.56	121382	5.78	455643	6.78	286677	8.19	494937	9.64	569798	12.69	564310	14.29
Eval File Area Limit:	30934-123734		60691-242764		227822-911286		143338-573354		247468-989874		284899-1139596		282155-1128620	
Eval File Rt Limit:	2.06-3.06		5.28-6.28		6.28-7.28		7.69-8.69		9.14-10.14		12.19-13.19		13.79-14.79	

Data File	Sample													
10M67811.D	CAL BNA@10PPM	63313	2.56	119862	5.78	440301	6.78	273234	8.19	475990	9.64	545223	12.68	516017	14.29
10M67812.D	CAL BNA@2PPM	62406	2.56	116822	5.78	429630	6.78	273416	8.19	477118	9.64	561098	12.68	532593	14.29
10M67813.D	CAL BNA@196PPM	60188	2.55	117277	5.78	460646	6.78	290010	8.20	509307	9.65	553133	12.70	573772	14.30
10M67814.D	CAL BNA@160PPM	61836	2.55	124794	5.78	483066	6.78	300607	8.20	523392	9.65	571791	12.70	589665	14.30
10M67815.D	CAL BNA@120PPM	59902	2.56	116516	5.78	449752	6.78	282460	8.19	479797	9.65	543505	12.69	544504	14.30
10M67816.D	CAL BNA@80PPM	61561	2.56	120226	5.78	446583	6.78	281114	8.19	488011	9.64	555782	12.69	546765	14.29
10M67817.D	CAL BNA@20PPM	61972	2.56	122830	5.78	461545	6.78	285502	8.19	489135	9.64	569662	12.69	557762	14.29
10M67818.D	CAL BNA@.5PPM	62188	2.56	119446	5.78	447989	6.78	277645	8.19	476064	9.64	563758	12.68	544910	14.29
10M67819.D	CAL BNA@50PPM	61867	2.56	121382	5.78	455643	6.78	286677	8.19	494937	9.64	569798	12.69	564310	14.29
10M67820.D	ICV BNA@50PPM	59467	2.56	116763	5.78	438514	6.78	275426	8.19	479741	9.65	551128	12.69	532544	14.29
10M67821.D	AD02489-021(T)	55909	2.56	104342	5.78	391276	6.78	245154	8.19	418354	9.64	481482	12.68	462431	14.29
10M67822.D	AD02488-013(T)	59698	2.56	111693	5.78	426197	6.78	261163	8.19	453753	9.64	506199	12.68	481200	14.29
10M67823.D	AD02488-005(T)	54105	2.56	99664	5.78	384454	6.78	230193	8.19	397596	9.64	457205	12.68	430023	14.29
10M67824.D	AD02309-015(T)	56528	2.56	104454	5.78	401548	6.78	244907	8.19	423732	9.64	466983	12.68	440823	14.29
10M67825.D	EF-SPLP V-273224(0	60865	2.56	115676	5.78	429381	6.78	257454	8.19	454093	9.64	504138	12.68	480117	14.29
10M67826.D	EF-SPLP V-273224(0	61590	2.56	113305	5.78	426243	6.78	262653	8.19	458699	9.64	502519	12.68	471054	14.29

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

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FORM8

Internal Standard Areas

Evaluation Std Data File: 10M67907.D Method: EPA 8270D

Analysis Date/Time: 03/01/18 09:50

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	65785	2.56	137297	5.78	517648	6.78	316233	8.19	526411	9.65	637587	12.69	620834	14.30
Eval File Area Limit:	32892-131570		68648-274594		258824-1035296		158116-632466		263206-1052822		318794-1275174		310417-1241668	
Eval File Rt Limit:	2.06-3.06		5.28-6.28		6.28-7.28		7.69-8.69		9.15-10.15		12.19-13.19		13.8-14.8	

Data File	Sample													
10M67908.D	AD02551-003(T)	60659	2.56	124320	5.77	459116	6.78	275834	8.19	479943	9.64	535154	12.69	504603	14.30
10M67909.D	AD02551-008(T)	61009	2.56	124029	5.78	456580	6.78	279158	8.19	485729	9.64	551062	12.69	517665	14.30
10M67910.D	AD02552-022(T)	59972	2.57	119095	5.78	443675	6.78	266269	8.19	463730	9.64	519109	12.69	485662	14.30
10M67911.D	AD02552-037(T)	63550	2.56	123718	5.78	459226	6.78	286292	8.19	484661	9.64	545465	12.69	492532	14.29
10M67912.D	WMB66108(MS)	62392	2.57	125927	5.78	466918	6.78	287214	8.19	485485	9.65	555581	12.69	533645	14.30
10M67913.D	WMB66109(MS)	61413	2.56	125187	5.78	465584	6.78	279069	8.19	474583	9.65	528152	12.69	529749	14.30
10M67914.D	WMB66108	62269	2.56	128998	5.78	471370	6.78	281330	8.19	493497	9.64	549506	12.69	523306	14.30
10M67915.D	WMB66109	63033	2.56	127222	5.78	473550	6.78	289556	8.19	494716	9.64	545946	12.69	504394	14.30
10M67916.D	AD02667-001(T)	66197	2.56	138561	5.78	524980	6.78	334233	8.19	579966	9.64	669813	12.69	633032	14.30
10M67917.D	AD02667-001(T)(MS)	66544	2.57	130287	5.78	487690	6.78	295480	8.19	513601	9.65	577404	12.69	563979	14.30
10M67918.D	AD02667-001(T)(MSD	61837	2.57	125684	5.78	471009	6.78	287355	8.19	485975	9.65	547949	12.69	520340	14.30
10M67919.D	AD02815-001	57317	2.56	114919	5.78	440717	6.78	251093	8.19	447441	9.64	502434	12.69	460242	14.30
10M67920.D	AD02815-001(MS)	63829	2.57	128413	5.78	475601	6.78	292398	8.19	487553	9.65	546441	12.69	541973	14.30
10M67921.D	AD02815-001(MSD)	63133	2.56	133033	5.78	492186	6.78	297110	8.19	519226	9.65	593048	12.69	553532	14.30
10M67922.D	AD02792-001	70333	2.56	136395	5.78	506961	6.78	311855	8.19	534785	9.64	615861	12.69	569437	14.30
10M67923.D	AD02792-002	60709	2.56	116180	5.78	429761	6.78	265605	8.19	452407	9.64	512369	12.69	473411	14.30
10M67924.D	AD02843-003	59005	2.56	120601	5.78	454024	6.78	273947	8.19	467827	9.64	512671	12.69	478539	14.30
10M67925.D	AD02826-011	67251	2.57	126321	5.78	471639	6.78	287621	8.19	506462	9.64	579501	12.69	541569	14.30
10M67926.D	AD02838-001	63903	2.57	128528	5.78	480344	6.78	300554	8.19	526264	9.65	580437	12.69	537113	14.30
10M67927.D	AD02838-002	61928	2.57	127185	5.78	449291	6.78	276977	8.19	482716	9.65	562000	12.69	518857	14.30
10M67928.D	AD02838-003	59763	2.56	120309	5.78	455267	6.78	275642	8.19	476843	9.64	528723	12.69	498683	14.30

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12	**625/8270 Internal Standard concentration = 40 mg/L (in final extract)**
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10			**624/8260 Internal Standard concentration = 30ug/L**
I3 =	Naphthalene-d8	I6 =	Chrysene-d12			**524 Internal Standard concentration =5ug/L**

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

FORM8

Internal Standard Areas

Evaluation Std Data File: 5M103127.D Method: EPA 8270D

Analysis Date/Time: 03/01/18 10:19

Lab File ID: CAL BNA@50PPM

	I1		I2		I3		I4		I5		I6		I7	
	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT	Area	RT
Eval File Area/RT:	32837	2.64	76189	5.84	277561	6.84	169476	8.27	309789	9.74	370476	12.80	328723	14.42
Eval File Area Limit:	16418-65674		38094-152378		138780-555122		84738-338952		154894-619578		185238-740952		164362-657446	
Eval File Rt Limit:	2.14-3.14		5.34-6.34		6.34-7.34		7.77-8.77		9.24-10.24		12.3-13.3		13.92-14.92	

Data File	Sample													
5M103128.D	WMB66100	32063	2.64	81686	5.84	306153	6.84	191686	8.27	350575	9.74	386809	12.79	356469	14.42
5M103129.D	EF-SPLP V-273224(0	28657	2.65	65534	5.84	240333	6.84	148696	8.27	270819	9.74	303851	12.79	277789	14.42
5M103130.D	EF-SPLP V-273224A(	27039	2.65	66092	5.84	246817	6.84	150987	8.27	279176	9.74	304169	12.79	276836	14.42
5M103131.D	EF-SPLP V-273224B(	28728	2.64	68087	5.84	250446	6.84	154764	8.27	282745	9.74	315623	12.79	278478	14.42
5M103132.D	EF-SPLP V-273224A(	23062	2.65	54586	5.84	199852	6.84	121240	8.27	224125	9.74	245042	12.79	241966	14.42
5M103133.D	EF-SPLP V-273224B(	22032	2.65	52496	5.84	195874	6.84	120229	8.27	220018	9.73	246335	12.79	221546	14.42
5M103134.D	AD02534-066(T)	28368	2.65	63895	5.84	235831	6.84	144473	8.27	263930	9.74	297651	12.79	276925	14.42
5M103135.D	AD02534-068(T)	27256	2.64	60796	5.84	225447	6.84	137043	8.27	253596	9.74	285067	12.79	256363	14.42
5M103136.D	AD02534-073(T)	30688	2.65	63560	5.84	237602	6.84	132226	8.27	260606	9.74	314663	12.79	289518	14.42
5M103137.D	AD02688-004(R)	29087	2.65	59745	5.84	210874	6.84	122561	8.27	250723	9.74	277538	12.79	240294	14.42
5M103138.D	AD02535-003(T)	30703	2.65	71716	5.84	260619	6.84	156511	8.27	283922	9.74	312608	12.79	279360	14.42
5M103139.D	WMB66108	32266	2.65	70557	5.84	260535	6.84	156603	8.27	282974	9.73	323290	12.79	297406	14.42
5M103140.D	WMB66109	31842	2.65	70835	5.84	260974	6.84	157105	8.27	292049	9.74	318480	12.79	292859	14.42
5M103141.D	AD02833-001	25448	2.65	56505	5.84	213110	6.84	126742	8.27	228951	9.74	252210	12.79	228785	14.42
5M103142.D	AD02799-002	33839	2.65	74598	5.84	272412	6.84	161204	8.27	304032	9.74	353951	12.79	321537	14.42
5M103143.D	AD02837-001	26796	2.64	65388	5.84	242909	6.84	149830	8.27	266928	9.74	306515	12.79	271604	14.42
5M103144.D	AD02837-002	34600	2.65	78756	5.84	283641	6.84	168477	8.27	292309	9.74	317184	12.79	301697	14.42
5M103145.D	AD02837-004	28796	2.64	68985	5.84	252132	6.84	151219	8.27	281601	9.74	315791	12.79	284488	14.42
5M103146.D	AD02837-003	30967	2.67	68412	5.84	236964	6.84	144111	8.27	257955	9.74	296268	12.79	263340	14.42

I1 =	1,4-Dioxane-d8(INT)	I4 =	Acenaphthene-d10	I7 =	Perylene-d12
I2 =	1,4-Dichlorobenzene-d4	I5 =	Phenanthrene-d10		
I3 =	Naphthalene-d8	I6 =	Chrysene-d12		

625/8270 Internal Standard concentration = 40 mg/L (in final extract)
624/8260 Internal Standard concentration = 30ug/L
524 Internal Standard concentration =5ug/L

Internal Standard Areas

Upper Limit = + 100% of internal standard area from daily cal or mid pt.

Lower Limit = - 50% of internal standard area from daily cal or mid pt.

Flags:

A - Indicates the compound failed the internal standard area criteria

R - Indicates the compound failed the internal standard retention time criteria.

Retention Times: Limit = within +/- 0.5 min of internal standard retention time from the daily cal or mid pt.

GC/MS Base Neutral/Acid Extractable Data
Sample Data

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: AD02799-002
Client Id: WC_02232018
Data File: 5M103142.D
Analysis Date: 03/01/18 16:26
Date Rec/Extracted: 02/26/18-03/01/18
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	191-24-2	Benzo[g,h,i]perylene	0.50	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	0.50	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	**2,4-Dimethylphenol**	**0.50**	**0.52**	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.50	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.50	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.50	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	2.7	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U				

Worksheet #: 455669

Total Target Concentration 0.52

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

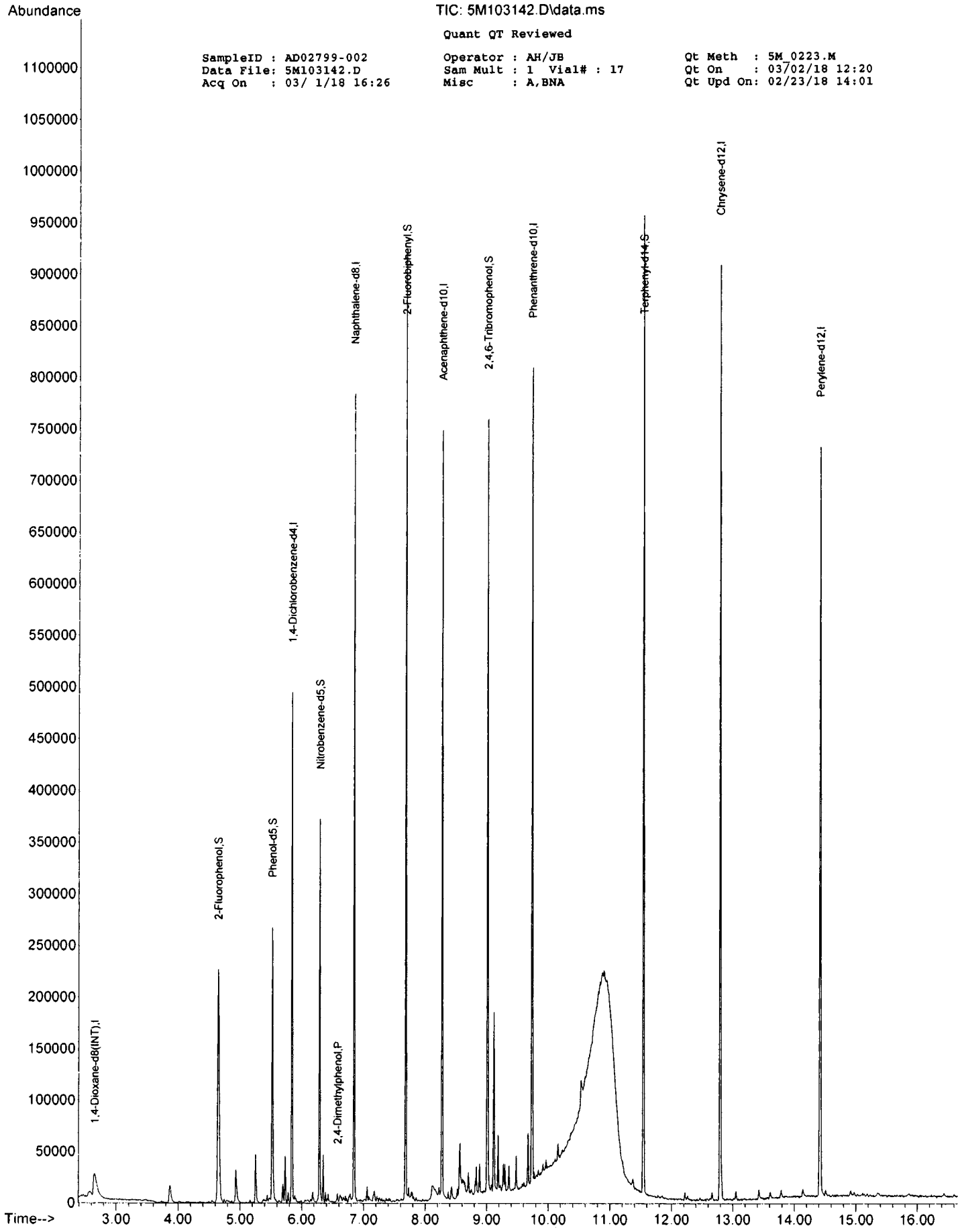
SampleID : AD02799-002 Operator : AH/JB Qt Meth : 5M_0223.M
Data File: 5M103142.D Sam Mult : 1 Vial# : 17 Qt On : 03/02/18 12:20
Acq On : 03/ 1/18 16:26 Misc : A,BNA Qt Upd On: 02/23/18 14:01

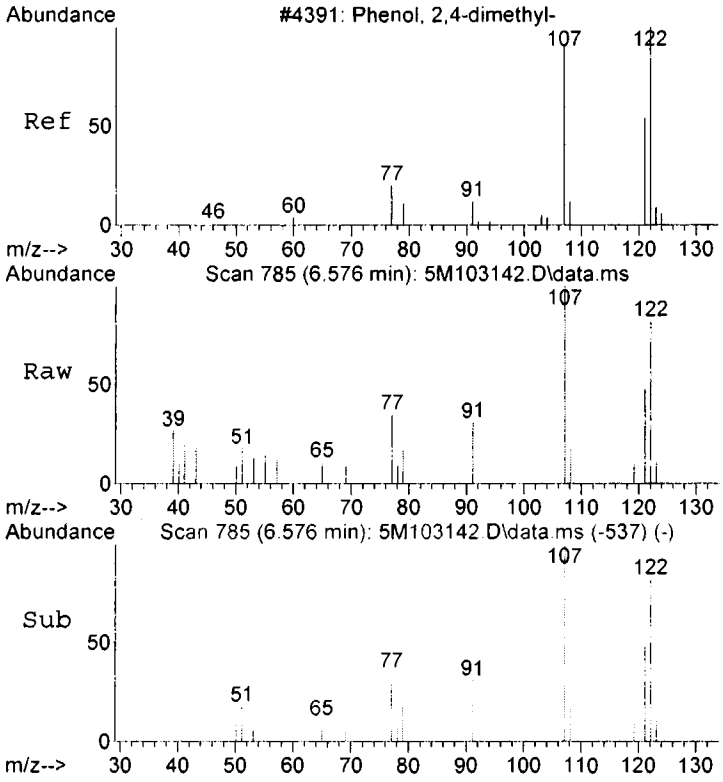
Data Path : G:\GcMsData\2018\GCMS_5\Data\03-01-18\
Qt Path : G:\GCMSDATA\2018\GCMS_5\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.649	96	33839	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.838	152	74598	40.00	ng	0.00
31) Naphthalene-d8	6.843	136	272412	40.00	ng	0.00
50) Acenaphthene-d10	8.269	164	161204	40.00	ng	0.00
77) Phenanthrene-d10	9.738	188	304032	40.00	ng	0.00
91) Chrysene-d12	12.794	240	353951	40.00	ng	0.00
103) Perylene-d12	14.418	264	321537	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.642	112	106096	47.26	ng	-0.01
Spiked Amount 100.000			Recovery = 47.26%			
16) Phenol-d5	5.518	99	90301	31.79	ng	0.00
Spiked Amount 100.000			Recovery = 31.79%			
32) Nitrobenzene-d5	6.287	128	43430	39.53	ng	0.00
Spiked Amount 50.000			Recovery = 79.06%			
55) 2-Fluorobiphenyl	7.681	172	239198	43.14	ng	0.00
Spiked Amount 50.000			Recovery = 86.28%			
80) 2,4,6-Tribromophenol	9.012	330	72738	91.63	ng	0.00
Spiked Amount 100.000			Recovery = 91.63%			
94) Terphenyl-d14	11.544	244	285977	50.33	ng	0.00
Spiked Amount 50.000			Recovery = 100.66%			
Target Compounds						Qvalue
36) 2,4-Dimethylphenol	6.576	107	1486	0.5222	ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed



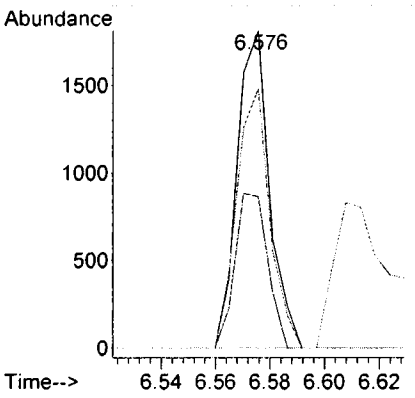

Abundance
TIC: 5M103142.D\data.ms
Quant QT Reviewed
SampleID : AD02799-002
Data File: 5M103142.D
Acq On : 03/ 1/18 16:26
Operator : AH/JB
Sam Mult : 1 Vial# : 17
Misc : A,BNA
Qt Meth : 5M_0223.M
Qt On : 03/02/18 12:20
Qt Upd On: 02/23/18 14:01
1.4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
2,4-Dimethylphenol,P
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->



#36
2,4-Dimethylphenol
Concen: 0.52 ng
RT: 6.576 min Scan# 785
Delta R.T. 0.000 min
Lab File: 5M103142.D
Acq: 1 Mar 2018 16:26

Tgt Ion:107 Resp: 1486

Ion	Ratio	Lower	Upper
107	100		
121	47.7	6.5	86.5
122	81.5	43.9	123.9



GC/MS Base Neutral/Acid Extractable Data
Standards Data

Method: EPA 8270D

Form 6
Initial Calibration

Instrument: GCMS_5

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	5M102997.D	CAL BNA@50PPM	02/23/18 12:30	2	5M102990.D	CAL BNA@2PPM	02/23/18 09:46
3	5M102989.D	CAL BNA@10PPM	02/23/18 09:19	4	5M102995.D	CAL BNA@20PPM	02/23/18 11:43
5	5M102994.D	CAL BNA@80PPM	02/23/18 11:19	6	5M102993.D	CAL BNA@120PPM	02/23/18 10:56
7	5M102992.D	CAL BNA@160PPM	02/23/18 10:33	8	5M102991.D	CAL BNA@196PPM	02/23/18 10:09
9	5M102996.D	CAL BNA@.5PPM	02/23/18 12:06				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Avg	1.0537	0.9245	1.0719	1.1416	1.1197	1.0210	1.0030	1.0751	1.2836	1.08	2.69	0.997	0.997	9.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	3.4196	3.8462	3.1217	3.2371	3.6665	3.4291	3.3423	3.5712	-----	3.45	3.17	0.998	0.998	6.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.9248	1.9122	1.6348	1.9160	2.0238	1.9458	1.8859	1.9760	-----	1.90	3.10	0.999	0.999	6.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.6474	2.6700	2.3240	2.6401	2.7952	2.6946	2.6741	2.7834	-----	2.65	4.65	0.999	0.999	5.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Qua	1.8715	2.2842	1.9802	2.2900	1.7678	1.4629	1.3098	-----	-----	1.85	5.47	0.970	0.998	20	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0		
Aniline	1	0	Qua	4.6100	3.3161	3.2522	4.4336	4.9657	4.5712	4.4613	4.5617	3.4889	4.18	5.57	0.998	0.999	15		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.9331	0.9693	0.8330	0.9610	1.0004	0.9376	0.9086	0.9520	-----	0.937	5.60	0.998	0.998	5.3	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	3.1397	3.5621	2.9642	3.2157	3.4108	3.1619	3.0730	3.2749	3.9661	3.31	5.62	0.998	0.998	9.2	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	3.3798	3.5774	2.9491	3.4202	3.5650	3.3427	3.2386	3.3880	-----	3.36	5.52	0.998	0.998	5.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	4.3031	4.5843	3.8832	4.3014	4.6331	4.2609	4.1647	4.3107	-----	4.31	5.53	0.998	0.998	5.4	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	3.1544	3.6856	2.8197	3.1528	3.4233	3.1770	3.0899	3.2394	-----	3.22	5.66	0.999	0.999	7.8	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	3.2595	3.6826	2.9664	3.3470	3.5092	3.2355	3.1588	3.2397	-----	3.30	5.70	0.998	0.999	6.6	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	3.4566	3.9855	3.1538	3.5177	3.7238	3.4526	3.3778	3.5335	-----	3.53	5.79	0.998	0.998	7.0		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.6266	1.9595	1.4934	1.6605	1.7288	1.6279	1.5890	1.6647	-----	1.67	5.85	0.999	0.999	8.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.5419	1.7883	1.4420	1.5760	1.6544	1.5495	1.5118	1.5487	-----	1.58	5.98	0.999	0.999	6.6		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.8989	0.7721	0.6893	0.8660	0.9839	0.9481	0.9202	0.9772	-----	0.882	5.96	0.998	0.998	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	2.2868	2.6831	2.1278	2.3264	2.4549	2.2508	2.1840	2.2861	-----	2.33	6.06	0.998	0.998	7.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.3712	1.7540	1.3095	1.4078	1.4556	1.3720	1.3235	1.3832	1.7505	1.46	6.04	0.999	0.999	12	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.7525	2.0812	1.6532	1.8699	1.9111	1.7797	1.7108	1.7932	-----	1.82	6.17	0.999	0.999	7.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.6165	0.7420	0.5534	0.6265	0.6590	0.6284	0.6062	0.6446	-----	0.635	6.26	0.998	0.998	8.4	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	1.0717	1.2138	1.0307	1.1049	1.1640	1.0473	1.0028	1.0463	1.3815	1.12	6.17	0.997	0.998	11	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Avg	1.3965	1.5683	1.3413	1.4845	1.5258	1.3919	1.3385	1.3976	1.6653	1.46	6.16	0.998	0.998	7.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1604	0.1579	0.1414	0.1587	0.1750	0.1630	0.1631	0.1708	-----	0.161	6.29	0.999	0.999	6.2		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.4361	0.4600	0.3859	0.4313	0.4592	0.4267	0.4298	0.4422	-----	0.434	6.30	0.999	0.999	5.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.7845	0.8358	0.6995	0.7770	0.8331	0.7748	0.7578	0.8002	-----	0.783	6.49	0.998	0.998	5.6	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.2066	0.2048	0.1770	0.2020	0.2211	0.2109	0.2081	0.2198	-----	0.206	6.55	0.998	0.999	6.6	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.4190	0.4455	0.3732	0.4076	0.4452	0.4102	0.4091	0.4255	0.4251	0.418	6.58	0.999	0.999	5.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.2560	-----	0.1151	0.1959	0.3034	0.2855	0.2982	0.3099	-----	0.252	6.65	0.998	0.998	29		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.4604	0.5019	0.4137	0.4598	0.4761	0.4464	0.4426	0.4643	-----	0.458	6.65	0.999	0.999	5.6	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.3359	0.3402	0.3011	0.3380	0.3585	0.3347	0.3274	0.3469	0.3010	0.332	6.74	0.998	0.998	5.8	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3671	0.4244	0.3367	0.3800	0.3978	0.3648	0.3662	0.3859	-----	0.378	6.80	0.998	0.998	6.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Avg	1.1998	1.3707	1.1045	1.2496	1.2892	1.1812	1.1566	1.2056	1.5777	1.26	6.86	0.998	0.998	11	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Qua	0.4278	0.3624	0.3373	0.4285	0.4065	0.3235	0.2605	0.2255	0.3567	0.348	6.90	0.913	0.997	20	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.2270	0.2628	0.2061	0.2245	0.2381	0.2307	0.2295	0.2445	-----	0.233	6.95	0.998	0.999	7.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Avg	0.1085	0.0840	0.0946	0.1099	0.1192	0.1191	0.1205	0.1264	-----	0.110	7.17	0.998	1.00	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.3408	0.3501	0.3170	0.3461	0.3661	0.3444	0.3430	0.3613	-----	0.346	7.26	0.998	0.999	4.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.7949	0.9071	0.7466	0.8118	0.8371	0.7662	0.7782	0.8118	-----	0.807	7.40	0.998	0.998	6.2	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.7659	0.8611	0.7150	0.7865	0.8199	0.7521	0.7493	0.7773	-----	0.778	7.48	0.998	0.998	5.8	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (	1	0	Avg	0.7763	0.8857	0.7276	0.7931	0.8238	0.7545	0.7590	0.7903	-----	0.789	7.40	0.999	0.999	6.2		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8724	0.9819	0.7956	0.8872	0.9186	0.8342	0.8519	0.9001	-----	0.880	7.77	0.997	0.998	6.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.5775	0.6300	0.5270	0.5812	0.5981	0.5907	0.5726	0.6151	-----	0.587	7.53	0.998	0.998	5.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.39

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

8022605 0177

Method: EPA 8270D

Form 6
Initial Calibration

Instrument: GCMS_5

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	5M102997.D	CAL BNA@50PPM	02/23/18 12:30	2	5M102990.D	CAL BNA@2PPM	02/23/18 09:46
3	5M102989.D	CAL BNA@10PPM	02/23/18 09:19	4	5M102995.D	CAL BNA@20PPM	02/23/18 11:43
5	5M102994.D	CAL BNA@80PPM	02/23/18 11:19	6	5M102993.D	CAL BNA@120PPM	02/23/18 10:56
7	5M102992.D	CAL BNA@160PPM	02/23/18 10:33	8	5M102991.D	CAL BNA@196PPM	02/23/18 10:09
9	5M102996.D	CAL BNA@.5PPM	02/23/18 12:06				

Compound	Col	Mr	Fit	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Avg	0.3942	0.3039	0.3035	0.3766	0.4399	0.4335	0.4307	0.4594	-----	0.393	7.52	0.998	0.999	15	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.4001	0.4420	0.3726	0.4171	0.4342	0.4234	0.4046	0.4244	-----	0.415	7.62	0.999	0.999	5.3	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.4397	0.4555	0.3916	0.4468	0.4514	0.4483	0.4340	0.4372	-----	0.438	7.65	1.00	1.00	4.6	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.3456	1.5076	1.2302	1.3684	1.4474	1.3716	1.3244	1.4121	-----	1.38	7.68	0.999	0.999	6.1		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Avg	1.2166	1.4059	1.1220	1.2712	1.2588	1.2183	1.1943	1.2387	-----	1.24	7.79	0.999	0.999	6.5	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.8866	1.0032	0.8271	0.9127	0.9291	0.8925	0.8707	0.9265	-----	0.906	8.08	0.998	0.998	5.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.8866	1.0032	0.8271	0.9127	0.9291	0.8925	0.8707	0.9265	-----	0.906	8.08	0.998	0.998	5.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.8115	0.9477	0.7205	0.8268	0.8527	0.8052	0.8040	0.8426	-----	0.826	7.85	0.999	0.999	7.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Avg	0.4600	0.4437	0.3773	0.4492	0.4905	0.4672	0.4546	0.4807	-----	0.453	7.87	0.998	0.998	7.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4342	0.4587	0.3936	0.4488	0.4548	0.4352	0.4158	0.4522	-----	0.437	8.06	0.997	0.997	5.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.8954	2.0782	1.7219	1.9320	1.9673	1.8875	1.8232	1.9665	-----	1.91	8.16	0.997	0.998	5.6	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.4269	1.5984	1.2727	1.4637	1.5032	1.4326	1.3891	1.4817	-----	1.45	8.02	0.998	0.998	6.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Avg	0.3113	0.3001	0.2619	0.3154	0.3305	0.3255	0.3162	0.3366	-----	0.312	8.08	0.998	0.999	7.5	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.2445	1.4420	1.1224	1.2652	1.2918	1.2440	1.2184	1.2925	-----	1.27	8.31	0.998	0.999	7.1	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Qua	0.3254	0.3006	0.2597	0.3260	0.3370	0.3101	0.2811	0.2964	-----	0.305	8.23	0.994	0.996	8.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1789	-----	0.1249	0.1548	0.2087	0.2081	0.2077	0.2201	-----	0.186	8.32	0.998	0.999	19	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Avg	1.8143	2.0167	1.6556	1.8593	1.8922	1.8270	1.7525	1.8969	2.2976	1.89	8.46	0.998	0.998	9.7	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Avg	0.4155	0.3585	0.3495	0.4106	0.4498	0.4291	0.4184	0.4487	-----	0.410	8.43	0.998	0.998	9.2	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2979	0.2299	0.2389	0.2695	0.3247	0.3170	0.3097	0.3303	-----	0.290	8.35	0.998	0.998	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3926	0.3656	0.3379	0.3951	0.4210	0.4032	0.3940	0.4250	-----	0.392	8.56	0.997	0.998	7.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.4781	1.5991	1.3301	1.4914	1.5221	1.4699	1.4215	1.5495	-----	1.48	8.78	0.997	0.997	5.5	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.7301	0.7853	0.6592	0.7440	0.7723	0.7443	0.7125	0.7905	-----	0.742	8.77	0.996	0.996	5.8	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.4197	1.5545	1.2654	1.4350	1.4791	1.4504	1.4204	1.4979	-----	1.44	8.65	0.999	0.999	5.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Avg	0.3869	0.3303	0.3217	0.3809	0.4127	0.3915	0.3817	0.4122	-----	0.377	8.79	0.997	0.998	9.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Qua	0.3976	0.3765	0.3409	0.3853	0.4219	0.3993	0.3852	0.4186	-----	0.391	9.41	0.998	0.998	6.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.1230	-----	0.0942	0.1136	0.1465	0.1472	0.1439	0.1529	-----	0.132	8.82	0.998	0.998	17	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.6900	0.7675	0.6503	0.7179	0.7528	0.7112	0.6823	0.7366	-----	0.714	8.88	0.998	0.998	5.4	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Avg	0.1086	0.0970	0.0937	0.1021	0.1139	0.1075	0.1044	0.1080	-----	0.104	9.02	0.999	0.999	6.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.8194	0.9192	0.8153	0.9061	0.8541	0.9186	0.8714	0.9225	-----	0.878	8.93	0.998	0.999	5.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2360	0.2595	0.2251	0.2503	0.2517	0.2489	0.2371	0.2571	-----	0.246	9.26	0.997	0.998	4.8	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2579	0.2808	0.2397	0.2621	0.2650	0.2543	0.2426	0.2613	-----	0.258	9.33	0.997	0.998	5.0	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Avg	0.4714	0.4678	0.4404	0.4841	0.5025	0.4833	0.4559	0.4815	-----	0.473	9.59	0.998	0.998	4.0	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1617	0.0906	0.1282	0.1484	0.1809	0.1793	0.1714	0.1858	-----	0.156	9.52	0.997	0.998	21	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.1712	1.3818	1.1268	1.1814	1.2613	1.1972	1.1628	1.2095	-----	1.21	9.76	0.999	0.999	6.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.1942	1.3018	1.1463	1.2175	1.3116	1.2137	1.1986	1.2578	-----	1.23	9.82	0.998	0.998	4.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.1178	1.1566	1.0509	1.1276	1.1795	1.1212	1.0748	1.1698	-----	1.12	9.99	0.997	0.997	4.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Avg	1.3244	1.2727	1.1774	1.3256	1.4128	1.3710	1.3095	1.4152	1.3150	1.32	10.36	0.998	0.998	5.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.3863	1.4766	1.2665	1.3986	1.4782	1.4269	1.3745	1.4746	-----	1.41	11.10	0.999	0.999	5.1	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.2051	1.2096	1.1279	1.2388	1.2995	1.2530	1.1791	1.2069	-----	1.22	11.36	0.998	0.999	4.2	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.5039	0.2926	0.3840	0.4830	0.4947	0.4432	0.3931	0.4030	-----	0.425	11.26	0.988	0.996	17		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6386	0.6503	0.5926	0.6656	0.6800	0.6419	0.6190	0.6485	-----	0.642	11.54	0.998	0.998	4.2		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.39

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8270D

Form 6
Initial Calibration

Instrument: GCMS_5

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	5M102997.D	CAL BNA@50PPM	02/23/18 12:30	2	5M102990.D	CAL BNA@2PPM	02/23/18 09:46
3	5M102989.D	CAL BNA@10PPM	02/23/18 09:19	4	5M102995.D	CAL BNA@20PPM	02/23/18 11:43
5	5M102994.D	CAL BNA@80PPM	02/23/18 11:19	6	5M102993.D	CAL BNA@120PPM	02/23/18 10:56
7	5M102992.D	CAL BNA@160PPM	02/23/18 10:33	8	5M102991.D	CAL BNA@196PPM	02/23/18 10:09
9	5M102996.D	CAL BNA@.5PPM	02/23/18 12:06				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2127	0.2187	0.2235	0.2263	0.2379	0.2262	0.2182	0.2244	-----	0.224	11.47	0.999	0.999	3.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.3568	0.3464	0.3720	0.3692	0.3834	0.3735	0.3463	0.3695	-----	0.365	11.88	0.999	0.999	3.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Avg	0.5263	0.4955	0.4609	0.5309	0.5762	0.5489	0.5157	0.5397	-----	0.524	12.13	0.998	0.998	6.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.3126	0.2831	0.3214	0.3225	0.3460	0.3340	0.3203	0.3433	-----	0.323	12.23	0.998	0.998	6.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Qua	0.3330	0.2792	0.2446	0.3130	0.3474	0.3072	0.2631	0.2651	-----	0.294	12.76	0.981	0.995	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.1787	1.3332	1.0877	1.2089	1.2645	1.2214	1.1377	1.1865	-----	1.20	12.78	0.998	0.998	6.3	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Avg	1.0774	1.2182	1.0474	1.1216	1.1683	1.1076	1.0822	1.1248	-----	1.12	12.83	0.999	0.999	4.9	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Avg	0.7220	0.6360	0.6313	0.7202	0.7785	0.7623	0.7286	0.7614	-----	0.718	12.82	0.999	0.999	7.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Avg	1.3342	1.1351	1.1437	1.3048	1.4487	1.4157	1.3120	1.3995	-----	1.31	13.57	0.998	0.998	9.0	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.2106	1.3026	1.2042	1.3027	1.3179	1.2435	1.1648	1.2965	-----	1.26	14.00	0.998	0.998	4.6	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.2300	1.3062	1.1105	1.1948	1.2692	1.2436	1.1235	1.1601	-----	1.20	14.03	0.996	0.998	5.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.2061	1.2402	1.0759	1.2051	1.2645	1.2131	1.1163	1.2187	-----	1.19	14.36	0.998	0.998	5.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.3315	1.3912	1.2142	1.3570	1.4275	1.3530	1.2407	1.3542	-----	1.33	15.75	0.998	0.998	5.4	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.1077	1.1555	1.0375	1.1341	1.1934	1.1338	1.0410	1.1356	-----	1.12	15.77	0.996	0.996	4.8	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	1.1229	1.1670	1.0402	1.1381	1.2186	1.1592	1.0540	1.1231	1.3317	1.15	16.13	0.996	0.997	7.6	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 7.39

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Sample ID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 5M_0225.M
Data File: 5M102997.D Sam Mult : 1 Vial# : 10 Qt On : 02/23/18 12:48
Acq On : 02/23/18 12:30 Misc : A,BNA Qt Upd On: 02/23/18 10:10

Data Path : G:\GcMsData\2018\GCMS_5\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_5\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.665	96	38748	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.844	152	83962	40.00	ng	-0.01
31) Naphthalene-d8	6.848	136	306402	40.00	ng	-0.01
50) Acenaphthene-d10	8.274	164	186462	40.00	ng	-0.02
77) Phenanthrene-d10	9.738	188	337820	40.00	ng	-0.02
91) Chrysene-d12	12.799	240	389690	40.00	ng	-0.02
103) Perylene-d12	14.423	264	360013	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.652	112	128230	56.32	ng	-0.01
Spiked Amount 100.000			Recovery = 56.32%			
16) Phenol-d5	5.523	99	163705	56.55	ng	-0.01
Spiked Amount 100.000			Recovery = 56.55%			
32) Nitrobenzene-d5	6.293	128	30730	25.48	ng	-0.01
Spiked Amount 50.000			Recovery = 50.96%			
55) 2-Fluorobiphenyl	7.681	172	156821	25.04	ng	-0.02
Spiked Amount 50.000			Recovery = 50.08%			
80) 2,4,6-Tribromophenol	9.017	330	45888	52.61	ng	-0.02
Spiked Amount 100.000			Recovery = 52.61%			
94) Terphenyl-d14	11.544	244	155539	25.46	ng	-0.02
Spiked Amount 50.000			Recovery = 50.92%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.692	88	51039	49.8668	ng	87
9) Pyridine	3.173	79	165631	54.3508	ng	81
10) N-Nitrosodimethylamine	3.103	74	93229	54.9048	ng	89
12) Benzaldehyde	5.470	77	90648	52.9688	ng	84
13) Aniline	5.566	93	223287m	65.4127	ng	
14) Pentachloroethane	5.603	117	45195	53.5620	ng	71
15) bis(2-Chloroethyl)ether	5.619	93	152074	52.4654	ng	85
17) Phenol	5.534	94	208425	53.2788	ng	92
18) 2-Chlorophenol	5.662	128	152787	51.4260	ng	83
19) N-Decane	5.700	57	157878	60.0671	ng	90
20) 1,3-Dichlorobenzene	5.790	146	167421	51.6762	ng	97
22) 1,4-Dichlorobenzene	5.854	146	170724	48.2048	ng	97
23) 1,2-Dichlorobenzene	5.977	146	161836	48.1510	ng	98
24) Benzyl alcohol	5.956	108	94347	47.0327	ng	80
25) bis(2-chloroisopropyl)...	6.063	45	240012	62.6769	ng	100
26) 2-Methylphenol	6.041	108	143913	48.5460	ng	96
27) Acetophenone	6.170	105	183937	53.3423	ng	79
28) Hexachloroethane	6.255	117	64704	52.6713	ng	90
29) N-Nitroso-di-n-propyla...	6.170	70	112483	56.2166	ng	79
30) 3&4-Methylphenol	6.164	108	146567	50.4762	ng	99
33) Nitrobenzene	6.303	77	167037	58.6371	ng	89
34) Isophorone	6.490	82	300475	56.3119	ng	89
35) 2-Nitrophenol	6.554	139	79133	51.8989	ng	92
36) 2,4-Dimethylphenol	6.576	107	160478	51.5946	ng	97
37) Benzoic Acid	6.650	105	98073	69.4965	ng	92
38) bis(2-Chloroethoxy)met...	6.650	93	176339	51.5980	ng	97
39) 2,4-Dichlorophenol	6.736	162	128668	48.1011	ng	84
40) 1,2,4-Trichlorobenzene	6.800	180	140616	48.5030	ng	98
41) Naphthalene	6.864	128	459557	46.2156	ng	99
42) 4-Chloroaniline	6.896	127	163868	58.3683	ng	88
43) Hexachlorobutadiene	6.950	225	86973	51.5935	ng	97
44) Caprolactam	7.174	113	41560	46.7807	ng	67
45) 4-Chloro-3-methylphenol	7.259	107	130550	52.5266	ng	87
46) 2-Methylnaphthalene	7.398	142	304457	50.1472	ng	99
47) 1-Methylnaphthalene	7.478	142	293368	49.0942	ng	93
48) Methylnaphthalenes (To...	7.398	142	594698m	99.2860	ng	
49) 1,1'-Biphenyl	7.772	154	334148	49.3957	ng	94
51) 1,2,4,5-Tetrachloroben...	7.527	216	134620	50.4038	ng	99
52) Hexachlorocyclopentadiene	7.516	237	91900	53.5742	ng	99
53) 2,4,6-Trichlorophenol	7.617	196	93275	50.5294	ng	99
54) 2,4,5-Trichlorophenol	7.649	196	102495	51.6609	ng	99
56) 2-Chloronaphthalene	7.794	162	283565	48.7212	ng	94
57) 1,4-Dimethylnaphthalene	8.077	156	206654	50.4701	ng	88
58) Dimethylnaphthalenes (...	8.077	156	206654	50.4701	ng	88
59) Diphenyl Ether	7.852	170	189145	50.4246	ng	83
60) 2-Nitroaniline	7.874	65	107231	58.8721	ng	67
61) Coumarin	8.061	146	101204	50.7051	ng	60
62) Acenaphthylene	8.157	152	441789	50.4336	ng	99
63) Dimethylphthalate	8.018	163	332581	52.2558	ng	98
64) 2,6-Dinitrotoluene	8.077	165	72562	53.7706	ng	64
65) Acenaphthene	8.307	153	290086	50.3946	ng	95

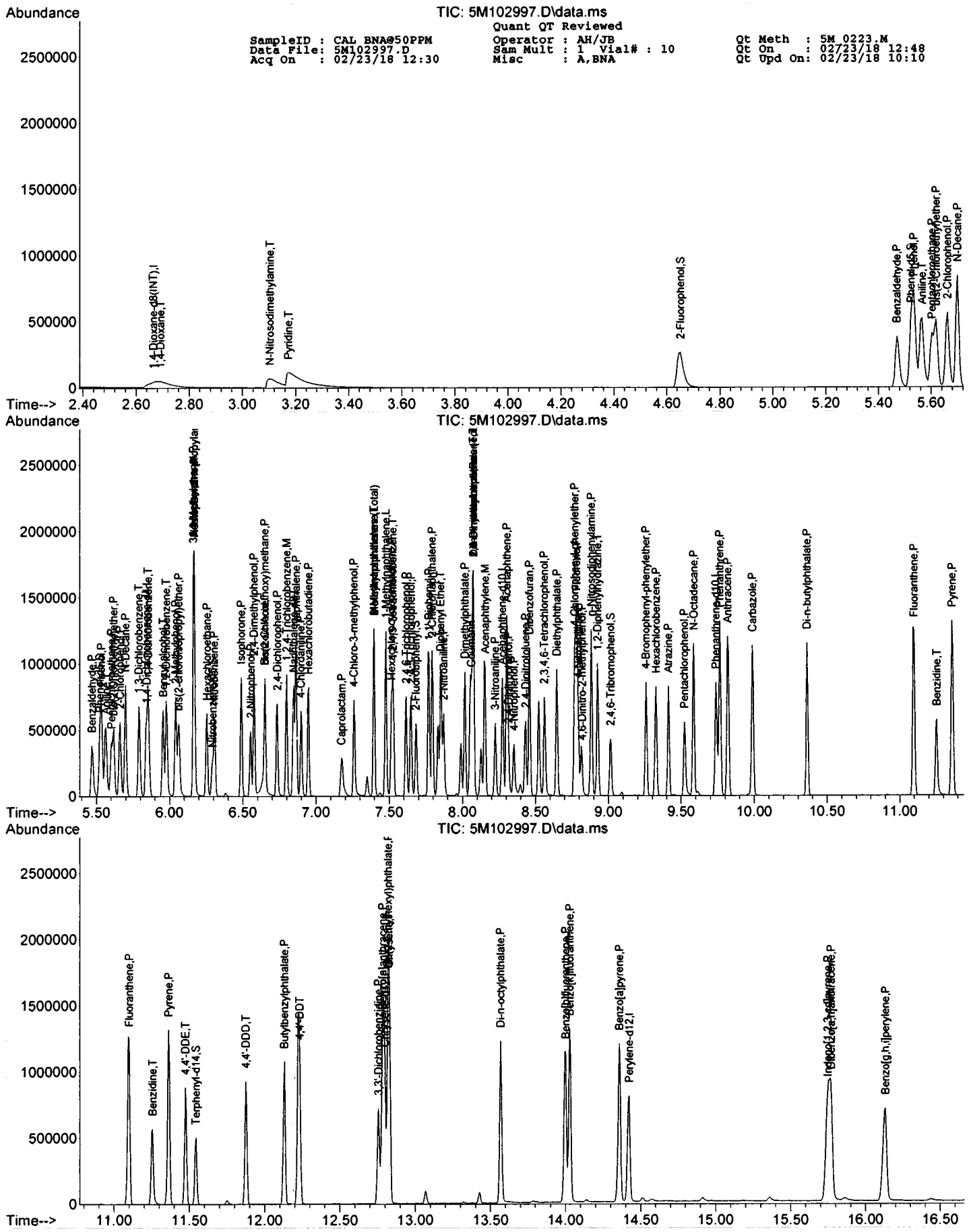
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 5M_0223.M
Data File: 5M102997.D Sam Mult : 1 Vial# : 10 Qt On : 02/23/18 12:48
Acq On : 02/23/18 12:30 Misc : A,BNA Qt Upd On: 02/23/18 10:10

Data Path : G:\GcMsData\2018\GCMS_5\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_5\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.226	138	75863	47.9171	ng	85
67)	2,4-Dinitrophenol	8.317	184	41699	68.4869	ng	44
68)	Dibenzofuran	8.461	168	422873	49.3091	ng	87
69)	2,4-Dinitrotoluene	8.435	165	96862	47.8002	ng	65
70)	4-Nitrophenol	8.355	65	69442	60.4825	ng	84
71)	2,3,4,6-Tetrachlorophenol	8.563	232	91520	52.5930	ng	84
72)	Fluorene	8.782	166	344528	51.8527	ng	99
73)	4-Chlorophenyl-phenyle...	8.771	204	170184	51.3373	ng	84
74)	Diethylphthalate	8.648	149	330915	53.4927	ng	97
75)	4-Nitroaniline	8.793	138	90187	48.3579	ng	86
76)	Atrazine	9.412	200	92689	50.7601	ng	94
78)	4,6-Dinitro-2-methylph...	8.819	198	51938	50.5343	ng	69
79)	n-Nitrosodiphenylamine	8.883	169	291396	49.7169	ng	99
81)	1,2-Diphenylhydrazine	8.926	77	346019	55.4798	ng	87
82)	4-Bromophenyl-phenylether	9.257	248	99686	50.6990	ng	87
83)	Hexachlorobenzene	9.327	284	108920	52.7806	ng	63
84)	N-Octadecane	9.589	57	199082	61.7077	ng	87
85)	Pentachlorophenol	9.525	266	68309	48.4229	ng	98
86)	Phenanthrene	9.765	178	494580	49.4188	ng	99
87)	Anthracene	9.818	178	504298	49.8124	ng	99
88)	Carbazole	9.989	167	472052	50.5181	ng	97
89)	Di-n-butylphthalate	10.363	149	559300	49.1614	ng	98
90)	Fluoranthene	11.101	202	585433	53.5155	ng	86
92)	Pyrene	11.362	202	587040	49.6549	ng	85
93)	Benzidine	11.255	184	245465	88.2637	ng	83
95)	4,4'-DDE	11.474	246	103623	51.5641	ng	96
96)	4,4'-DDD	11.875	235	173818	52.5782	ng	95
97)	Butylbenzylphthalate	12.132	149	256410	49.6970	ng	75
98)	4,4'-DDT	12.233	235	152277	54.2804	ng	97
99)	3,3'-Dichlorobenzidine	12.757	252	162223	64.1721	ng	96
100)	Benzo[a]anthracene	12.783	228	574162	50.6016	ng	100
101)	Chrysene	12.826	228	524829	48.2324	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.821	149	351701	49.5980	ng	93
104)	Di-n-octylphthalate	13.569	149	600432	52.7632	ng	99
105)	Benzo[b]fluoranthene	14.001	252	544830m	50.9122	ng	
106)	Benzo[k]fluoranthene	14.028	252	553521m	51.7573	ng	
107)	Benzo[a]pyrene	14.359	252	542793	53.3580	ng	90
108)	Indeno[1,2,3-cd]pyrene	15.748	276	599211	51.8723	ng	77
109)	Dibenzo[a,h]anthracene	15.770	278	498490	50.7081	ng	86
110)	Benzo[g,h,i]perylene	16.133	276	505347	51.8915	ng	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M102997.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 5M102997.D
Acq On : 02/23/18 12:30
Operator : AH/JB
Sam Mult : 1 Vial# : 10
Misc : A,BNA
Qt Meth : 5M_0223.M
Qt On : 02/23/18 12:48
Qt Upd On: 02/23/18 10:10
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
2-Chlorophenol,P
N-Decane,P
Time-->

Abundance
TIC: 5M102997.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthylene,M
3-Nitroaniline,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->

Abundance
TIC: 5M102997.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

SampleID : CAL BNA@2PPM Operator : AH/JB Qt Meth : 5M_0229.M
Data File: 5M102990.D Sam Mult : 1 Vial# : 3 Qt On : 02/23/18 10:11
Acq On : 02/23/18 09:46 Misc : A,BNA Qt Upd On: 02/23/18 10:10

Data Path : G:\GcMsData\2018\GCMS_5\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_5\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.644	96	39347	40.00	ng	-0.03
21) 1,4-Dichlorobenzene-d4	5.839	152	85631	40.00	ng	-0.02
31) Naphthalene-d8	6.843	136	321439	40.00	ng	-0.02
50) Acenaphthene-d10	8.275	164	195828	40.00	ng	-0.02
77) Phenanthrene-d10	9.738	188	356259	40.00	ng	-0.02
91) Chrysene-d12	12.794	240	428055	40.00	ng	-0.03
103) Perylene-d12	14.418	264	394669	40.00	ng	-0.03
System Monitoring Compounds						
11) 2-Fluorophenol	4.647	112	5253m	2.27	ng	-0.02
Spiked Amount 100.000			Recovery = 2.27%			
16) Phenol-d5	5.523	99	7038	2.39	ng	-0.01
Spiked Amount 100.000			Recovery = 2.39%			
32) Nitrobenzene-d5	6.293	128	1269	1.00	ng	-0.01
Spiked Amount 50.000			Recovery = 2.00%			
55) 2-Fluorobiphenyl	7.682	172	7381	1.12	ng	-0.02
Spiked Amount 50.000			Recovery = 2.24%			
80) 2,4,6-Tribromophenol	9.017	330	1728	1.86	ng	-0.02
Spiked Amount 100.000			Recovery = 1.86%			
94) Terphenyl-d14	11.544	244	6960	1.04	ng	-0.02
Spiked Amount 50.000			Recovery = 2.08%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.703	88	1819m	1.7502	ng	
9) Pyridine	3.306	79	7567m	2.4453	ng	
10) N-Nitrosodimethylamine	3.162	74	3762	2.1818	ng	90
12) Benzaldehyde	5.470	77	4494	2.5860	ng	90
13) Aniline	5.566	93	6524m	1.8821	ng	
14) Pentachloroethane	5.604	117	1907	2.2256	ng	59
15) bis(2-Chloroethyl)ether	5.614	93	7008	2.3809	ng	87
17) Phenol	5.529	94	9019	2.2704	ng	91
18) 2-Chlorophenol	5.657	128	7251	2.4034	ng	77
19) N-Decane	5.700	57	7245	2.7145	ng	85
20) 1,3-Dichlorobenzene	5.790	146	7841	2.3834	ng	98
22) 1,4-Dichlorobenzene	5.855	146	8390	2.3228	ng	99
23) 1,2-Dichlorobenzene	5.977	146	7657	2.2338	ng	99
24) Benzyl alcohol	5.956	108	3306m	1.6159	ng	
25) bis(2-chloroisopropyl)...	6.063	45	11488	2.9415	ng	98
26) 2-Methylphenol	6.042	108	7510	2.4840	ng	90
27) Acetophenone	6.170	105	8911	2.5338	ng	68
28) Hexachloroethane	6.250	117	3177	2.5358	ng	88
29) N-Nitroso-di-n-propyla...	6.164	70	5197	2.5467	ng	82
30) 3&4-Methylphenol	6.164	108	6715	2.2675	ng	96
33) Nitrobenzene	6.303	77	7394	2.4742	ng	81
34) Isophorone	6.485	82	13434	2.3999	ng	85
35) 2-Nitrophenol	6.549	139	3292	2.0580	ng	89
36) 2,4-Dimethylphenol	6.576	107	7161	2.1946	ng	98
37) Benzoic Acid	0.000		0	N.D.	d	
38) bis(2-Chloroethoxy)met...	6.651	93	8068	2.2503	ng	94
39) 2,4-Dichlorophenol	6.731	162	5468	1.9485	ng	87
40) 1,2,4-Trichlorobenzene	6.800	180	6821	2.2427	ng	96
41) Naphthalene	6.859	128	22030	2.1118	ng	98
42) 4-Chloroaniline	6.902	127	5825	1.9778	ng	87
43) Hexachlorobutadiene	6.950	225	4225	2.3891	ng	98
44) Caprolactam	7.153	113	1350	1.4613	ng	64
45) 4-Chloro-3-methylphenol	7.260	107	5627	2.1581	ng	78
46) 2-Methylnaphthalene	7.393	142	14579	2.2890	ng	99
47) 1-Methylnaphthalene	7.473	142	13841	2.2079	ng	88
48) Methylnaphthalenes (To...	7.393	142	28470m	4.5308	ng	
49) 1,1'-Biphenyl	7.767	154	15781	2.2237	ng	95
51) 1,2,4,5-Tetrachloroben...	7.527	216	6169	2.1993	ng	98
52) Hexachlorocyclopentadiene	7.516	237	2976	1.6519	ng	98
53) 2,4,6-Trichlorophenol	7.618	196	4328	2.2324	ng	97
54) 2,4,5-Trichlorophenol	7.644	196	4460	2.1405	ng	94
56) 2-Chloronaphthalene	7.794	162	13766	2.2521	ng	90
57) 1,4-Dimethylnaphthalene	8.072	156	9823	2.2843	ng	91
58) Dimethylnaphthalenes (...	8.072	156	9823	2.2843	ng	91
59) Diphenyl Ether	7.853	170	9280	2.3557	ng	78
60) 2-Nitroaniline	7.869	65	4345	2.2377	ng	76
61) Coumarin	8.056	146	4492	2.1429	ng	63
62) Acenaphthylene	8.152	152	20349	2.2119	ng	98
63) Dimethylphthalate	8.008	163	15651	2.3415	ng	98
64) 2,6-Dinitrotoluene	8.072	165	2939	2.0737	ng	74
65) Acenaphthene	8.301	153	14120	2.3356	ng	95

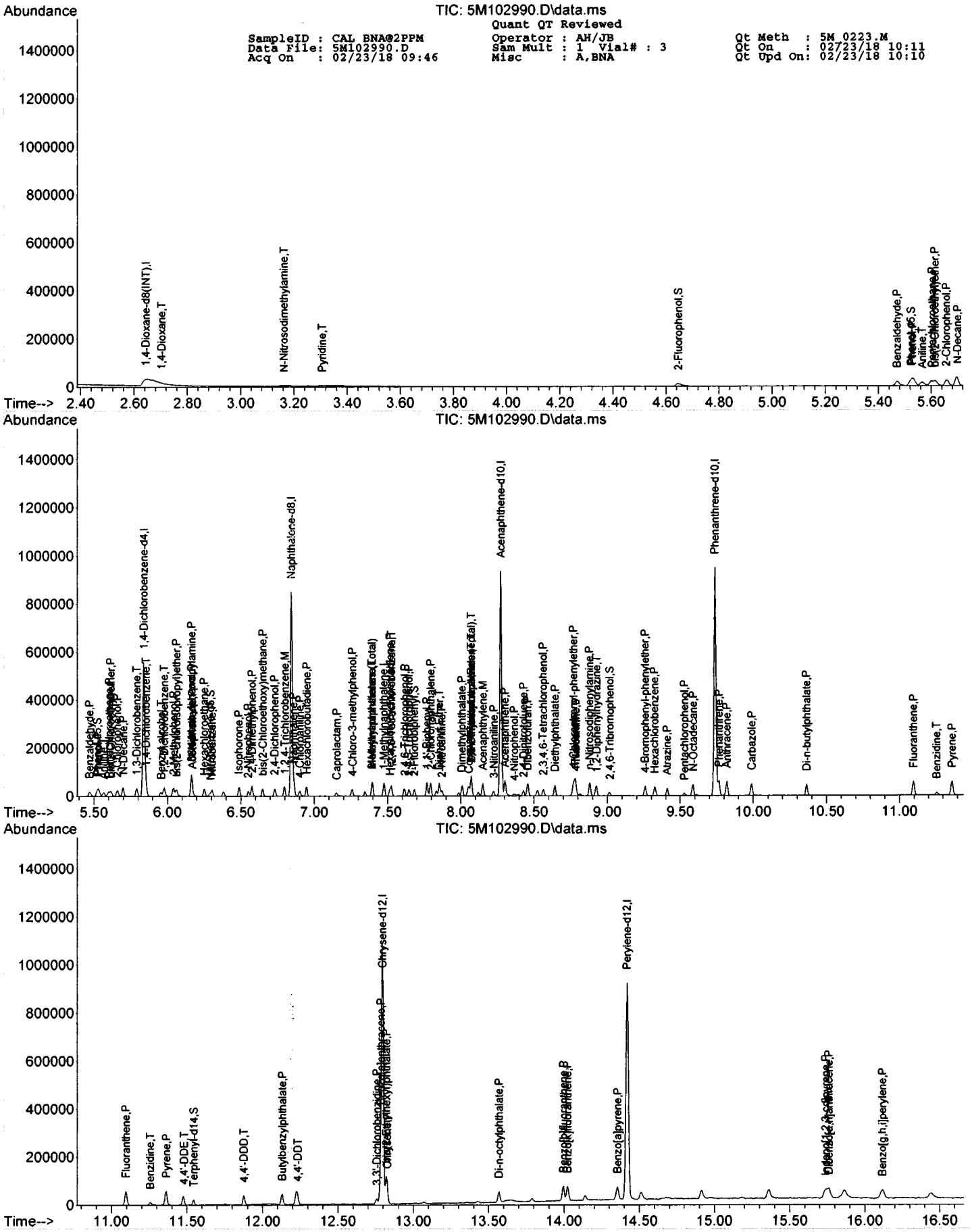
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@2PPM Operator : AH/JB Qt Meth : 5M_0223.M
Data File: 5M102990.D Sam Mult : 1 Vial# : 3 Qt On : 02/23/18 10:11
Acq On : 02/23/18 09:46 Misc : A,BNA Qt Upd On: 02/23/18 10:10

Data Path : G:\GcMsData\2018\GCMS_5\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_5\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.227	138	2944	1.6861	ng	72
67)	2,4-Dinitrophenol	0.000		0	N.D. d		
68)	Dibenzofuran	8.456	168	19747	2.1560	ng	90
69)	2,4-Dinitrotoluene	8.430	165	3511	1.6427	ng	65
70)	4-Nitrophenol	8.365	65	2251	1.8442	ng	92
71)	2,3,4,6-Tetrachlorophenol	8.563	232	3580	1.9589	ng	81
72)	Fluorene	8.782	166	15658	2.2439	ng	97
73)	4-Chlorophenyl-phenyle...	8.771	204	7690	2.2088	ng	84
74)	Diethylphthalate	8.643	149	15221	2.3428	ng	96
75)	4-Nitroaniline	8.787	138	3235	1.6494	ng	79
76)	Atrazine	9.407	200	3687	1.9035	ng	95
78)	4,6-Dinitro-2-methylph...	0.000		0	N.D. d		
79)	n-Nitrosodiphenylamine	8.878	169	13673	2.2121	ng	96
81)	1,2-Diphenylhydrazine	8.926	77	16374	2.4895	ng	88
82)	4-Bromophenyl-phenylether	9.258	248	4624	2.2300	ng	85
83)	Hexachlorobenzene	9.322	284	5002	2.2984	ng	69
84)	N-Octadecane	9.589	57	8334	2.4495	ng	86
85)	Pentachlorophenol	9.530	266	1614	1.0943	ng	91
86)	Phenanthrene	9.765	178	24614	2.3322	ng	99
87)	Anthracene	9.819	178	23190	2.1721	ng	97
88)	Carbazole	9.989	167	20603	2.0908	ng	94
89)	Di-n-butylphthalate	10.363	149	22672	1.8592	ng	97
90)	Fluoranthene	11.095	202	26303	2.2800	ng	82
92)	Pyrene	11.362	202	25890	1.9936	ng	82
93)	Benzidine	11.256	184	6263	2.0502	ng	79
95)	4,4'-DDE	11.480	246	4681	2.1206	ng	97
96)	4,4'-DDD	11.875	235	7414	2.0417	ng	95
97)	Butylbenzylphthalate	12.132	149	10606	1.8791	ng	72
98)	4,4'-DDT	12.233	235	6060	1.9665	ng	97
99)	3,3'-Dichlorobenzidine	12.757	252	5976	2.1521	ng	95
100)	Benzo[a]anthracene	12.783	228	28536	2.2895	ng	97
101)	Chrysene	12.826	228	26073	2.1814	ng	94
102)	bis(2-Ethylhexyl)phtha...	12.821	149	13613	1.7494	ng	90
104)	Di-n-octylphthalate	13.569	149	22400	1.8379	ng	99
105)	Benzo[b]fluoranthene	13.996	252	25705m	2.1911	ng	
106)	Benzo[k]fluoranthene	14.023	252	25777m	2.1986	ng	
107)	Benzo[a]pyrene	14.354	252	24475	2.1947	ng	90
108)	Indeno[1,2,3-cd]pyrene	15.738	276	27454	2.1679	ng	75
109)	Dibenzo[a,h]anthracene	15.759	278	22803	2.1159	ng	85
110)	Benzo[g,h,i]perylene	16.117	276	23029	2.1571	ng	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M102990.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@2PPM
Data File: 5M102990.D
Acq On : 02/23/18 09:46
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : A,BNA
Qt Meth : 5M_0223.M
Qt On : 02/23/18 10:11
Qt Upd On: 02/23/18 10:10
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->
Abundance
TIC: 5M102990.D\data.ms
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthylene,M
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
Abundance
TIC: 5M102990.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Chrysene-d12,I
Di-n-octylphthalate,P
Perylene-d12,I
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

8022605 0185

Sample ID : CAL BNA@10PPM Operator : AH/JB Qt Meth : 5M_0220...
Data File: 5M102989.D Sam Mult : 1 Vial# : 2 Qt On : 02/23/18 10:11
Acq On : 02/23/18 09:19 Misc : A,BNA Qt Upd On: 02/23/18 10:10

Data Path : G:\GcMsData\2018\GCMS_5\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_5\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.649	96	40093	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.838	152	86370	40.00	ng	-0.02
31) Naphthalene-d8	6.843	136	319077	40.00	ng	-0.02
50) Acenaphthene-d10	8.274	164	196105	40.00	ng	-0.02
77) Phenanthrene-d10	9.738	188	342095	40.00	ng	-0.02
91) Chrysene-d12	12.794	240	404067	40.00	ng	-0.03
103) Perylene-d12	14.423	264	374040	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.647	112	23294	9.89	ng	-0.02
Spiked Amount 100.000			Recovery = 9.89%			
16) Phenol-d5	5.518	99	29560	9.87	ng	-0.02
Spiked Amount 100.000			Recovery = 9.87%			
32) Nitrobenzene-d5	6.287	128	5640	4.49	ng	-0.02
Spiked Amount 50.000			Recovery = 8.98%			
55) 2-Fluorobiphenyl	7.681	172	30158	4.58	ng	-0.02
Spiked Amount 50.000			Recovery = 9.16%			
80) 2,4,6-Tribromophenol	9.012	330	8020	9.01	ng	-0.02
Spiked Amount 100.000			Recovery = 9.01%			
94) Terphenyl-d14	11.544	244	29935	4.73	ng	-0.02
Spiked Amount 50.000			Recovery = 9.46%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.687	88	10744	10.1451	ng	99
9) Pyridine	3.226	79	31290m	9.9232	ng	
10) N-Nitrosodimethylamine	3.125	74	16386m	9.3264	ng	
12) Benzaldehyde	5.470	77	19848	11.2088	ng	76
13) Aniline	5.566	93	32598	9.2293	ng	46
14) Pentachloroethane	5.598	117	8350	9.5639	ng	69
15) bis(2-Chloroethyl)ether	5.614	93	29711	9.9064	ng	83
17) Phenol	5.534	94	38923	9.6159	ng	88
18) 2-Chlorophenol	5.657	128	28263	9.1938	ng	84
19) N-Decane	5.700	57	29733	10.9329	ng	89
20) 1,3-Dichlorobenzene	5.790	146	31612	9.4300	ng	95
22) 1,4-Dichlorobenzene	5.854	146	32248	8.8515	ng	98
23) 1,2-Dichlorobenzene	5.977	146	31138	9.0062	ng	98
24) Benzyl alcohol	5.951	108	14884	7.2129	ng	84
25) bis(2-chloroisopropyl)...	6.063	45	45946	11.6638	ng	99
26) 2-Methylphenol	6.041	108	28277	9.2727	ng	95
27) Acetophenone	6.164	105	35698	10.0639	ng	87
28) Hexachloroethane	6.250	117	11950	9.4565	ng	87
29) N-Nitroso-di-n-propyla...	6.164	70	22257	10.8134	ng	81
30) 3&4-Methylphenol	6.164	108	28963	9.6965	ng	99
33) Nitrobenzene	6.303	77	30784	10.3772	ng	85
34) Isophorone	6.485	82	55805	10.0429	ng	92
35) 2-Nitrophenol	6.549	139	14122	8.8939	ng	92
36) 2,4-Dimethylphenol	6.576	107	29770	9.1910	ng	98
37) Benzoic Acid	6.613	105	9184	8.6990	ng	83
38) bis(2-Chloroethoxy)met...	6.650	93	33005	9.2739	ng	95
39) 2,4-Dichlorophenol	6.731	162	24019	8.6225	ng	86
40) 1,2,4-Trichlorobenzene	6.800	180	26861	8.8972	ng	97
41) Naphthalene	6.859	128	88105	8.5084	ng	99
42) 4-Chloroaniline	6.902	127	26909	9.2040	ng	92
43) Hexachlorobutadiene	6.950	225	16443	9.3667	ng	96
44) Caprolactam	7.153	113	7548	8.2200	ng	71
45) 4-Chloro-3-methylphenol	7.259	107	25288	9.7704	ng	85
46) 2-Methylnaphthalene	7.398	142	59559	9.4203	ng	98
47) 1-Methylnaphthalene	7.479	142	57042	9.1666	ng	94
48) Methylnaphthalenes (To...	7.398	142	116080m	18.6099	ng	
49) 1,1'-Biphenyl	7.767	154	63471	9.0099	ng	95
51) 1,2,4,5-Tetrachloroben...	7.527	216	25837	9.1981	ng	99
52) Hexachlorocyclopentadiene	7.516	237	14882	8.2490	ng	99
53) 2,4,6-Trichlorophenol	7.617	196	18269	9.4101	ng	95
54) 2,4,5-Trichlorophenol	7.644	196	19199	9.2011	ng	95
56) 2-Chloronaphthalene	7.794	162	55009	8.9867	ng	94
57) 1,4-Dimethylnaphthalene	8.071	156	40554	9.4173	ng	89
58) Dimethylnaphthalenes (...	8.071	156	40554	9.4173	ng	89
59) Diphenyl Ether	7.852	170	35324	8.9540	ng	84
60) 2-Nitroaniline	7.868	65	18498	9.5313	ng	71
61) Coumarin	8.055	146	19297	9.1928	ng	65
62) Acenaphthylene	8.152	152	84419	9.1632	ng	99
63) Dimethylphthalate	8.013	163	62397	9.3219	ng	99
64) 2,6-Dinitrotoluene	8.071	165	12841	9.0476	ng	67
65) Acenaphthene	8.301	153	55029	9.0897	ng	98

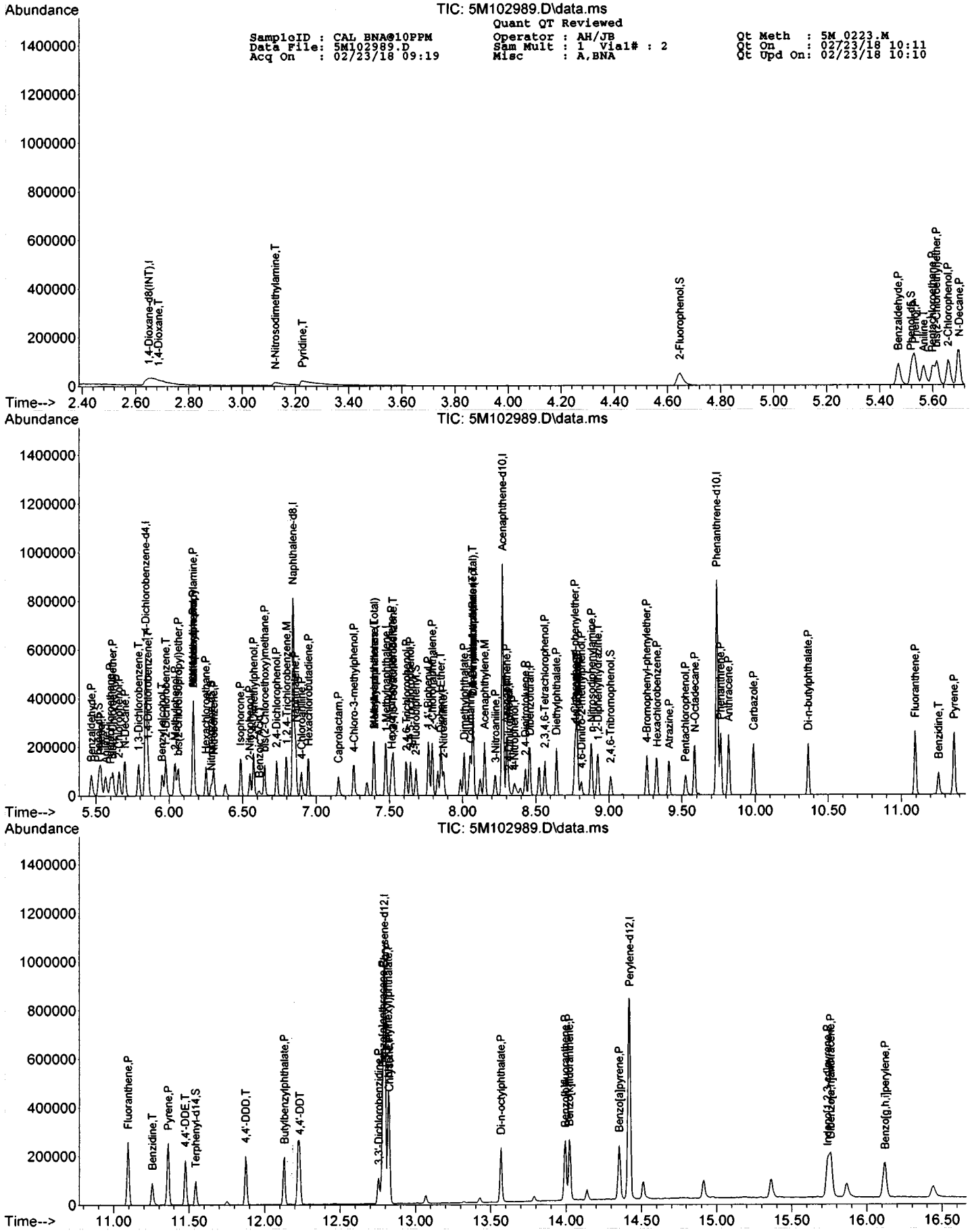
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM Operator : AH/JB Qt Meth : 5M_0223.M
Data File: 5M102989.D Sam Mult : 1 Vial# : 2 Qt On : 02/23/18 10:11
Acq On : 02/23/18 09:19 Misc : A,BNA Qt Upd On: 02/23/18 10:10

Data Path : G:\GcMsData\2018\GCMS_5\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_5\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.226	138	12733	7.3249	ng	79
67)	2,4-Dinitrophenol	8.317	184	6125	13.9706	ng	37
68)	Dibenzofuran	8.461	168	81170	8.8708	ng	86
69)	2,4-Dinitrotoluene	8.429	165	17135	8.0105	ng	68
70)	4-Nitrophenol	8.355	65	11715	9.5998	ng	95
71)	2,3,4,6-Tetrachlorophenol	8.563	232	16569	9.0534	ng	84
72)	Fluorene	8.782	166	65212	9.3320	ng	99
73)	4-Chlorophenyl-phenyle...	8.771	204	32320	9.2702	ng	84
74)	Diethylphthalate	8.643	149	62041	9.5358	ng	97
75)	4-Nitroaniline	8.787	138	15775	8.0333	ng	81
76)	Atrazine	9.412	200	16714	8.6285	ng	94
78)	4,6-Dinitro-2-methylph...	8.814	198	8062	8.1043	ng	68
79)	n-Nitrosodiphenylamine	8.884	169	55618	9.3708	ng	99
81)	1,2-Diphenylhydrazine	8.926	77	69730	11.0406	ng	84
82)	4-Bromophenyl-phenylether	9.257	248	19251	9.6685	ng	84
83)	Hexachlorobenzene	9.327	284	20507	9.8131	ng	62
84)	N-Octadecane	9.589	57	37670	11.5303	ng	87
85)	Pentachlorophenol	9.525	266	10965	7.7328	ng	99
86)	Phenanthrene	9.765	178	96373	9.5093	ng	100
87)	Anthracene	9.818	178	98036	9.5626	ng	99
88)	Carbazole	9.989	167	89882	9.4988	ng	96
89)	Di-n-butylphthalate	10.363	149	100698	8.6194	ng	97
90)	Fluoranthene	11.095	202	108318	9.7778	ng	86
92)	Pyrene	11.362	202	113937	9.2945	ng	83
93)	Benzidine	11.255	184	38797	13.4542	ng	83
95)	4,4'-DDE	11.475	246	22585	10.8387	ng	95
96)	4,4'-DDD	11.875	235	37583	10.9640	ng	95
97)	Butylbenzylphthalate	12.132	149	46566	8.7349	ng	69
98)	4,4'-DDT	12.233	235	32472	11.1631	ng	99
99)	3,3'-Dichlorobenzidine	12.757	252	24710	9.4270	ng	94
100)	Benzo[a]anthracene	12.783	228	109884	9.3396	ng	99
101)	Chrysene	12.826	228	105806	9.3777	ng	96
102)	bis(2-Ethylhexyl)phtha...	12.821	149	63777	8.6814	ng	96
104)	Di-n-octylphthalate	13.569	149	106949	9.2275	ng	100
105)	Benzo[b]fluoranthene	13.996	252	112607m	10.1281	ng	
106)	Benzo[k]fluoranthene	14.023	252	103848m	9.3462	ng	
107)	Benzo[a]pyrene	14.354	252	100614	9.5197	ng	90
108)	Indeno[1,2,3-cd]pyrene	15.738	276	113545	9.4607	ng	71
109)	Dibenzo[a,h]anthracene	15.759	278	97017	9.4988	ng	85
110)	Benzo[g,h,i]perylene	16.122	276	97271	9.6137	ng	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M102989.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@10PPM
Data File: 5M102989.D
Acq On : 02/23/18 09:19
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 5M_0223.M
Qt On : 02/23/18 10:11
Qt Upd On: 02/23/18 10:10
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->
Abundance
TIC: 5M102989.D\data.ms
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthylene,M
3-Nitroaniline,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
Abundance
TIC: 5M102989.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Perylene-d12,I
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->

Sample ID : CAL BNA@20PPM Operator : AH/JB Qt Meth : 5M_0220...
Data File: 5M102995.D Sam Mult : 1 Vial# : 8 Qt On : 02/23/18 11:57
Acq On : 02/23/18 11:43 Misc : A,BNA Qt Upd On: 02/23/18 10:10

Data Path : G:\GcMsData\2018\GCMS_5\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_5\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.655	96	38431	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.838	152	84204	40.00	ng	-0.02
31) Naphthalene-d8	6.848	136	311033	40.00	ng	-0.01
50) Acenaphthene-d10	8.275	164	188005	40.00	ng	-0.02
77) Phenanthrene-d10	9.738	188	336752	40.00	ng	-0.02
91) Chrysene-d12	12.794	240	384833	40.00	ng	-0.03
103) Perylene-d12	14.418	264	355717	40.00	ng	-0.03
System Monitoring Compounds						
11) 2-Fluorophenol	4.647	112	50731	22.46	ng	-0.02
Spiked Amount 100.000			Recovery = 22.46%			
16) Phenol-d5	5.523	99	65722	22.89	ng	-0.01
Spiked Amount 100.000			Recovery = 22.89%			
32) Nitrobenzene-d5	6.287	128	12341	10.08	ng	-0.02
Spiked Amount 50.000			Recovery = 20.16%			
55) 2-Fluorobiphenyl	7.682	172	64319	10.19	ng	-0.02
Spiked Amount 50.000			Recovery = 20.38%			
80) 2,4,6-Tribromophenol	9.012	330	17199	19.66	ng	-0.02
Spiked Amount 100.000			Recovery = 19.66%			
94) Terphenyl-d14	11.544	244	64043	10.62	ng	-0.02
Spiked Amount 50.000			Recovery = 21.24%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.692	88	21938m	21.6110	ng	
9) Pyridine	3.199	79	62204	20.5802	ng	85
10) N-Nitrosodimethylamine	3.114	74	36817	21.8613	ng	87
12) Benzaldehyde	5.470	77	44005	25.9257	ng	86
13) Aniline	5.561	93	85194m	25.1638	ng	
14) Pentachloroethane	5.603	117	18466	22.0652	ng	72
15) bis(2-Chloroethyl)ether	5.619	93	61793	21.4944	ng	84
17) Phenol	5.534	94	82654	21.3028	ng	88
18) 2-Chlorophenol	5.662	128	60584	20.5600	ng	84
19) N-Decane	5.700	57	64316	24.6718	ng	89
20) 1,3-Dichlorobenzene	5.790	146	67596	21.0363	ng	95
22) 1,4-Dichlorobenzene	5.855	146	69913	19.6836	ng	97
23) 1,2-Dichlorobenzene	5.977	146	66353	19.6852	ng	98
24) Benzyl alcohol	5.956	108	36461	18.1239	ng	79
25) bis(2-chloroisopropyl)...	6.063	45	97950	25.5052	ng	99
26) 2-Methylphenol	6.042	108	59272	19.9367	ng	100
27) Acetophenone	6.170	105	78729	22.7660	ng	71
28) Hexachloroethane	6.250	117	26377	21.4101	ng	86
29) N-Nitroso-di-n-propyla...	6.164	70	46519	23.1824	ng	83
30) 3&4-Methylphenol	6.164	108	62501	21.4629	ng	97
33) Nitrobenzene	6.303	77	67083	23.1984	ng	87
34) Isophorone	6.490	82	120845	22.3103	ng	87
35) 2-Nitrophenol	6.554	139	31427	20.3043	ng	88
36) 2,4-Dimethylphenol	6.576	107	63398	20.0793	ng	99
37) Benzoic Acid	6.624	105	30465	26.5476	ng	88
38) bis(2-Chloroethoxy)met...	6.651	93	71514	20.6139	ng	97
39) 2,4-Dichlorophenol	6.731	162	52577	19.3627	ng	88
40) 1,2,4-Trichlorobenzene	6.800	180	59096	20.0806	ng	97
41) Naphthalene	6.864	128	194347	19.2536	ng	99
42) 4-Chloroaniline	6.896	127	66652m	23.3874	ng	
43) Hexachlorobutadiene	6.950	225	34922	20.4077	ng	96
44) Caprolactam	7.163	113	17099	19.0626	ng	68
45) 4-Chloro-3-methylphenol	7.260	107	53829	21.3355	ng	81
46) 2-Methylnaphthalene	7.398	142	126250	20.4851	ng	99
47) 1-Methylnaphthalene	7.479	142	122321	20.1653	ng	92
48) Methylnaphthalenes (To...	7.398	142	246689m	40.5720	ng	
49) 1,1'-Biphenyl	7.767	154	137976	20.0927	ng	95
51) 1,2,4,5-Tetrachloroben...	7.527	216	54637	20.2890	ng	99
52) Hexachlorocyclopentadiene	7.516	237	35407	20.4715	ng	96
53) 2,4,6-Trichlorophenol	7.617	196	39210	21.0667	ng	99
54) 2,4,5-Trichlorophenol	7.644	196	42007	20.9992	ng	98
56) 2-Chloronaphthalene	7.794	162	119498	20.3632	ng	93
57) 1,4-Dimethylnaphthalene	8.072	156	85802	20.7830	ng	90
58) Dimethylnaphthalenes (...	8.072	156	85802	20.7830	ng	90
59) Diphenyl Ether	7.853	170	77723	20.5503	ng	82
60) 2-Nitroaniline	7.869	65	42226	22.7741	ng	69
61) Coumarin	8.056	146	42189	20.9640	ng	64
62) Acenaphthylene	8.152	152	181621	20.5633	ng	99
63) Dimethylphthalate	8.013	163	137591	21.4412	ng	99
64) 2,6-Dinitrotoluene	8.072	165	29654	21.7941	ng	69
65) Acenaphthene	8.301	153	118935	20.4921	ng	98

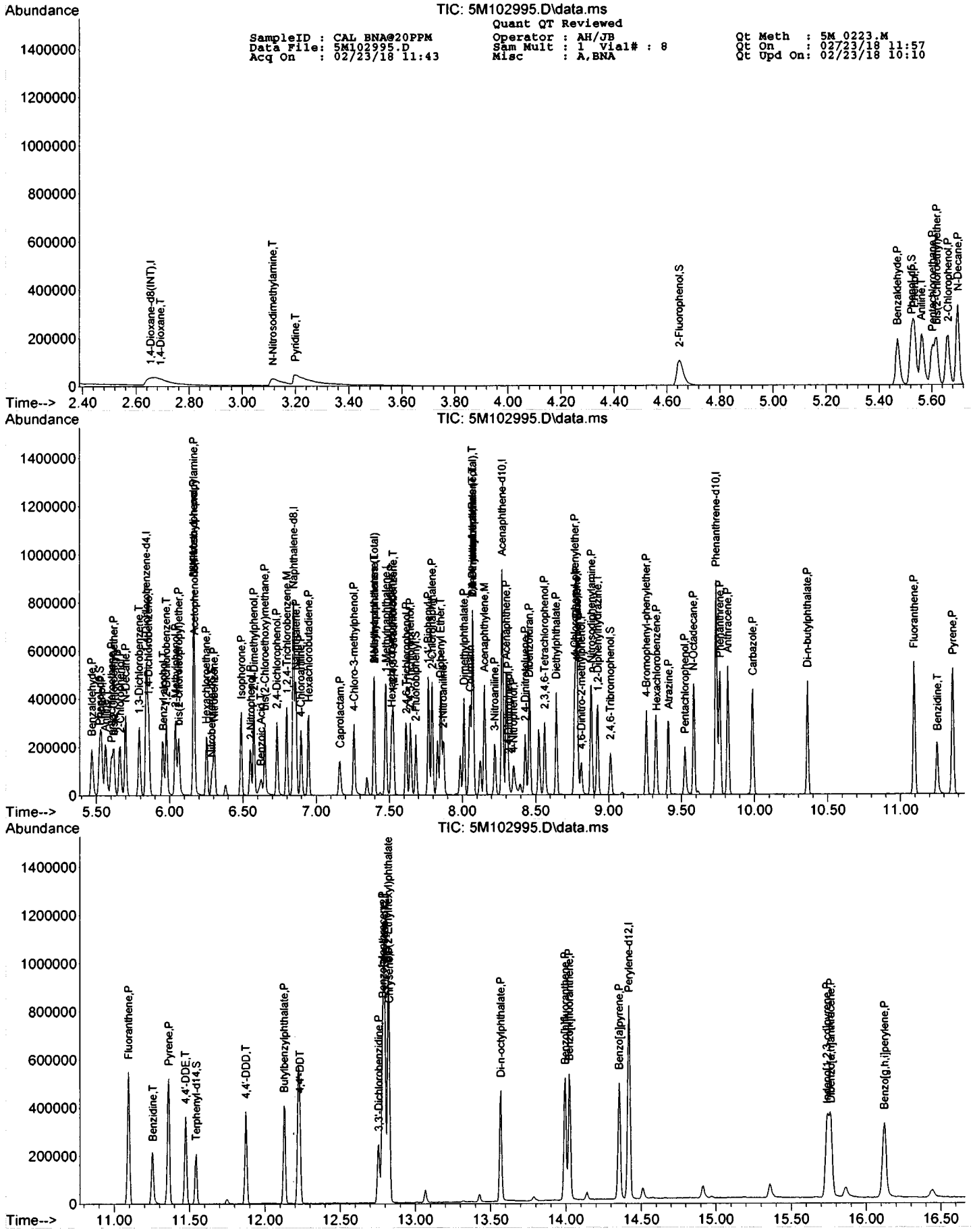
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@20PPM Operator : AH/JB Qt Meth : 5M_0223.M
Data File: 5M102995.D Sam Mult : 1 Vial# : 8 Qt On : 02/23/18 11:57
Acq On : 02/23/18 11:43 Misc : A,BNA Qt Upd On: 02/23/18 10:10

Data Path : G:\GcMsData\2018\GCMS_5\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_5\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.221	138	30645	18.6065	ng	85
67)	2,4-Dinitrophenol	8.317	184	14560	30.4153	ng	38
68)	Dibenzofuran	8.456	168	174787	20.0036	ng	87
69)	2,4-Dinitrotoluene	8.429	165	38603	18.8431	ng	66
70)	4-Nitrophenol	8.349	65	25341	21.7145	ng	81
71)	2,3,4,6-Tetrachlorophenol	8.563	232	37146	21.1712	ng	81
72)	Fluorene	8.782	166	140197	20.9270	ng	98
73)	4-Chlorophenyl-phenyle...	8.771	204	69940	20.9248	ng	81
74)	Diethylphthalate	8.643	149	134902	21.6280	ng	97
75)	4-Nitroaniline	8.787	138	35809	19.0270	ng	85
76)	Atrazine	9.412	200	36222	19.5485	ng	94
78)	4,6-Dinitro-2-methylph...	8.814	198	19133	19.3029	ng	60
79)	n-Nitrosodiphenylamine	8.884	169	120881	20.6897	ng	98
81)	1,2-Diphenylhydrazine	8.926	77	152580	24.5419	ng	81
82)	4-Bromophenyl-phenylether	9.258	248	42145	21.5024	ng	81
83)	Hexachlorobenzene	9.327	284	44147	21.4606	ng	59
84)	N-Octadecane	9.583	57	81526	25.3501	ng	90
85)	Pentachlorophenol	9.525	266	24987	17.8680	ng	97
86)	Phenanthrene	9.765	178	198923	19.9396	ng	99
87)	Anthracene	9.818	178	204999	20.3131	ng	99
88)	Carbazole	9.989	167	189868	20.3838	ng	98
89)	Di-n-butylphthalate	10.363	149	223213	19.4818	ng	97
90)	Fluoranthene	11.095	202	235503	21.5960	ng	87
92)	Pyrene	11.362	202	238378	20.4177	ng	83
93)	Benzidine	11.256	184	92939	33.8406	ng	83
95)	4,4'-DDE	11.475	246	43548	21.9435	ng	96
96)	4,4'-DDD	11.875	235	71049	21.7629	ng	94
97)	Butylbenzylphthalate	12.126	149	102165	20.1024	ng	76
98)	4,4'-DDT	12.233	235	62063	22.4021	ng	98
99)	3,3'-Dichlorobenzidine	12.757	252	60240	24.1305	ng	96
100)	Benzo[a]anthracene	12.783	228	232629	20.7606	ng	99
101)	Chrysene	12.826	228	215828	20.0852	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.821	149	138586	19.8028	ng	95
104)	Di-n-octylphthalate	13.569	149	232070	20.9410	ng	99
105)	Benzo[b]fluoranthene	13.996	252	231706	21.9135	ng	92
106)	Benzo[k]fluoranthene	14.023	252	212517	20.1115	ng	91
107)	Benzo[a]pyrene	14.354	252	214342	21.3249	ng	90
108)	Indeno[1,2,3-cd]pyrene	15.738	276	241357	21.1461	ng	75
109)	Dibenzo[a,h]anthracene	15.764	278	201717	20.7671	ng	85
110)	Benzo[g,h,i]perylene	16.122	276	202430	21.0375	ng	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M102995.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@20PPM
Data File: 5M102995.D
Acq On : 02/23/18 11:43
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA
Qt Meth : 5M_0223.M
Qt On : 02/23/18 11:57
Qt Upd On: 02/23/18 10:10
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d5,S
Aniline,T
2-Chlorophenol,P
N-Decane,P
Time-->

SampleID : CAL BNA@80PPM Operator : AH/JB Qt Meth : 5M_0229.M
Data File: 5M102994.D Sam Mult : 1 Vial# : 7 Qt On : 02/23/18 11:44
Acq On : 02/23/18 11:19 Misc : A,BNA Qt Upd On: 02/23/18 10:10

Data Path : G:\GcMsData\2018\GCMS_5\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_5\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.654	96	37090	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.844	152	80336	40.00	ng	-0.01
31) Naphthalene-d8	6.848	136	298295	40.00	ng	-0.01
50) Acenaphthene-d10	8.274	164	181974	40.00	ng	-0.02
77) Phenanthrene-d10	9.738	188	321122	40.00	ng	-0.02
91) Chrysene-d12	12.799	240	367776	40.00	ng	-0.02
103) Perylene-d12	14.423	264	341256	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.652	112	207348	95.14	ng	-0.01
Spiked Amount 100.000			Recovery = 95.14%			
16) Phenol-d5	5.529	99	264455	95.43	ng	0.00
Spiked Amount 100.000			Recovery = 95.43%			
32) Nitrobenzene-d5	6.293	128	52216	44.46	ng	-0.01
Spiked Amount 50.000			Recovery = 88.92%			
55) 2-Fluorobiphenyl	7.687	172	263390	43.10	ng	-0.01
Spiked Amount 50.000			Recovery = 86.20%			
80) 2,4,6-Tribromophenol	9.017	330	73206	88.91	ng	-0.02
Spiked Amount 100.000			Recovery = 88.91%			
94) Terphenyl-d14	11.544	244	250122	43.38	ng	-0.02
Spiked Amount 50.000			Recovery = 86.76%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.692	88	83060m	84.7801	ng	
9) Pyridine	3.167	79	271982	93.2389	ng	78
10) N-Nitrosodimethylamine	3.098	74	150126	92.3650	ng	85
12) Benzaldehyde	5.470	77	131140	80.0552	ng	83
13) Aniline	5.566	93	368361m	112.7366	ng	
14) Pentachloroethane	5.603	117	74211	91.8814	ng	71
15) bis(2-Chloroethyl)ether	5.619	93	253020	91.1938	ng	85
17) Phenol	5.539	94	343683	91.7815	ng	89
18) 2-Chlorophenol	5.662	128	253941	89.2939	ng	84
19) N-Decane	5.700	57	260317	103.4689	ng	91
20) 1,3-Dichlorobenzene	5.790	146	276232	89.0732	ng	98
22) 1,4-Dichlorobenzene	5.854	146	277775	81.9712	ng	97
23) 1,2-Dichlorobenzene	5.977	146	265823	82.6600	ng	98
24) Benzyl alcohol	5.956	108	158085	82.3636	ng	80
25) bis(2-chloroisopropyl)...	6.063	45	394442	107.6540	ng	100
26) 2-Methylphenol	6.041	108	233875	82.4537	ng	100
27) Acetophenone	6.170	105	307072	93.0712	ng	85
28) Hexachloroethane	6.255	117	105894	90.0921	ng	91
29) N-Nitroso-di-n-propyla...	6.170	70	187037	97.6962	ng	79
30) 3&4-Methylphenol	6.170	108	245158	88.2408	ng	98
33) Nitrobenzene	6.309	77	273999	98.7994	ng	82
34) Isophorone	6.490	82	497033	95.6803	ng	92
35) 2-Nitrophenol	6.554	139	131951	88.8912	ng	93
36) 2,4-Dimethylphenol	6.576	107	265648	87.7286	ng	99
37) Benzoic Acid	6.666	105	181050	110.6745	ng	91
38) bis(2-Chloroethoxy)met...	6.650	93	284055	85.3753	ng	97
39) 2,4-Dichlorophenol	6.736	162	213901	82.1378	ng	87
40) 1,2,4-Trichlorobenzene	6.800	180	237343	84.0923	ng	97
41) Naphthalene	6.864	128	769151	79.4522	ng	99
42) 4-Chloroaniline	6.902	127	242539m	88.7381	ng	
43) Hexachlorobutadiene	6.950	225	142068	86.5670	ng	96
44) Caprolactam	7.190	113	71122	81.6806	ng	70
45) 4-Chloro-3-methylphenol	7.265	107	218430	90.2734	ng	83
46) 2-Methylnaphthalene	7.398	142	499454	84.5010	ng	99
47) 1-Methylnaphthalene	7.478	142	489145	84.0816	ng	92
48) Methylnaphthalenes (To...	7.398	142	982987m	168.5718	ng	
49) 1,1'-Biphenyl	7.772	154	548028	83.2145	ng	94
51) 1,2,4,5-Tetrachloroben...	7.527	216	217686	83.5152	ng	98
52) Hexachlorocyclopentadiene	7.516	237	160114	95.6424	ng	100
53) 2,4,6-Trichlorophenol	7.617	196	158058	87.7357	ng	99
54) 2,4,5-Trichlorophenol	7.649	196	164316	84.8633	ng	97
56) 2-Chloronaphthalene	7.799	162	458151	80.6593	ng	92
57) 1,4-Dimethylnaphthalene	8.077	156	338150	84.6215	ng	92
58) Dimethylnaphthalenes (...	8.077	156	338150	84.6215	ng	92
59) Diphenyl Ether	7.858	170	310354	84.7786	ng	77
60) 2-Nitroaniline	7.874	65	178540	101.5939	ng	70
61) Coumarin	8.066	146	165542	84.9853	ng	59
62) Acenaphthylene	8.157	152	716000	83.7527	ng	99
63) Dimethylphthalate	8.018	163	547086	88.0793	ng	99
64) 2,6-Dinitrotoluene	8.077	165	120312	91.3535	ng	75
65) Acenaphthene	8.307	153	470166	83.6930	ng	96

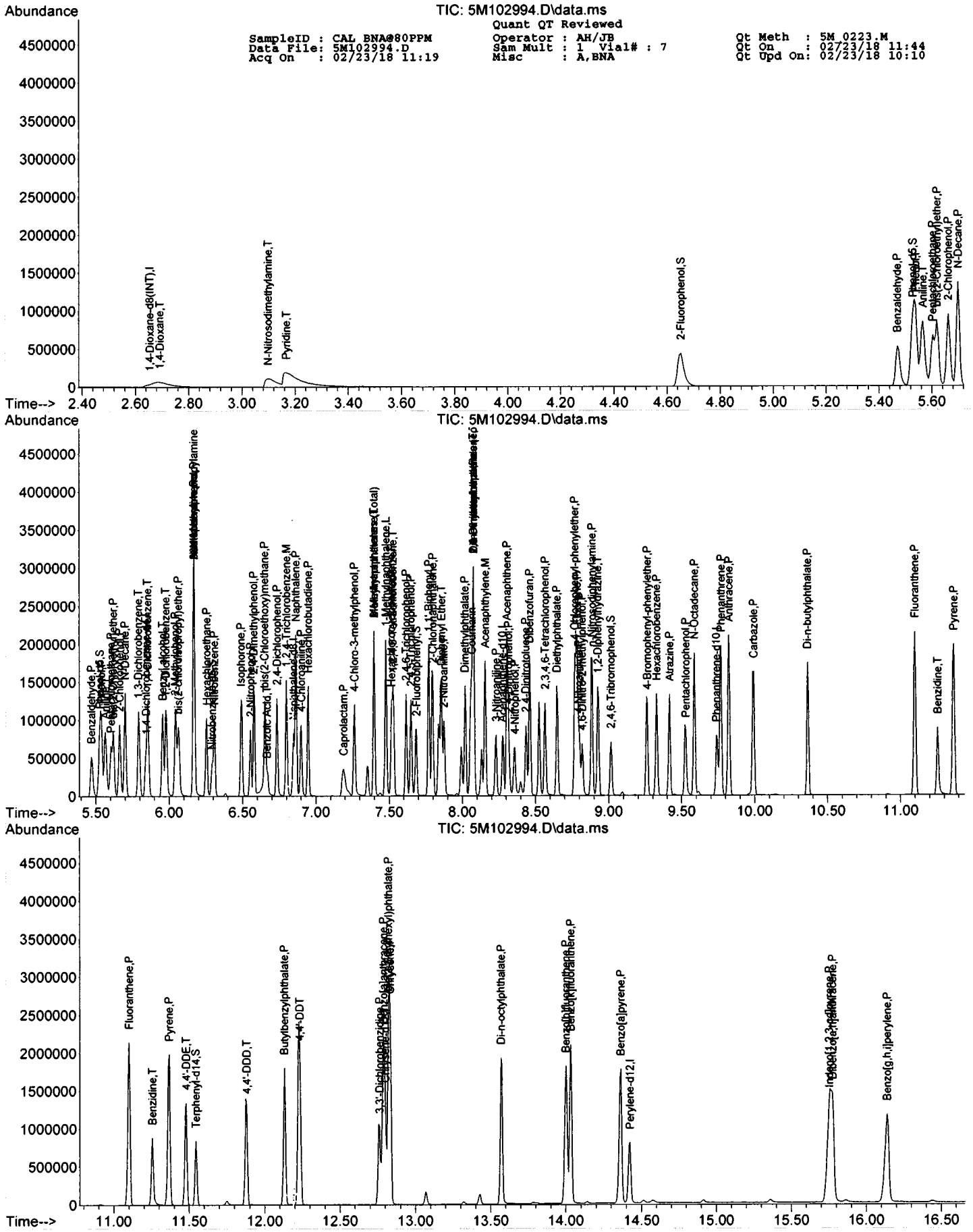
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@80PPM Operator : AH/JB Qt Meth : 5M_0223.M
Data File: 5M102994.D Sam Mult : 1 Vial# : 7 Qt On : 02/23/18 11:44
Acq On : 02/23/18 11:19 Misc : A,BNA Qt Upd On: 02/23/18 10:10

Data Path : G:\GcMsData\2018\GCMS_5\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_5\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.232	138	122652	82.4678	ng	80
67)	2,4-Dinitrophenol	8.317	184	75981	105.3808	ng	51
68)	Dibenzofuran	8.461	168	688663	83.2968	ng	88
69)	2,4-Dinitrotoluene	8.435	165	163732	83.0646	ng	70
70)	4-Nitrophenol	8.360	65	118184	106.4977	ng	82
71)	2,3,4,6-Tetrachlorophenol	8.568	232	153250	90.2388	ng	83
72)	Fluorene	8.787	166	553979	85.4321	ng	99
73)	4-Chlorophenyl-phenyle...	8.771	204	281085	86.8826	ng	85
74)	Diethylphthalate	8.648	149	538316	89.1654	ng	97
75)	4-Nitroaniline	8.798	138	150217	82.6135	ng	87
76)	Atrazine	9.418	200	153582	86.8249	ng	95
78)	4,6-Dinitro-2-methylph...	8.819	198	94114	92.3144	ng	53
79)	n-Nitrosodiphenylamine	8.889	169	483486	86.7800	ng	98
81)	1,2-Diphenylhydrazine	8.926	77	548538	92.5245	ng	88
82)	4-Bromophenyl-phenylether	9.263	248	161695	86.5121	ng	82
83)	Hexachlorobenzene	9.327	284	170222	86.7756	ng	68
84)	N-Octadecane	9.589	57	322779	105.2515	ng	85
85)	Pentachlorophenol	9.530	266	116215	86.0782	ng	96
86)	Phenanthrene	9.770	178	810118	85.1568	ng	100
87)	Anthracene	9.824	178	842393	87.5347	ng	99
88)	Carbazole	9.995	167	757542	85.2863	ng	97
89)	Di-n-butylphthalate	10.363	149	907394	84.9598	ng	98
90)	Fluoranthene	11.101	202	949362	91.2955	ng	87
92)	Pyrene	11.368	202	955867	85.6697	ng	82
93)	Benzidine	11.255	184	363896	138.6455	ng	85
95)	4,4'-DDE	11.480	246	175042	92.2931	ng	94
96)	4,4'-DDD	11.881	235	282080	90.4106	ng	94
97)	Butylbenzylphthalate	12.132	149	423870	86.7727	ng	75
98)	4,4'-DDT	12.233	235	254518	96.1309	ng	97
99)	3,3'-Dichlorobenzidine	12.762	252	255576	107.1248	ng	95
100)	Benzo[a]anthracene	12.789	228	930173	86.8620	ng	99
101)	Chrysene	12.831	228	859394	83.6852	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.821	149	572638	85.5031	ng	95
104)	Di-n-octylphthalate	13.569	149	988799	90.1426	ng	99
105)	Benzo[b]fluoranthene	14.001	252	899546	88.6792	ng	92
106)	Benzo[k]fluoranthene	14.033	252	866276	85.4538	ng	91
107)	Benzo[a]pyrene	14.365	252	863051	89.5035	ng	89
108)	Indeno[1,2,3-cd]pyrene	15.754	276	974295	88.9784	ng	76
109)	Dibenzo[a,h]anthracene	15.775	278	814561	87.4142	ng	85
110)	Benzo[g,h,i]perylene	16.138	276	831723	90.0996	ng	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M102994.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@80PPM
Data File: 5M102994.D
Acq On : 02/23/18 11:19
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA
Qt Meth : 5M_0223.M
Qt On : 02/23/18 11:44
Qt Upd On: 02/23/18 10:10
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
2-Chlorophenol,P
N-Decane,P
Time-->

SampleID : CAL BNA@120PPM Operator : AH/JB Qt Meth : 5M_0229.M
Data File: 5M102993.D Sam Mult : 1 Vial# : 6 Qt On : 02/23/18 11:44
Acq On : 02/23/18 10:56 Misc : A,BNA Qt Upd On: 02/23/18 10:10

Data Path : G:\GcMsData\2018\GCMS_5\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_5\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.649	96	37679	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.844	152	81855	40.00	ng	-0.01
31) Naphthalene-d8	6.848	136	305816	40.00	ng	-0.01
50) Acenaphthene-d10	8.280	164	180346	40.00	ng	-0.02
77) Phenanthrene-d10	9.744	188	319724	40.00	ng	-0.02
91) Chrysene-d12	12.805	240	366106	40.00	ng	-0.02
103) Perylene-d12	14.423	264	339587	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.653	112	304590	137.57	ng	-0.01
Spiked Amount 100.000			Recovery = 137.57%			
16) Phenol-d5	5.529	99	377854	134.22	ng	0.00
Spiked Amount 100.000			Recovery = 134.22%			
32) Nitrobenzene-d5	6.293	128	74797	62.13	ng	-0.01
Spiked Amount 50.000			Recovery = 124.26%			
55) 2-Fluorobiphenyl	7.687	172	371053	61.27	ng	-0.01
Spiked Amount 50.000			Recovery = 122.54%			
80) 2,4,6-Tribromophenol	9.022	330	103109	126.68	ng	-0.01
Spiked Amount 100.000			Recovery = 126.68%			
94) Terphenyl-d14	11.544	244	352552	61.43	ng	-0.02
Spiked Amount 50.000			Recovery = 122.86%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.687	88	115412	115.9605	ng	84
9) Pyridine	3.162	79	387617	130.8028	ng	79
10) N-Nitrosodimethylamine	3.098	74	219957	133.2131	ng	86
12) Benzaldehyde	5.470	77	165369	99.3724	ng	85
13) Aniline	5.566	93	516718m	155.6691	ng	
14) Pentachloroethane	5.603	117	105988	129.1735	ng	71
15) bis(2-Chloroethyl)ether	5.625	93	357421	126.8084	ng	84
17) Phenol	5.545	94	481639	126.6124	ng	89
18) 2-Chlorophenol	5.668	128	359124	124.3057	ng	82
19) N-Decane	5.700	57	365731	143.0957	ng	89
20) 1,3-Dichlorobenzene	5.796	146	390281	123.8819	ng	98
22) 1,4-Dichlorobenzene	5.855	146	399755	115.7783	ng	97
23) 1,2-Dichlorobenzene	5.983	146	380523	116.1311	ng	98
24) Benzyl alcohol	5.956	108	232829	119.0547	ng	82
25) bis(2-chloroisopropyl)...	6.068	45	552727	148.0548	ng	100
26) 2-Methylphenol	6.047	108	336927	116.5808	ng	97
27) Acetophenone	6.175	105	437043	130.0062	ng	77
28) Hexachloroethane	6.255	117	154335	128.8679	ng	91
29) N-Nitroso-di-n-propyla...	6.175	70	257201	131.8524	ng	78
30) 3&4-Methylphenol	6.170	108	341807	120.7450	ng	96
33) Nitrobenzene	6.309	77	391517	137.7024	ng	86
34) Isophorone	6.496	82	710890	133.4828	ng	89
35) 2-Nitrophenol	6.554	139	193486	127.1397	ng	93
36) 2,4-Dimethylphenol	6.581	107	376423	121.2541	ng	99
37) Benzoic Acid	6.683	105	261935	140.1274	ng	90
38) bis(2-Chloroethoxy)met...	6.656	93	409612	120.0849	ng	97
39) 2,4-Dichlorophenol	6.736	162	307137	115.0398	ng	88
40) 1,2,4-Trichlorobenzene	6.800	180	334710	115.6736	ng	97
41) Naphthalene	6.864	128	1083737	109.1954	ng	99
42) 4-Chloroaniline	6.902	127	296831m	105.9312	ng	
43) Hexachlorobutadiene	6.950	225	211729	125.8410	ng	97
44) Caprolactam	7.201	113	109326	121.5378	ng	72
45) 4-Chloro-3-methylphenol	7.265	107	316026	127.3961	ng	87
46) 2-Methylnaphthalene	7.398	142	702948	116.0046	ng	97
47) 1-Methylnaphthalene	7.479	142	690014	115.6930	ng	92
48) Methylnaphthalenes (To...	7.398	142	1384532m	231.5933	ng	
49) 1,1'-Biphenyl	7.772	154	765333	113.3528	ng	94
51) 1,2,4,5-Tetrachloroben...	7.532	216	319629	123.7325	ng	98
52) Hexachlorocyclopentadiene	7.516	237	234591	141.3954	ng	99
53) 2,4,6-Trichlorophenol	7.617	196	229117	128.3276	ng	100
54) 2,4,5-Trichlorophenol	7.655	196	242590	126.4201	ng	99
56) 2-Chloronaphthalene	7.799	162	659197	117.1019	ng	93
57) 1,4-Dimethylnaphthalene	8.077	156	482898	121.9353	ng	92
58) Dimethylnaphthalenes (...	8.077	156	482898	121.9353	ng	92
59) Diphenyl Ether	7.858	170	435650	120.0796	ng	79
60) 2-Nitroaniline	7.879	65	252780	146.9285	ng	60
61) Coumarin	8.072	146	235507	121.9950	ng	58
62) Acenaphthylene	8.157	152	1021259	120.5382	ng	99
63) Dimethylphthalate	8.023	163	775098	125.9151	ng	99
64) 2,6-Dinitrotoluene	8.082	165	176109	134.9276	ng	64
65) Acenaphthene	8.312	153	673088	120.8962	ng	97

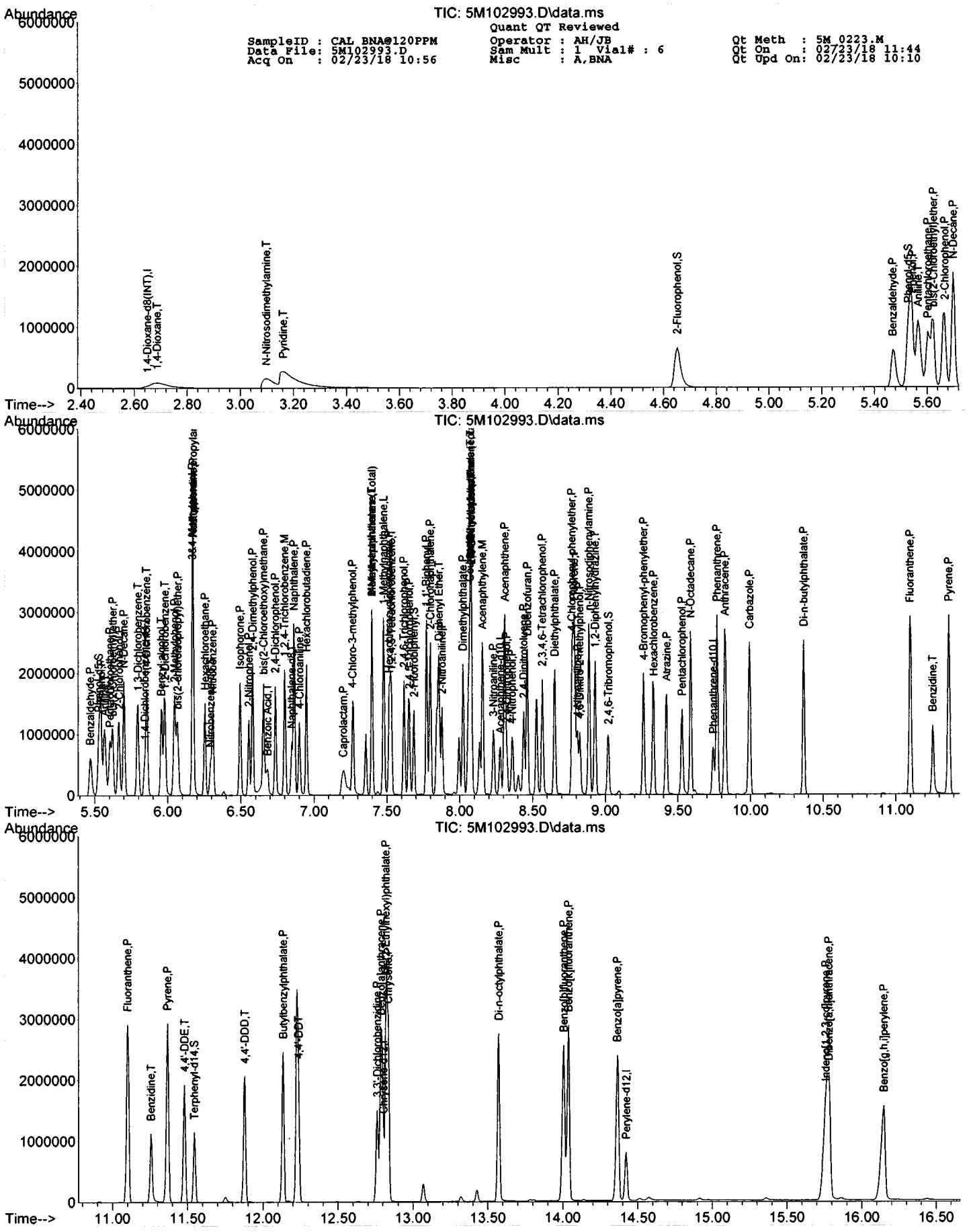
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@120PPM Operator : AH/JB Qt Meth : 5M_0223.M
Data File: 5M102993.D Sam Mult : 1 Vial# : 6 Qt On : 02/23/18 11:44
Acq On : 02/23/18 10:56 Misc : A,BNA Qt Upd On: 02/23/18 10:10

Data Path : G:\GcMsData\2018\GCMS_5\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_5\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.232	138	167803	118.6818	ng	83
67)	2,4-Dinitrophenol	8.323	184	112621	136.9769	ng	42
68)	Dibenzofuran	8.467	168	988482	122.3760	ng	87
69)	2,4-Dinitrotoluene	8.440	165	232174	119.2521	ng	70
70)	4-Nitrophenol	8.360	65	171543	157.6772	ng	85
71)	2,3,4,6-Tetrachlorophenol	8.568	232	218172	129.6268	ng	83
72)	Fluorene	8.787	166	795312	123.7565	ng	99
73)	4-Chlorophenyl-phenyle...	8.771	204	402730	125.6065	ng	86
74)	Diethylphthalate	8.654	149	784767	131.1604	ng	96
75)	4-Nitroaniline	8.809	138	211856	117.6828	ng	86
76)	Atrazine	9.423	200	216080	124.2209	ng	96
78)	4,6-Dinitro-2-methylph...	8.825	198	141193	133.5938	ng	56
79)	n-Nitrosodiphenylamine	8.889	169	682181	122.9788	ng	98
81)	1,2-Diphenylhydrazine	8.932	77	881170	149.2810	ng	83
82)	4-Bromophenyl-phenylether	9.263	248	238804	128.3266	ng	84
83)	Hexachlorobenzene	9.332	284	243972	124.9156	ng	64
84)	N-Octadecane	9.589	57	463579	151.8244	ng	85
85)	Pentachlorophenol	9.530	266	172013	127.0263	ng	100
86)	Phenanthrene	9.770	178	1148356	121.2390	ng	100
87)	Anthracene	9.824	178	1164217	121.5050	ng	99
88)	Carbazole	9.995	167	1075459	121.6078	ng	98
89)	Di-n-butylphthalate	10.369	149	1315036	125.4488	ng	97
90)	Fluoranthene	11.101	202	1368669	132.1937	ng	87
92)	Pyrene	11.368	202	1376294	123.9132	ng	84
93)	Benzidine	11.256	184	486818	186.3252	ng	86
95)	4,4'-DDE	11.480	246	248531	131.6388	ng	95
96)	4,4'-DDD	11.881	235	410266	132.0958	ng	95
97)	Butylbenzylphthalate	12.137	149	602951	123.6068	ng	71
98)	4,4'-DDT	12.239	235	366859	139.1938	ng	98
99)	3,3'-Dichlorobenzidine	12.762	252	337435	142.0812	ng	96
100)	Benzo[a]anthracene	12.789	228	1341576	125.8513	ng	98
101)	Chrysene	12.837	228	1216571	119.0065	ng	98
102)	bis(2-Ethylhexyl)phtha...	12.821	149	837319	125.4898	ng	95
104)	Di-n-octylphthalate	13.574	149	1442296	129.8383	ng	99
105)	Benzo[b]fluoranthene	14.007	252	1266870	125.5046	ng	91
106)	Benzo[k]fluoranthene	14.039	252	1266946	125.5922	ng	91
107)	Benzo[a]pyrene	14.365	252	1235880	128.7979	ng	90
108)	Indeno[1,2,3-cd]pyrene	15.759	276	1378472	126.5089	ng	76
109)	Dibenzo[a,h]anthracene	15.780	278	1155101	124.5684	ng	86
110)	Benzo[g,h,i]perylene	16.149	276	1181002	128.5653	ng	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 5M102993.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@120PPM
Data File: 5M102993.D
Acq On : 02/23/18 10:56
Operator : AH/JB
Sam Mult : 1 Vial# : 6
Misc : A,BNA
Qt Meth : 5M_0223.M
Qt On : 02/23/18 11:44
Qt Upd On: 02/23/18 10:10
Abundance
Time-->
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthene,P
Diethylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Carbazole,P
Di-n-butylphthalate,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Terphenyl-d14,S
4,4'-DDD,T
4,4'-DDE,T
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P

SampleID : CAL BNA@160PPM Operator : AH/JB Qt Meth : 5M_0229.M
Data File: 5M102992.D Sam Mult : 1 Vial# : 5 Qt On : 02/23/18 11:43
Acq On : 02/23/18 10:33 Misc : A,BNA Qt Upd On: 02/23/18 10:10

Data Path : G:\GcMsData\2018\GCMS_5\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_5\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.649	96	39091	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.844	152	85199	40.00	ng	-0.01
31) Naphthalene-d8	6.848	136	310688	40.00	ng	-0.01
50) Acenaphthene-d10	8.280	164	188858	40.00	ng	-0.02
77) Phenanthrene-d10	9.744	188	335747	40.00	ng	-0.02
91) Chrysene-d12	12.805	240	391109	40.00	ng	-0.02
103) Perylene-d12	14.424	264	373082	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.653	112	418144	182.03	ng	-0.01
Spiked Amount 100.000			Recovery = 182.03%			
16) Phenol-d5	5.534	99	506405	173.39	ng	0.00
Spiked Amount 100.000			Recovery = 173.39%			
32) Nitrobenzene-d5	6.298	128	101383	82.89	ng	0.00
Spiked Amount 50.000			Recovery = 165.78%			
55) 2-Fluorobiphenyl	7.687	172	500282	78.88	ng	-0.01
Spiked Amount 50.000			Recovery = 157.76%			
80) 2,4,6-Tribromophenol	9.023	330	140248	165.32	ng	-0.01
Spiked Amount 100.000			Recovery = 165.32%			
94) Terphenyl-d14	11.549	244	484210	78.98	ng	-0.02
Spiked Amount 50.000			Recovery = 157.96%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.692	88	156841	151.8943	ng	80
9) Pyridine	3.157	79	522622	169.9904	ng	80
10) N-Nitrosodimethylamine	3.098	74	294891	172.1445	ng	86
12) Benzaldehyde	5.470	77	204810	118.6275	ng	83
13) Aniline	5.571	93	697589m	202.5681	ng	
14) Pentachloroethane	5.603	117	142080	166.9061	ng	70
15) bis(2-Chloroethyl)ether	5.625	93	480512	164.3217	ng	85
17) Phenol	5.545	94	651216	165.0069	ng	91
18) 2-Chlorophenol	5.668	128	483159	161.1978	ng	84
19) N-Decane	5.700	57	493929	186.2738	ng	90
20) 1,3-Dichlorobenzene	5.796	146	528176	161.5964	ng	97
22) 1,4-Dichlorobenzene	5.855	146	541550	150.6893	ng	97
23) 1,2-Dichlorobenzene	5.983	146	515243	151.0743	ng	97
24) Benzyl alcohol	5.961	108	313620	154.0721	ng	80
25) bis(2-chloroisopropyl)...	6.068	45	744299	191.5446	ng	100
26) 2-Methylphenol	6.047	108	451044	149.9412	ng	99
27) Acetophenone	6.175	105	583050	166.6313	ng	81
28) Hexachloroethane	6.255	117	206608	165.7442	ng	89
29) N-Nitroso-di-n-propyla...	6.175	70	341764	168.3264	ng	73
30) 3&4-Methylphenol	6.175	108	456171	154.8199	ng	98
33) Nitrobenzene	6.314	77	534234	184.9516	ng	82
34) Isophorone	6.501	82	941857	174.0779	ng	88
35) 2-Nitrophenol	6.554	139	258659	167.2997	ng	92
36) 2,4-Dimethylphenol	6.581	107	508496	161.2291	ng	99
37) Benzoic Acid	6.699	105	370584	174.3321	ng	90
38) bis(2-Chloroethoxy)met...	6.656	93	550109	158.7450	ng	96
39) 2,4-Dichlorophenol	6.741	162	406943	150.0325	ng	86
40) 1,2,4-Trichlorobenzene	6.800	180	455137	154.8259	ng	97
41) Naphthalene	6.870	128	1437421	142.5608	ng	99
42) 4-Chloroaniline	6.902	127	323812	113.7478	ng	91
43) Hexachlorobutadiene	6.950	225	285292	166.9041	ng	97
44) Caprolactam	7.217	113	149828	162.6760	ng	69
45) 4-Chloro-3-methylphenol	7.270	107	426262	169.1398	ng	86
46) 2-Methylnaphthalene	7.398	142	967113	157.0959	ng	98
47) 1-Methylnaphthalene	7.479	142	931306	153.7012	ng	93
48) Methylnaphthalenes (To...	7.398	142	1886612m	310.6285	ng	
49) 1,1'-Biphenyl	7.772	154	1058734	154.3492	ng	95
51) 1,2,4,5-Tetrachloroben...	7.532	216	432618	159.9239	ng	99
52) Hexachlorocyclopentadiene	7.516	237	325369	187.2713	ng	99
53) 2,4,6-Trichlorophenol	7.623	196	305669	163.4878	ng	99
54) 2,4,5-Trichlorophenol	7.655	196	327883	163.1673	ng	98
56) 2-Chloronaphthalene	7.799	162	902217	153.0492	ng	93
57) 1,4-Dimethylnaphthalene	8.082	156	657791	158.6110	ng	88
58) Dimethylnaphthalenes (...	8.082	156	657791	158.6110	ng	88
59) Diphenyl Ether	7.858	170	607372	159.8665	ng	80
60) 2-Nitroaniline	7.879	65	343484	193.0781	ng	68
61) Coumarin	8.077	146	314142	155.3944	ng	58
62) Acenaphthylene	8.162	152	1377318	155.2366	ng	99
63) Dimethylphthalate	8.029	163	1049435	162.7975	ng	99
64) 2,6-Dinitrotoluene	8.082	165	238887	174.7764	ng	83
65) Acenaphthene	8.312	153	920424	157.8700	ng	97

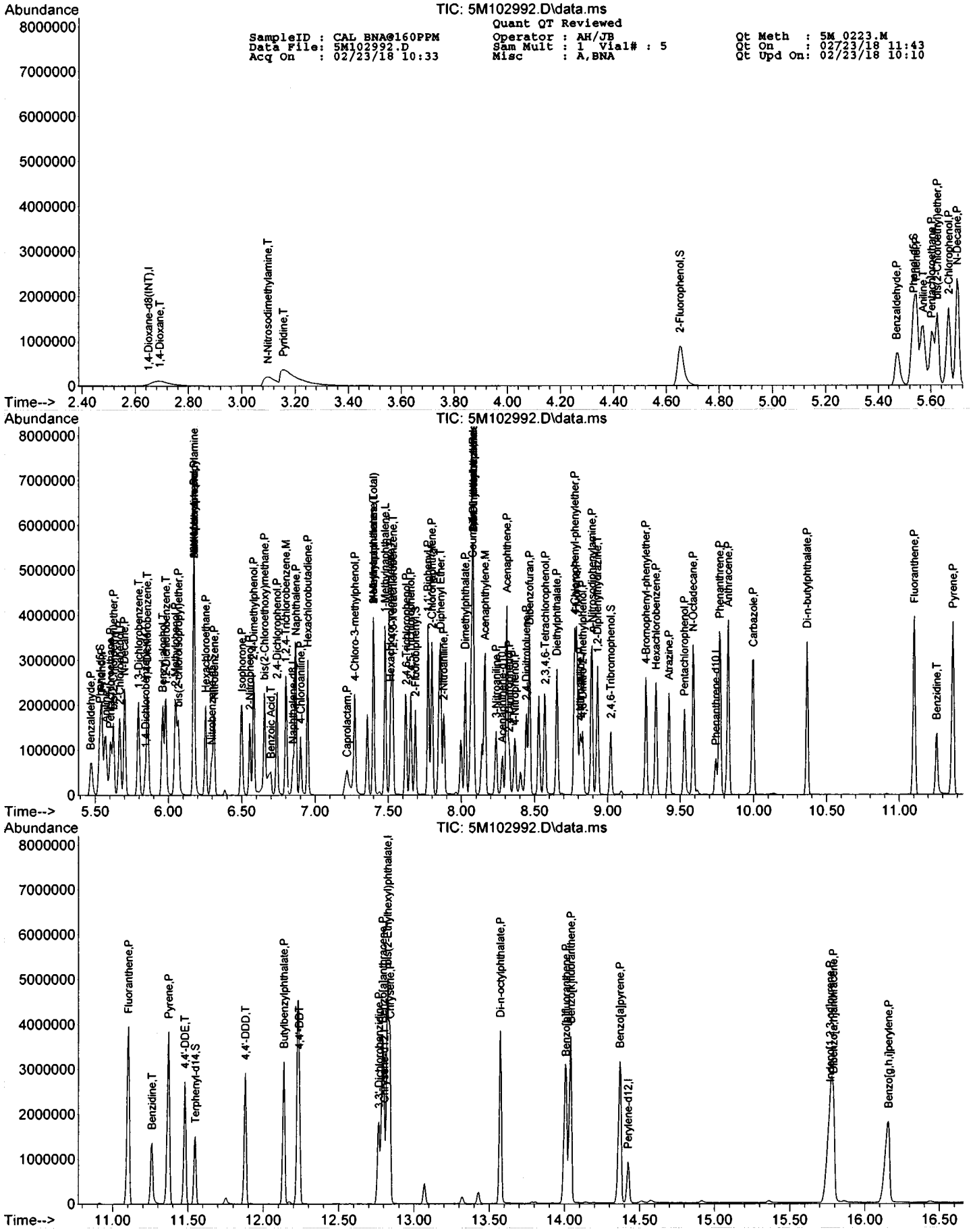
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@160PPM Operator : AH/JB Qt Meth : 5M_0223.M
Data File: 5M102992.D Sam Mult : 1 Vial# : 5 Qt On : 02/23/18 11:43
Acq On : 02/23/18 10:33 Misc : A,BNA Qt Upd On: 02/23/18 10:10

Data Path : G:\GcMsData\2018\GCMS_5\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_5\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.237	138	212387	148.6768	ng	82
67)	2,4-Dinitrophenol	8.328	184	156909	163.9333	ng	38
68)	Dibenzofuran	8.467	168	1323927	158.6347	ng	89
69)	2,4-Dinitrotoluene	8.446	165	316079	155.5594	ng	67
70)	4-Nitrophenol	8.365	65	234026	207.6248	ng	86
71)	2,3,4,6-Tetrachlorophenol	8.574	232	297642	168.8734	ng	84
72)	Fluorene	8.787	166	1073903	159.5756	ng	100
73)	4-Chlorophenyl-phenyle...	8.777	204	538298	160.3216	ng	81
74)	Diethylphthalate	8.654	149	1073072	171.2623	ng	97
75)	4-Nitroaniline	8.814	138	288353	153.1125	ng	86
76)	Atrazine	9.423	200	291030	161.0025	ng	96
78)	4,6-Dinitro-2-methylph...	8.830	198	193300	168.5242	ng	59
79)	n-Nitrosodiphenylamine	8.894	169	916353	157.3100	ng	99
81)	1,2-Diphenylhydrazine	8.932	77	1170395	188.8168	ng	86
82)	4-Bromophenyl-phenylether	9.263	248	318473	162.9712	ng	87
83)	Hexachlorobenzene	9.332	284	325856	158.8786	ng	68
84)	N-Octadecane	9.589	57	612330	190.9705	ng	84
85)	Pentachlorophenol	9.530	266	230257	160.9463	ng	99
86)	Phenanthrene	9.770	178	1561621	157.0018	ng	100
87)	Anthracene	9.829	178	1609796	159.9905	ng	99
88)	Carbazole	10.000	167	1443449	155.4290	ng	98
89)	Di-n-butylphthalate	10.369	149	1758760	161.8703	ng	98
90)	Fluoranthene	11.106	202	1846034	169.7912	ng	86
92)	Pyrene	11.373	202	1844667	155.4653	ng	82
93)	Benzidine	11.261	184	615121	220.3813	ng	84
95)	4,4'-DDE	11.480	246	341490	169.3130	ng	93
96)	4,4'-DDD	11.881	235	541848	163.3090	ng	94
97)	Butylbenzylphthalate	12.137	149	806917	154.4392	ng	74
98)	4,4'-DDT	12.239	235	501183	178.0025	ng	98
99)	3,3'-Dichlorobenzidine	12.767	252	411645	162.2476	ng	95
100)	Benzo[a]anthracene	12.794	228	1779935	156.2988	ng	99
101)	Chrysene	12.842	228	1693166	155.0393	ng	98
102)	bis(2-Ethylhexyl)phtha...	12.826	149	1139977	159.8134	ng	92
104)	Di-n-octylphthalate	13.574	149	1957974	158.4538	ng	100
105)	Benzo[b]fluoranthene	14.012	252	1738361m	156.7524	ng	
106)	Benzo[k]fluoranthene	14.044	252	1676741m	151.2925	ng	
107)	Benzo[a]pyrene	14.370	252	1665975	158.0330	ng	90
108)	Indeno[1,2,3-cd]pyrene	15.770	276	1851586	154.6728	ng	79
109)	Dibenzo[a,h]anthracene	15.791	278	1553526	152.4941	ng	86
110)	Benzo[g,h,i]perylene	16.160	276	1573012	155.8662	ng	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M102992.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@160PPM
Data File: 5M102992.D
Acq On : 02/23/18 10:33
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : A,BNA
Qt Meth : 5M_0223.M
Qt On : 02/23/18 11:43
Qt Upd On: 02/23/18 10:10
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
2-Chlorophenol,P
N-Decane,P
Time-->

Quantitation Report (Qt Reviewed)

8022605 0200

SampleID : CAL BNA@196PPM Operator : AH/JB Qt Meth : 5M_0225.M
Data File: 5M102991.D Sam Mult : 1 Vial# : 4 Qt On : 02/23/18 11:43
Acq On : 02/23/18 10:09 Misc : A,BNA Qt Upd On: 02/23/18 10:10

Data Path : G:\GcMsData\2018\GCMS_5\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_5\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.649	96	35687	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.844	152	76858	40.00	ng	-0.01
31) Naphthalene-d8	6.848	136	281471	40.00	ng	-0.01
50) Acenaphthene-d10	8.280	164	171085	40.00	ng	-0.02
77) Phenanthrene-d10	9.744	188	306113	40.00	ng	-0.02
91) Chrysene-d12	12.805	240	370215	40.00	ng	-0.02
103) Perylene-d12	14.424	264	339425	40.00	ng	-0.02
System Monitoring Compounds						
11) 2-Fluorophenol	4.653	112	486738	232.11	ng	-0.01
Spiked Amount 100.000			Recovery = 232.11%			
16) Phenol-d5	5.534	99	592455	222.20	ng	0.00
Spiked Amount 100.000			Recovery = 222.20%			
32) Nitrobenzene-d5	6.298	128	117800	106.31	ng	0.00
Spiked Amount 50.000			Recovery = 212.62%			
55) 2-Fluorobiphenyl	7.687	172	591932	103.03	ng	-0.01
Spiked Amount 50.000			Recovery = 206.06%			
80) 2,4,6-Tribromophenol	9.028	330	162056	211.40	ng	0.00
Spiked Amount 100.000			Recovery = 211.40%			
94) Terphenyl-d14	11.549	244	576269	99.30	ng	-0.02
Spiked Amount 50.000			Recovery = 198.60%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.687	88	188015	199.4532	ng	85
9) Pyridine	3.157	79	624489	222.4991	ng	82
10) N-Nitrosodimethylamine	3.098	74	345545	220.9546	ng	84
12) Benzaldehyde	5.470	77	241923	153.4893	ng	87
13) Aniline	5.571	93	797696	253.7321	ng	56
14) Pentachloroethane	5.603	117	166487	214.2330	ng	70
15) bis(2-Chloroethyl)ether	5.625	93	572686	214.5230	ng	85
17) Phenol	5.550	94	753799	209.2181	ng	92
18) 2-Chlorophenol	5.668	128	566471	207.0206	ng	86
19) N-Decane	5.705	57	566527	234.0317	ng	89
20) 1,3-Dichlorobenzene	5.796	146	617899	207.0796	ng	98
22) 1,4-Dichlorobenzene	5.860	146	626936	193.3804	ng	98
23) 1,2-Dichlorobenzene	5.983	146	583269	189.5801	ng	97
24) Benzyl alcohol	5.961	108	368031	200.4242	ng	82
25) bis(2-chloroisopropyl)...	6.068	45	860963	245.6136	ng	97
26) 2-Methylphenol	6.047	108	520927	191.9660	ng	97
27) Acetophenone	6.180	105	675338	213.9525	ng	77
28) Hexachloroethane	6.255	117	242790	215.9073	ng	89
29) N-Nitroso-di-n-propyla...	6.180	70	394069	215.1512	ng	74
30) 3&4-Methylphenol	6.175	108	526348	198.0238	ng	94
33) Nitrobenzene	6.314	77	609905	233.0664	ng	84
34) Isophorone	6.501	82	1103725	225.1699	ng	89
35) 2-Nitrophenol	6.560	139	303145	216.4257	ng	90
36) 2,4-Dimethylphenol	6.586	107	586898	205.4043	ng	97
37) Benzoic Acid	6.709	105	427510	203.4890	ng	90
38) bis(2-Chloroethoxy)met...	6.656	93	640418	203.9885	ng	97
39) 2,4-Dichlorophenol	6.741	162	478473	194.7153	ng	87
40) 1,2,4-Trichlorobenzene	6.806	180	532269	199.8589	ng	97
41) Naphthalene	6.870	128	1662871	182.0394	ng	99
42) 4-Chloroaniline	6.902	127	311014	120.5927	ng	90
43) Hexachlorobutadiene	6.950	225	337218	217.7604	ng	95
44) Caprolactam	7.228	113	174456m	207.3263	ng	
45) 4-Chloro-3-methylphenol	7.270	107	498393	218.2890	ng	89
46) 2-Methylnaphthalene	7.404	142	1119761	200.7723	ng	99
47) 1-Methylnaphthalene	7.484	142	1072074	195.2992	ng	92
48) Methylnaphthalenes (To...	7.404	142	2180194m	396.2275	ng	
49) 1,1'-Biphenyl	7.778	154	1241481	199.7783	ng	94
51) 1,2,4,5-Tetrachloroben...	7.532	216	515656	210.4226	ng	98
52) Hexachlorocyclopentadiene	7.521	237	385177	244.7252	ng	98
53) 2,4,6-Trichlorophenol	7.623	196	355845	210.0962	ng	100
54) 2,4,5-Trichlorophenol	7.655	196	366581	201.3760	ng	98
56) 2-Chloronaphthalene	7.799	162	1038480	194.4650	ng	95
57) 1,4-Dimethylnaphthalene	8.082	156	776707	206.7407	ng	90
58) Dimethylnaphthalenes (...	8.082	156	776707	206.7407	ng	90
59) Diphenyl Ether	7.858	170	706419	205.2526	ng	80
60) 2-Nitroaniline	7.885	65	403053	254.4012	ng	61
61) Coumarin	8.077	146	379156	207.0383	ng	60
62) Acenaphthylene	8.162	152	1648548	205.1091	ng	99
63) Dimethylphthalate	8.034	163	1242155	212.7117	ng	99
64) 2,6-Dinitrotoluene	8.088	165	282181	227.8985	ng	70
65) Acenaphthene	8.312	153	1083578	205.1613	ng	96

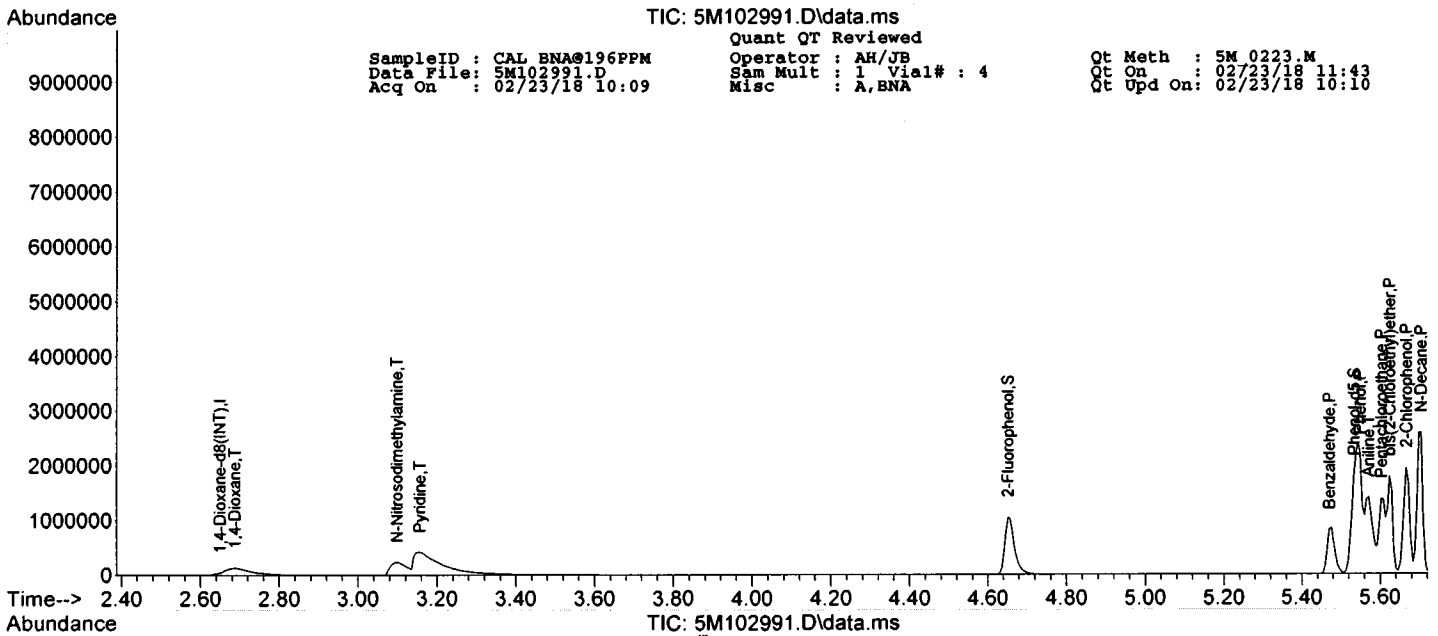
Quantitation Report (QT Reviewed)

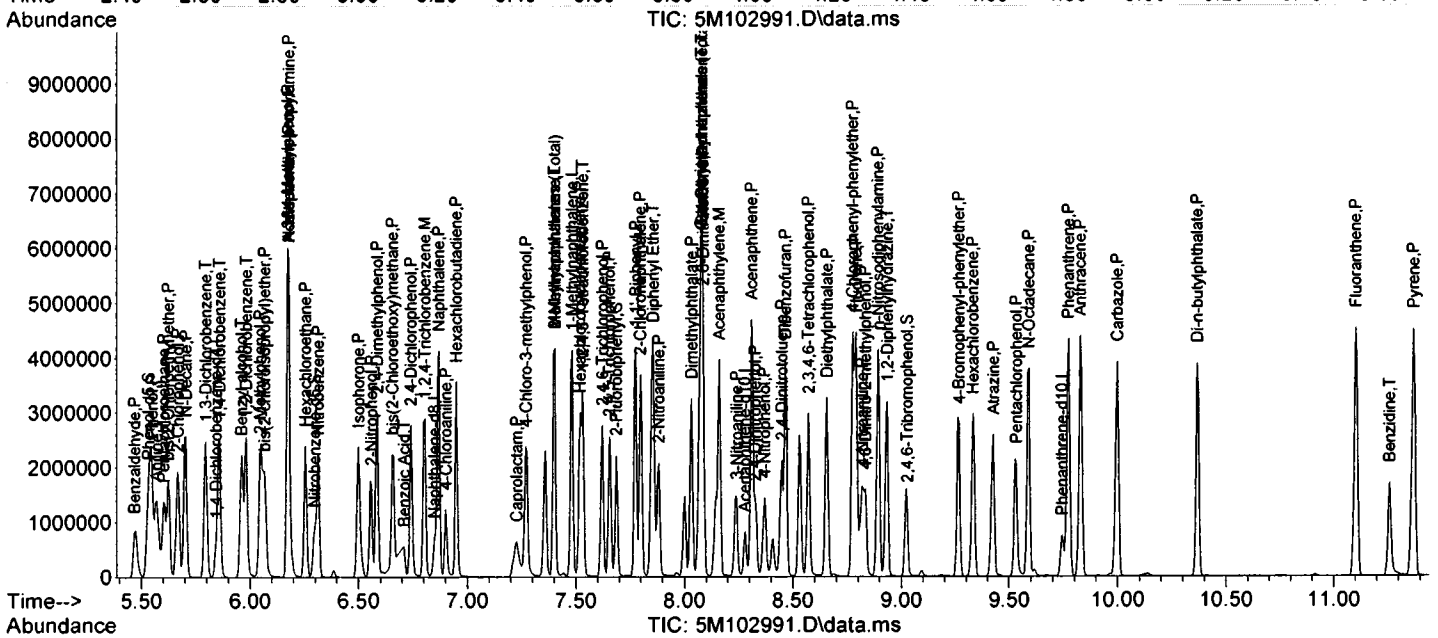
SampleID : CAL BNA@196PPM Operator : AH/JB Qt Meth : 5M_0223.M
Data File: 5M102991.D Sam Mult : 1 Vial# : 4 Qt On : 02/23/18 11:43
Acq On : 02/23/18 10:09 Misc : A,BNA Qt Upd On: 02/23/18 10:10

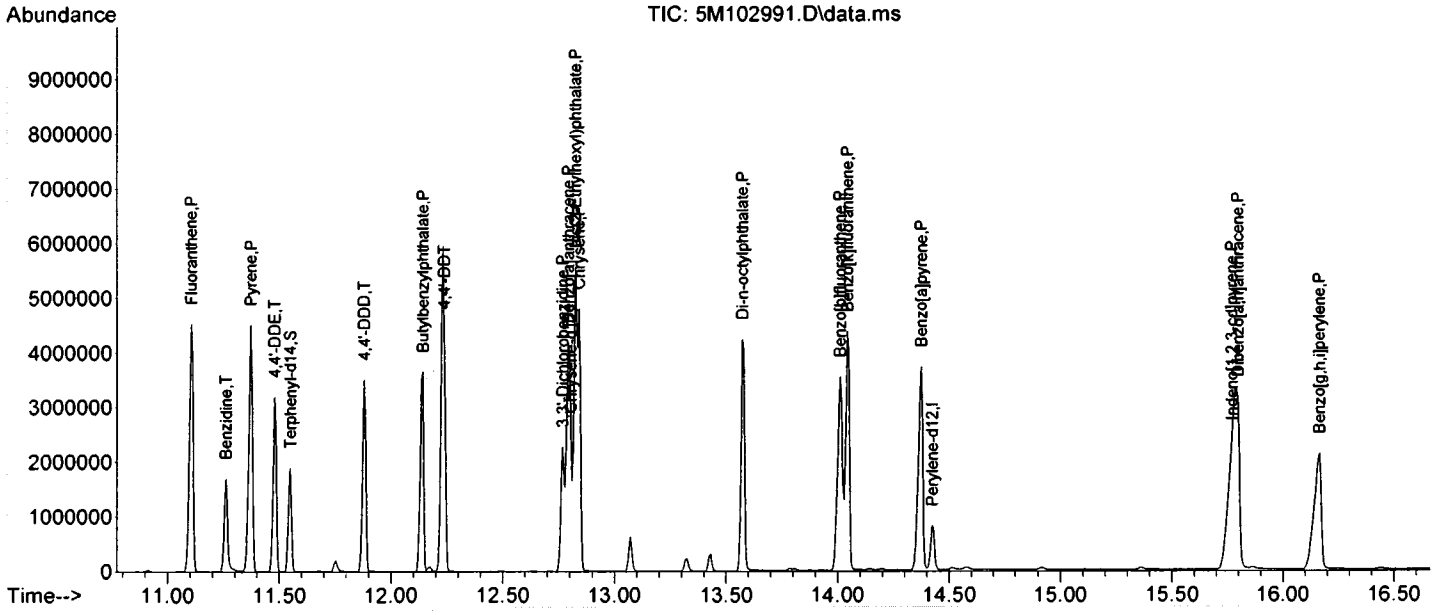
Data Path : G:\GcMsData\2018\GCMS_5\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_5\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.243	138	248533	206.6100	ng	76
67)	2,4-Dinitrophenol	8.328	184	184553	192.4184	ng	45
68)	Dibenzofuran	8.467	168	1590240	214.8447	ng	89
69)	2,4-Dinitrotoluene	8.451	165	376220	205.3524	ng	67
70)	4-Nitrophenol	8.371	65	276975	275.2670	ng	83
71)	2,3,4,6-Tetrachlorophenol	8.574	232	356336	223.1773	ng	83
72)	Fluorene	8.793	166	1299050	213.0840	ng	100
73)	4-Chlorophenyl-phenyle...	8.777	204	662744	217.8906	ng	82
74)	Diethylphthalate	8.659	149	1255792	221.2453	ng	96
75)	4-Nitroaniline	8.820	138	345618	202.8749	ng	87
76)	Atrazine	9.429	200	350957	216.8705	ng	95
78)	4,6-Dinitro-2-methylph...	8.836	198	229418	211.0497	ng	58
79)	n-Nitrosodiphenylamine	8.894	169	1104944	208.0483	ng	98
81)	1,2-Diphenylhydrazine	8.937	77	1383731	244.8444	ng	81
82)	4-Bromophenyl-phenylether	9.268	248	385704	216.4825	ng	81
83)	Hexachlorobenzene	9.332	284	391999	209.6308	ng	71
84)	N-Octadecane	9.594	57	722269	247.0644	ng	81
85)	Pentachlorophenol	9.535	266	278744	211.7852	ng	97
86)	Phenanthrene	9.776	178	1814198	200.0525	ng	99
87)	Anthracene	9.829	178	1886768	205.6707	ng	99
88)	Carbazole	10.000	167	1754725	207.2383	ng	98
89)	Di-n-butylphthalate	10.369	149	2122758	218.7758	ng	98
90)	Fluoranthene	11.106	202	2211953	223.1423	ng	87
92)	Pyrene	11.373	202	2189508	194.9422	ng	84
93)	Benzidine	11.261	184	731223	276.7628	ng	85
95)	4,4'-DDE	11.480	246	407121	213.2454	ng	94
96)	4,4'-DDD	11.881	235	670321	213.4318	ng	95
97)	Butylbenzylphthalate	12.142	149	979204	197.2721	ng	71
98)	4,4'-DDT	12.239	235	622759	233.6650	ng	98
99)	3,3'-Dichlorobenzidine	12.767	252	480933	200.2552	ng	95
100)	Benzo[a]anthracene	12.794	228	2152484	199.6803	ng	99
101)	Chrysene	12.842	228	2040612	197.3996	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.826	149	1381231	204.3740	ng	93
104)	Di-n-octylphthalate	13.574	149	2327766	203.1400	ng	100
105)	Benzo[b]fluoranthene	14.012	252	2156400	213.7293	ng	91
106)	Benzo[k]fluoranthene	14.044	252	1929606	191.3729	ng	92
107)	Benzo[a]pyrene	14.375	252	2026930	211.3385	ng	89
108)	Indeno[1,2,3-cd]pyrene	15.770	276	2252322	206.8049	ng	77
109)	Dibenzo[a,h]anthracene	15.796	278	1888810	203.7902	ng	85
110)	Benzo[g,h,i]perylene	16.165	276	1867989	203.4486	ng	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M102991.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@196PPM
Data File: 5M102991.D
Acq On : 02/23/18 10:09
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : A,BNA
Qt Meth : 5M_0223.M
Qt On : 02/23/18 11:43
Qt Upd On: 02/23/18 10:10
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 5M102991.D\data.ms
Benzaldehyde,P
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
Benzoic Acid,P
Naphthalene,P
Hexachlorobutadiene,P
Dimethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 5M102991.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P
Time-->

SampleID : CAL BNA@.5PPM Operator : AH/JB Qt Meth : 5M_0229.M
Data File: 5M102996.D Sam Mult : 1 Vial# : 9 Qt On : 02/23/18 12:45
Acq On : 02/23/18 12:06 Misc : A,BNA Qt Upd On: 02/23/18 10:10

Data Path : G:\GcMsData\2018\GCMS_5\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_5\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.649	96	38889	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.838	152	85411	40.00	ng	-0.02
31) Naphthalene-d8	6.843	136	320245	40.00	ng	-0.02
50) Acenaphthene-d10	8.275	164	197731	40.00	ng	-0.02
77) Phenanthrene-d10	9.738	188	357834	40.00	ng	-0.02
91) Chrysene-d12	12.794	240	414364	40.00	ng	-0.03
103) Perylene-d12	14.418	264	374662	40.00	ng	-0.03
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0d	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	0.000	128	0	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
55) 2-Fluorobiphenyl	0.000	172	0d	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	0.000	244	0d	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
8) 1,4-Dioxane	2.697	88	624m	0.6075	ng	
9) Pyridine	0.000		0	N.D.		
10) N-Nitrosodimethylamine	0.000		0	N.D. d		
12) Benzaldehyde	0.000		0	N.D. d		
13) Aniline	5.566	93	1696m	0.4950	ng	
14) Pentachloroethane	0.000		0	N.D. d		
15) bis(2-Chloroethyl)ether	5.619	93	1928	0.6627	ng	79
17) Phenol	0.000		0	N.D. d		
18) 2-Chlorophenol	0.000		0	N.D. d		
19) N-Decane	0.000		0	N.D. d		
20) 1,3-Dichlorobenzene	0.000		0	N.D. d		
22) 1,4-Dichlorobenzene	0.000		0	N.D. d		
23) 1,2-Dichlorobenzene	0.000		0	N.D. d		
24) Benzyl alcohol	0.000		0	N.D. d		
25) bis(2-chloroisopropyl)...	0.000		0	N.D. d		
26) 2-Methylphenol	6.041	108	1869	0.6198	ng	85
27) Acetophenone	0.000		0	N.D. d		
28) Hexachloroethane	0.000		0	N.D. d		
29) N-Nitroso-di-n-propyla...	6.164	70	1475	0.7247	ng	73
30) 3&4-Methylphenol	6.164	108	1778	0.6019	ng	87
33) Nitrobenzene	0.000		0	N.D. d		
34) Isophorone	0.000		0	N.D. d		
35) 2-Nitrophenol	0.000		0	N.D. d		
36) 2,4-Dimethylphenol	6.576	107	1702	0.5235	ng	94
37) Benzoic Acid	0.000		0	N.D.		
38) bis(2-Chloroethoxy)met...	0.000		0	N.D. d		
39) 2,4-Dichlorophenol	6.736	162	1205	0.4310	ng	75
40) 1,2,4-Trichlorobenzene	0.000		0	N.D. d		
41) Naphthalene	6.859	128	6316	0.6077	ng	97
42) 4-Chloroaniline	6.896	127	1428	0.4867	ng	91
43) Hexachlorobutadiene	0.000		0	N.D. d		
44) Caprolactam	0.000		0	N.D.		
45) 4-Chloro-3-methylphenol	0.000		0	N.D. d		
46) 2-Methylnaphthalene	0.000		0	N.D. d		
47) 1-Methylnaphthalene	0.000		0	N.D. d		
48) Methylnaphthalenes (To...	0.000		0	N.D. d		
49) 1,1'-Biphenyl	0.000		0	N.D. d		
51) 1,2,4,5-Tetrachloroben...	0.000		0	N.D. d		
52) Hexachlorocyclopentadiene	0.000		0	N.D.		
53) 2,4,6-Trichlorophenol	0.000		0	N.D. d		
54) 2,4,5-Trichlorophenol	0.000		0	N.D. d		
56) 2-Chloronaphthalene	0.000		0	N.D. d		
57) 1,4-Dimethylnaphthalene	0.000		0	N.D. d		
58) Dimethylnaphthalenes (...	0.000		0	N.D. d		
59) Diphenyl Ether	0.000		0	N.D. d		
60) 2-Nitroaniline	0.000		0	N.D. d		
61) Coumarin	0.000		0	N.D. d		
62) Acenaphthylene	0.000		0	N.D. d		
63) Dimethylphthalate	0.000		0	N.D. d		
64) 2,6-Dinitrotoluene	0.000		0	N.D. d		
65) Acenaphthene	0.000		0	N.D. d		

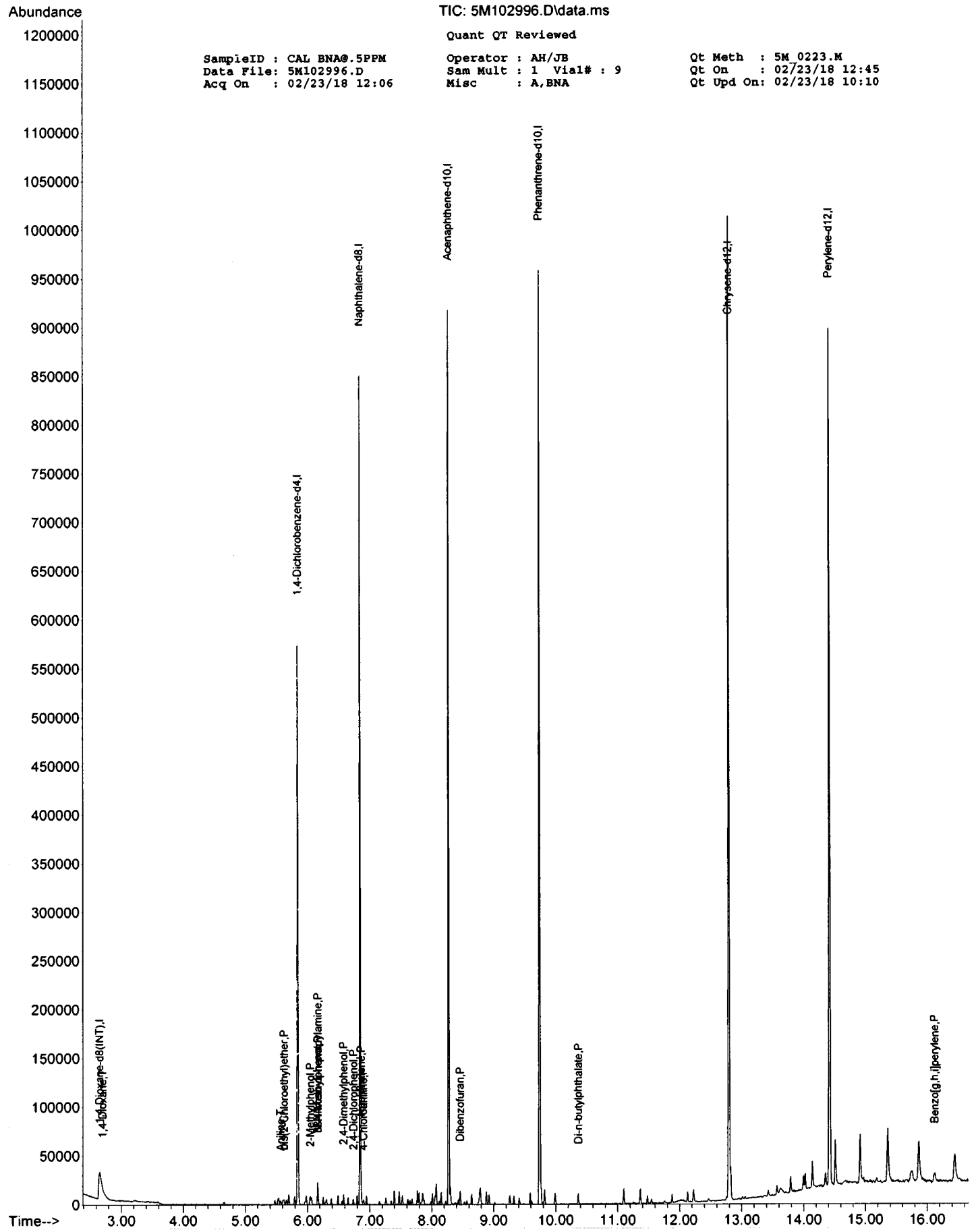
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@.5PPM Operator : AH/JB Qt Meth : 5M_0223.M
Data File: 5M102996.D Sam Mult : 1 Vial# : 9 Qt On : 02/23/18 12:45
Acq On : 02/23/18 12:06 Misc : A,BNA Qt Upd On: 02/23/18 10:10

Data Path : G:\GcMsData\2018\GCMS_5\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_5\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	0.000		0	N.D. d		
67)	2,4-Dinitrophenol	0.000		0	N.D.		
68)	Dibenzofuran	8.456	168	5679	0.6137	ng	86
69)	2,4-Dinitrotoluene	0.000		0	N.D. d		
70)	4-Nitrophenol	0.000		0	N.D. d		
71)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D. d		
72)	Fluorene	0.000		0	N.D. d		
73)	4-Chlorophenyl-phenyle...	0.000		0	N.D. d		
74)	Diethylphthalate	0.000		0	N.D. d		
75)	4-Nitroaniline	0.000		0	N.D. d		
76)	Atrazine	0.000		0	N.D. d		
78)	4,6-Dinitro-2-methylph...	0.000		0	N.D.		
79)	n-Nitrosodiphenylamine	0.000		0	N.D. d		
81)	1,2-Diphenylhydrazine	0.000		0	N.D. d		
82)	4-Bromophenyl-phenylether	0.000		0	N.D. d		
83)	Hexachlorobenzene	0.000		0	N.D. d		
84)	N-Octadecane	0.000		0	N.D. d		
85)	Pentachlorophenol	0.000		0	N.D. d		
86)	Phenanthrene	0.000		0	N.D. d		
87)	Anthracene	0.000		0	N.D. d		
88)	Carbazole	0.000		0	N.D. d		
89)	Di-n-butylphthalate	10.363	149	5882	0.4800	ng	98
90)	Fluoranthene	0.000		0	N.D. d		
92)	Pyrene	0.000		0	N.D. d		
93)	Benzidine	0.000		0	N.D. d		
95)	4,4'-DDE	0.000		0	N.D. d		
96)	4,4'-DDD	0.000		0	N.D. d		
97)	Butylbenzylphthalate	0.000		0	N.D. d		
98)	4,4'-DDT	0.000		0	N.D. d		
99)	3,3'-Dichlorobenzidine	0.000		0	N.D. d		
100)	Benzo[a]anthracene	0.000		0	N.D. d		
101)	Chrysene	0.000		0	N.D. d		
102)	bis(2-Ethylhexyl)phtha...	0.000		0	N.D. d		
104)	Di-n-octylphthalate	0.000		0	N.D. d		
105)	Benzo[b]fluoranthene	0.000		0	N.D. d		
106)	Benzo[k]fluoranthene	0.000		0	N.D. d		
107)	Benzo[a]pyrene	0.000		0	N.D. d		
108)	Indeno[1,2,3-cd]pyrene	0.000		0	N.D. d		
109)	Dibenzo[a,h]anthracene	0.000		0	N.D. d		
110)	Benzo[g,h,i]perylene	16.117	276	6237	0.6154	ng	72

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M102996.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@.5PPM
Data File: 5M102996.D
Acq On : 02/23/18 12:06
Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA
Qt Meth : 5M_0223.M
Qt On : 02/23/18 12:45
Qt Upd On: 02/23/18 10:10
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Chrysene-d12,I
Perylene-d12,I
1,4-Dioxane-d8(INT),I
2-Methylphenol,P
2,4-Dimethylphenol,P
2,4-Dichlorophenol,P
Dibenzofuran,P
Di-n-butylphthalate,P
Benzo(g,h,i)perylene,P
Time-->

8022605 0206

Method: EPA 8270D

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M67819.D	CAL BNA@50PPM	02/23/18 13:02	2	10M67812.D	CAL BNA@2PPM	02/23/18 10:27
3	10M67811.D	CAL BNA@10PPM	02/23/18 10:05	4	10M67817.D	CAL BNA@20PPM	02/23/18 12:17
5	10M67816.D	CAL BNA@80PPM	02/23/18 11:55	6	10M67815.D	CAL BNA@120PPM	02/23/18 11:33
7	10M67814.D	CAL BNA@160PPM	02/23/18 11:11	8	10M67813.D	CAL BNA@196PPM	02/23/18 10:49
9	10M67818.D	CAL BNA@.5PPM	02/23/18 12:40				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
1,4-Dioxane	1	0	Qua	0.9989	1.3800	1.0202	1.0444	1.0410	0.9841	0.9858	0.9926	1.1436	1.07	2.59	1.00	1.00	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pyridine	1	0	Avg	3.0213	2.7337	2.5983	3.0011	3.1494	3.0098	3.1434	3.1140	-----	2.97	3.06	0.999	0.999	6.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitrosodimethylamin	1	0	Avg	1.6979	1.5729	1.4832	1.7014	1.7912	1.7172	1.7594	1.7660	-----	1.69	2.99	1.00	1.00	6.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorophenol	1	0	Avg	2.3333	2.2193	1.9219	2.3135	2.4294	2.3300	2.3604	2.3597	-----	2.28	4.58	0.999	0.999	6.9		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzaldehyde	1	0	Qua	1.4023	1.4094	1.4184	1.7398	1.3308	1.1068	0.9740	0.9688	-----	1.29	5.41	0.975	0.993	20	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Aniline	1	0	Qua	3.9219	2.5311	2.7675	3.9223	3.9883	3.7744	3.6944	3.5958	2.8558	3.45	5.50	0.998	1.00	16		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Pentachloroethane	1	0	Avg	0.8104	0.7848	0.7100	0.8359	0.8469	0.8151	0.7916	0.7821	-----	0.797	5.54	0.999	1.00	5.3	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethyl)ether	1	0	Avg	2.7563	2.9452	2.4566	2.9112	2.7496	2.6094	2.4900	2.5545	3.2675	2.75	5.56	0.998	0.999	9.5	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Phenol-d5	1	0	Avg	2.9323	2.7872	2.4793	2.9782	2.9826	2.8474	2.7357	2.6791	-----	2.80	5.46	0.998	1.00	6.1		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Phenol	1	0	Avg	3.6387	3.5852	3.1567	3.8223	3.7241	3.4880	3.3283	3.2279	-----	3.50	5.47	0.996	1.00	6.9	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Chlorophenol	1	0	Avg	2.9030	2.7596	2.5186	3.0170	3.0090	2.8842	2.8281	2.7788	-----	2.84	5.59	0.999	1.00	5.6	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Decane	1	0	Avg	2.3592	2.5712	2.2072	2.5500	2.4402	2.1939	2.0906	2.0772	-----	2.31	5.64	0.996	0.999	8.5	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,3-Dichlorobenzene	1	0	Avg	3.1589	3.3942	2.8753	3.3399	3.2834	3.0380	3.0099	2.9242	-----	3.13	5.73	0.998	1.00	6.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dichlorobenzene	1	0	Avg	1.6494	1.9453	1.5592	1.7144	1.6925	1.6018	1.5252	1.5163	-----	1.65	5.79	0.998	1.00	8.5		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Dichlorobenzene	1	0	Avg	1.6007	1.8652	1.4779	1.6357	1.6214	1.5330	1.4460	1.4543	-----	1.58	5.91	0.997	0.999	8.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzyl alcohol	1	0	Avg	0.9811	0.9205	0.8290	0.9783	1.0056	0.9643	0.9329	0.9369	-----	0.944	5.89	0.999	0.999	5.8		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-chloroisopropyl)e	1	0	Avg	1.7499	2.0198	1.6306	1.7489	1.7013	1.5750	1.4984	1.5389	-----	1.68	6.00	0.997	0.998	9.8	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylphenol	1	0	Avg	1.3487	1.3958	1.2256	1.3760	1.3767	1.3324	1.2493	1.2779	1.5036	1.34	5.98	0.998	0.999	6.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Acetophenone	1	0	Avg	1.5754	1.8412	1.5266	1.7097	1.5514	1.3713	1.1940	1.1670	-----	1.49	6.10	0.983	0.999	16	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachloroethane	1	0	Avg	0.5967	0.6411	0.5237	0.5873	0.6041	0.5789	0.5497	0.5616	-----	0.580	6.19	0.998	0.999	6.2	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Nitroso-di-n-propyla	1	0	Avg	0.8950	0.9542	0.8391	0.9755	0.8810	0.7967	0.7233	0.7255	0.9858	0.864	6.10	0.992	0.998	12	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
3&4-Methylphenol	1	0	Qua	1.3414	1.4596	1.2548	1.4341	1.3053	1.1553	0.9867	0.9538	1.5853	1.28	6.10	0.977	0.998	17		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Nitrobenzene-d5	1	0	Avg	0.1625	0.1369	0.1299	0.1504	0.1766	0.1654	0.1612	0.1639	-----	0.156	6.22	0.999	0.999	10		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
Nitrobenzene	1	0	Avg	0.3608	0.3420	0.3087	0.3630	0.3739	0.3417	0.3240	0.3297	-----	0.343	6.24	0.997	0.998	6.4	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Isophorone	1	0	Avg	0.6823	0.6449	0.6093	0.6810	0.6971	0.6348	0.6189	0.6196	-----	0.649	6.42	0.998	0.999	5.2	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitrophenol	1	0	Avg	0.1993	0.1364	0.1511	0.1952	0.2221	0.2078	0.1973	0.1997	-----	0.189	6.49	0.997	0.999	15	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dimethylphenol	1	0	Avg	0.3714	0.3682	0.3417	0.3711	0.3829	0.3485	0.3222	0.3245	0.3687	0.356	6.51	0.995	0.998	6.2	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Benzoic Acid	1	0	Qua	0.1375	-----	0.0091	0.0629	0.2199	0.2268	0.2282	0.2289	-----	0.159	6.58	0.996	0.996	57		50.00		10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Chloroethoxy)me	1	0	Avg	0.4471	0.4947	0.4257	0.4630	0.4581	0.4030	0.3740	0.3818	-----	0.431	6.59	0.993	0.997	9.8	0.30	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dichlorophenol	1	0	Avg	0.3401	0.3037	0.2996	0.3387	0.3534	0.3266	0.3049	0.3117	0.3157	0.322	6.66	0.997	0.998	5.9	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
1,2,4-Trichlorobenzen	1	0	Avg	0.3682	0.4171	0.3476	0.3774	0.3833	0.3488	0.3276	0.3311	-----	0.363	6.73	0.996	0.998	8.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Naphthalene	1	0	Qua	1.1885	1.4505	1.1394	1.2322	1.1887	1.0644	0.9814	0.9643	1.5423	1.19	6.80	0.992	0.999	16	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
4-Chloroaniline	1	0	Qua	0.4521	0.3485	0.3388	0.4434	0.4382	0.3570	0.2992	0.2734	0.3816	0.370	6.83	0.948	0.996	17	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Hexachlorobutadiene	1	0	Avg	0.2058	0.2312	0.1965	0.2127	0.2203	0.2007	0.1954	0.1958	-----	0.207	6.88	0.998	0.999	6.3	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Caprolactam	1	0	Qua	0.1125	0.0584	0.0807	0.1105	0.1225	0.1249	0.1211	0.1225	-----	0.107	7.10	0.999	0.999	23	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chloro-3-methylphe	1	0	Avg	0.3190	0.2870	0.2817	0.3235	0.3315	0.3042	0.2937	0.2924	-----	0.304	7.19	0.997	0.999	6.1	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Methylnaphthalene	1	0	Avg	0.7967	0.9338	0.7844	0.8430	0.7902	0.7165	0.6449	0.6332	-----	0.768	7.33	0.989	0.999	13	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1-Methylnaphthalene	1	0	Avg	0.7719	0.8988	0.7625	0.8111	0.7895	0.6911	0.6430	0.6254	-----	0.749	7.40	0.990	0.998	12	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Methylnaphthalenes (	1	0	Avg	0.7831	0.9163	0.7698	0.8214	0.7865	0.7003	0.6348	0.6258	-----	0.755	7.40	0.989	0.998	13		100.0	4.00	20.00	40.00	160.0	240.0	320.0	392.0	
1,1'-Biphenyl	1	0	Avg	0.8768	1.0111	0.8336	0.8937	0.8849	0.7931	0.7397	0.7207	-----	0.844	7.70	0.992	0.999	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2,4,5-Tetrachloroben	1	0	Avg	0.5442	0.6285	0.5305	0.5788	0.5739	0.5272	0.5109	0.5011	-----	0.549	7.46	0.998	0.999	7.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 11.3

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

8022605 0207

Method: EPA 8270D

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M67819.D	CAL BNA@50PPM	02/23/18 13:02	2	10M67812.D	CAL BNA@2PPM	02/23/18 10:27
3	10M67811.D	CAL BNA@10PPM	02/23/18 10:05	4	10M67817.D	CAL BNA@20PPM	02/23/18 12:17
5	10M67816.D	CAL BNA@80PPM	02/23/18 11:55	6	10M67815.D	CAL BNA@120PPM	02/23/18 11:33
7	10M67814.D	CAL BNA@160PPM	02/23/18 11:11	8	10M67813.D	CAL BNA@196PPM	02/23/18 10:49
9	10M67818.D	CAL BNA@.5PPM	02/23/18 12:40				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
Hexachlorocyclopenta	1	0	Avg	0.3686	0.2656	0.2988	0.3640	0.4138	0.3854	0.3823	0.3742	-----	0.357	7.44	0.998	0.999	14	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Trichlorophenol	1	0	Avg	0.3971	0.2975	0.3333	0.4109	0.4251	0.3914	0.3923	0.3830	-----	0.379	7.54	0.998	0.999	11	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,5-Trichlorophenol	1	0	Avg	0.3905	0.3176	0.3637	0.4385	0.4643	0.4324	0.4179	0.4167	-----	0.405	7.57	0.997	0.998	12	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Fluorobiphenyl	1	0	Avg	1.3629	1.4540	1.2455	1.3781	1.4016	1.3133	1.2586	1.2841	-----	1.34	7.61	0.998	0.999	5.5		25.00	1.00	5.00	10.00	40.00	60.00	80.00	98.00	
2-Chloronaphthalene	1	0	Qua	1.2094	1.3493	1.1917	1.3298	1.2251	1.1077	1.0661	1.0576	-----	1.19	7.72	0.996	0.999	9.3	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,4-Dimethylnaphthale	1	0	Avg	0.8447	0.9483	0.8443	0.8948	0.8329	0.7219	0.6549	0.5999	-----	0.793	8.00	0.981	0.999	15		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylnaphthalenes	1	0	Avg	0.8447	0.9483	0.8443	0.8948	0.8329	0.7219	0.6549	0.5999	-----	0.793	8.00	0.981	0.999	15		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diphenyl Ether	1	0	Avg	0.7969	0.8964	0.7823	0.8258	0.8196	0.7534	0.7130	0.6975	-----	0.786	7.78	0.995	0.999	8.2		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2-Nitroaniline	1	0	Qua	0.3487	0.2748	0.2682	0.3477	0.3683	0.3362	0.3211	0.3241	-----	0.324	7.79	0.997	0.999	11	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Coumarin	1	0	Avg	0.4336	0.4425	0.4054	0.4447	0.4438	0.3865	0.3448	0.3138	-----	0.402	7.98	0.973	0.999	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthylene	1	0	Avg	1.8433	1.8674	1.7340	1.9199	1.8528	1.6968	1.5758	1.5269	-----	1.75	8.08	0.993	0.999	8.2	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dimethylphthalate	1	0	Avg	1.3327	1.4138	1.2546	1.3799	1.3744	1.2475	1.2029	1.1858	-----	1.30	7.94	0.996	0.999	6.7	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,6-Dinitrotoluene	1	0	Qua	0.2959	0.2070	0.2503	0.3022	0.3032	0.2656	0.2513	0.2391	-----	0.264	8.00	0.989	0.999	13	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Acenaphthene	1	0	Avg	1.1884	1.4392	1.1768	1.2759	1.1957	1.0771	1.0016	0.9652	-----	1.17	8.23	0.991	0.999	13	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3-Nitroaniline	1	0	Qua	0.3395	0.2229	0.2549	0.3382	0.3521	0.3062	0.2841	0.2743	-----	0.297	8.15	0.987	0.998	15	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4-Dinitrophenol	1	0	Qua	0.1355	-----	0.0452	0.1010	0.1734	0.1689	0.1813	0.1806	-----	0.141	8.24	0.998	0.998	36	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzofuran	1	0	Qua	1.7294	2.0518	1.6917	1.8200	1.7601	1.5754	1.4598	1.4322	2.3529	1.76	8.38	0.993	0.999	16	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
2,4-Dinitrotoluene	1	0	Qua	0.4038	0.2375	0.2839	0.3919	0.4331	0.4104	0.3998	0.3992	-----	0.370	8.35	0.999	0.999	19	0.20	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitrophenol	1	0	Qua	0.2281	0.1197	0.1600	0.2120	0.2360	0.2135	0.2067	0.2128	-----	0.199	8.27	0.997	0.998	20	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,3,4,6-Tetrachlorophe	1	0	Avg	0.3882	0.2531	0.3159	0.3907	0.4129	0.3896	0.3843	0.3909	-----	0.366	8.48	0.999	0.999	15	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Fluorene	1	0	Avg	1.3520	1.5272	1.3533	1.4845	1.3659	1.2279	1.1205	1.0831	-----	1.31	8.70	0.989	0.999	12	0.90	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Chlorophenyl-phenyl	1	0	Avg	0.6925	0.7734	0.6662	0.7387	0.7185	0.6702	0.6262	0.6025	-----	0.686	8.69	0.994	1.00	8.3	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Diethylphthalate	1	0	Avg	1.2645	1.2417	1.1546	1.3098	1.3117	1.2209	1.1551	1.1523	-----	1.23	8.57	0.997	0.999	5.5	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Nitroaniline	1	0	Qua	0.3792	0.2287	0.2910	0.3795	0.4072	0.3815	0.3763	0.3839	-----	0.353	8.71	0.999	0.999	17	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Atrazine	1	0	Qua	0.3737	0.2740	0.3138	0.3754	0.4010	0.3752	0.3583	0.3715	-----	0.355	9.33	0.998	0.998	12	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,6-Dinitro-2-methylph	1	0	Qua	0.1147	-----	0.0533	0.0971	0.1391	0.1405	0.1373	0.1386	-----	0.117	8.73	0.999	0.999	28	0.01	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
n-Nitrosodiphenylamin	1	0	Avg	0.7052	0.7116	0.6615	0.7382	0.7026	0.6542	0.5930	0.5788	-----	0.668	8.80	0.992	0.999	8.6	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
2,4,6-Tribromophenol	1	0	Qua	0.1291	0.0750	0.0967	0.1262	0.1469	0.1443	0.1410	0.1399	-----	0.125	8.93	0.999	0.999	21		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
1,2-Diphenylhydrazine	1	0	Avg	0.7007	0.6469	0.6401	0.7348	0.6993	0.6524	0.6536	0.6408	-----	0.671	8.84	0.998	1.00	5.3		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4-Bromophenyl-phenyl	1	0	Avg	0.2541	0.2549	0.2313	0.2595	0.2703	0.2611	0.2465	0.2434	-----	0.253	9.17	0.997	0.999	4.8	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Hexachlorobenzene	1	0	Avg	0.2985	0.3245	0.2669	0.3092	0.3182	0.3044	0.2877	0.2860	-----	0.299	9.24	0.996	0.996	6.3	0.10	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
N-Octadecane	1	0	Qua	0.3933	0.3498	0.3560	0.4072	0.3939	0.3488	0.3066	0.2960	-----	0.356	9.50	0.981	0.998	11	0.05	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pentachlorophenol	1	0	Qua	0.1535	-----	0.0695	0.1277	0.1819	0.1856	0.1812	0.1854	-----	0.155	9.43	0.999	0.999	28	0.05	50.00		10.00	20.00	80.00	120.0	160.0	196.0	
Phenanthrene	1	0	Avg	1.1583	1.4032	1.1633	1.2486	1.1776	1.0750	0.9936	0.9583	-----	1.15	9.67	0.992	0.999	12	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Anthracene	1	0	Avg	1.2051	1.2562	1.1411	1.2737	1.2121	1.1312	1.0309	0.9957	-----	1.16	9.73	0.991	0.999	8.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Carbazole	1	0	Avg	1.1272	1.1339	1.0205	1.1775	1.1530	1.0428	0.9693	0.9545	-----	1.07	9.89	0.993	0.999	8.1	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-butylphthalate	1	0	Qua	1.2231	0.8594	0.9581	1.2547	1.2609	1.1531	1.0686	1.0465	0.9580	1.09	10.27	0.993	0.999	13	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	0.50
Fluoranthene	1	0	Avg	1.2764	1.2449	1.1541	1.3468	1.3061	1.1766	1.0892	1.0796	-----	1.21	11.00	0.993	0.999	8.2	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Pyrene	1	0	Avg	1.1477	1.1473	1.0751	1.1966	1.1746	1.0803	1.0174	1.0102	-----	1.11	11.26	0.996	0.999	6.4	0.60	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzidine	1	0	Qua	0.4377	0.1070	0.2070	0.4094	0.4316	0.3733	0.3274	0.3171	-----	0.326	11.15	0.975	0.996	36		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Terphenyl-d14	1	0	Avg	0.6654	0.6236	0.5919	0.6767	0.7302	0.6993	0.6825	0.7028	-----	0.672	11.44	0.999	0.999	6.7		25.00	1.00	5.00	10.00	40.00	60.00	80.00	96.00	

Avg Rsd: 11.3

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note:

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

Method: EPA 8270D

Form 6
Initial Calibration

Instrument: GCMS_10

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	10M67819.D	CAL BNA@50PPM	02/23/18 13:02	2	10M67812.D	CAL BNA@2PPM	02/23/18 10:27
3	10M67811.D	CAL BNA@10PPM	02/23/18 10:05	4	10M67817.D	CAL BNA@20PPM	02/23/18 12:17
5	10M67816.D	CAL BNA@80PPM	02/23/18 11:55	6	10M67815.D	CAL BNA@120PPM	02/23/18 11:33
7	10M67814.D	CAL BNA@160PPM	02/23/18 11:11	8	10M67813.D	CAL BNA@196PPM	02/23/18 10:49
9	10M67818.D	CAL BNA@.5PPM	02/23/18 12:40				

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	RF9	AvgRf	RT	Corr1	Corr2	%Rsd		Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8	Lvl9
4,4'-DDE	1	0	Avg	0.2059	0.1831	0.2061	0.2177	0.2219	0.2155	0.2060	0.2119	-----	0.209	11.38	0.999	0.999	5.7		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDD	1	0	Avg	0.3404	0.2442	0.3154	0.3589	0.3791	0.3653	0.3486	0.3478	-----	0.338	11.78	0.999	0.999	12		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Butylbenzylphthalate	1	0	Qua	0.4625	0.2439	0.3301	0.4581	0.4951	0.4739	0.4512	0.4542	-----	0.421	12.03	0.998	0.999	21	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
4,4'-DDT	1	0	Avg	0.2979	0.1900	0.2704	0.3114	0.3254	0.3078	0.2839	0.2818	-----	0.284	12.13	0.996	0.999	15		50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
3,3'-Dichlorobenzidine	1	0	Qua	0.3168	0.1824	0.1951	0.2968	0.3332	0.2937	0.2640	0.2602	-----	0.268	12.65	0.986	0.997	20	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]anthracene	1	0	Avg	1.1153	1.1583	1.0154	1.1534	1.1787	1.0875	1.0555	1.0440	-----	1.10	12.68	0.998	0.999	5.4	0.80	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Chrysene	1	0	Qua	1.0732	1.2373	1.0615	1.1540	1.1016	0.9931	0.9307	0.9173	-----	1.06	12.72	0.994	0.999	10	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
bis(2-Ethylhexyl)phthal	1	0	Qua	0.6214	0.3643	0.4933	0.6439	0.6509	0.5807	0.5262	0.5241	-----	0.551	12.72	0.991	0.998	17	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Di-n-octylphthalate	1	0	Qua	1.0738	0.5003	0.6971	1.0469	1.1546	1.0752	0.9781	0.9638	-----	0.936	13.46	0.992	0.998	24	0.01	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[b]fluoranthene	1	0	Avg	1.2399	1.1190	1.0456	1.2262	1.2263	1.1460	1.1084	1.0886	-----	1.15	13.88	0.997	0.999	6.3	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[k]fluoranthene	1	0	Avg	1.1034	1.2588	1.1178	1.1851	1.2342	1.1063	0.9772	1.0110	-----	1.12	13.91	0.990	0.995	8.8	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[a]pyrene	1	0	Avg	1.1503	1.0438	1.0014	1.1771	1.2238	1.1292	1.0497	1.0560	-----	1.10	14.23	0.995	0.998	7.0	0.70	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Indeno[1,2,3-cd]pyren	1	0	Avg	1.2949	1.2810	1.1644	1.3201	1.3967	1.3191	1.2508	1.2449	-----	1.28	15.57	0.998	0.999	5.3	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Dibenzo[a,h]anthracen	1	0	Avg	1.1151	1.0785	1.0005	1.1082	1.1858	1.1022	1.0419	1.0235	-----	1.08	15.60	0.996	0.999	5.5	0.40	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	
Benzo[g,h,i]perylene	1	0	Avg	1.0982	1.1273	1.0233	1.1375	1.2043	1.1359	1.0822	1.0813	-----	1.11	15.94	0.998	0.999	4.8	0.50	50.00	2.00	10.00	20.00	80.00	120.0	160.0	196.0	

Flags

a - failed the min rf criteria

c - failed the minimum correlation coeff criteria(if applicable)

Note: Avg Rsd: 11.3

Corr 1 = Correlation Coefficient for linear Eq.

Corr 2 = Correlation Coefficient for quad Eq.

Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 10M_0223M
Data File: 10M67819.D Sam Mult : 1 Vial# : 10 Qt On : 02/23/18 13:19
Acq On : 02/23/18 13:02 Misc : A,BNA Qt Upd On: 02/21/18 16:16

Data Path : G:\GcMsData\2018\GCMS_10\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.561	96	61867	40.00	ng	-0.06
21) 1,4-Dichlorobenzene-d4	5.776	152	121382	40.00	ng	-0.04
31) Naphthalene-d8	6.781	136	455643	40.00	ng	-0.04
50) Acenaphthene-d10	8.193	164	286677	40.00	ng	-0.05
77) Phenanthrene-d10	9.643	188	494937	40.00	ng	-0.06
91) Chrysene-d12	12.686	240	569798	40.00	ng	-0.06
103) Perylene-d12	14.291	264	564310	40.00	ng	-0.07
System Monitoring Compounds						
11) 2-Fluorophenol	4.578	112	180449	48.43	ng	-0.05
Spiked Amount 100.000			Recovery = 48.43%			
16) Phenol-d5	5.460	99	226771	50.03	ng	-0.04
Spiked Amount 100.000			Recovery = 50.03%			
32) Nitrobenzene-d5	6.225	128	46293	26.24	ng	-0.04
Spiked Amount 50.000			Recovery = 52.48%			
55) 2-Fluorobiphenyl	7.610	172	244209	24.33	ng	-0.05
Spiked Amount 50.000			Recovery = 48.66%			
80) 2,4,6-Tribromophenol	8.926	330	79904	50.54	ng	-0.06
Spiked Amount 100.000			Recovery = 50.54%			
94) Terphenyl-d14	11.440	244	236963	23.63	ng	-0.06
Spiked Amount 50.000			Recovery = 47.26%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.593	88	77250m	45.8454	ng	
9) Pyridine	3.064	79	233649	48.2525	ng	66
10) N-Nitrosodimethylamine	2.989	74	131311	49.9807	ng	70
12) Benzaldehyde	5.407	77	108447	56.2750	ng	70
13) Aniline	5.498	93	303302	47.3908	ng	35
14) Pentachloroethane	5.540	117	62674	45.1292	ng	76
15) bis(2-Chloroethyl)ether	5.556	93	213160	47.0597	ng	77
17) Phenol	5.471	94	281398	48.5769	ng	77
18) 2-Chlorophenol	5.594	128	224503	46.9424	ng	77
19) N-Decane	5.637	57	182447m	50.0691	ng	
20) 1,3-Dichlorobenzene	5.728	146	244294	45.6451	ng	96
22) 1,4-Dichlorobenzene	5.792	146	250261	47.4720	ng	98
23) 1,2-Dichlorobenzene	5.915	146	242879	48.6060	ng	97
24) Benzyl alcohol	5.888	108	148870	51.7487	ng	66
25) bis(2-chloroisopropyl)...	6.000	45	265509	57.7992	ng	95
26) 2-Methylphenol	5.979	108	204637	49.2857	ng	96
27) Acetophenone	6.102	105	239041	51.1252	ng	74
28) Hexachloroethane	6.188	117	90548	50.4697	ng	91
29) N-Nitroso-di-n-propyla...	6.102	70	135798	52.2117	ng	68
30) 3&4-Methylphenol	6.102	108	203527	52.1399	ng	98
33) Nitrobenzene	6.241	77	205499	54.1378	ng	71
34) Isophorone	6.423	82	388656	52.5737	ng	84
35) 2-Nitrophenol	6.487	139	113551	49.1319	ng	76
36) 2,4-Dimethylphenol	6.508	107	211579	50.2777	ng	87
37) Benzoic Acid	6.583	105	78360	45.0143	ng	83
38) bis(2-Chloroethoxy)met...	6.589	93	254696	51.3407	ng	96
39) 2,4-Dichlorophenol	6.664	162	193727	49.7871	ng	86
40) 1,2,4-Trichlorobenzene	6.733	180	209747	47.3338	ng	97
41) Naphthalene	6.797	128	676916	51.8985	ng	100
42) 4-Chloroaniline	6.829	127	257510	57.3859	ng	95
43) Hexachlorobutadiene	6.883	225	117259	46.4444	ng	97
44) Caprolactam	7.102	113	64125	49.7728	ng	62
45) 4-Chloro-3-methylphenol	7.188	107	181727	52.7585	ng	77
46) 2-Methylnaphthalene	7.327	142	453802	50.2009	ng	98
47) 1-Methylnaphthalene	7.402	142	439687	49.7383	ng	93
48) Methylnaphthalenes (To...	7.402	142	892084m	99.9946	ng	
49) 1,1'-Biphenyl	7.696	154	499401	49.2759	ng	94
51) 1,2,4,5-Tetrachloroben...	7.455	216	195017	46.2841	ng	97
52) Hexachlorocyclopentadiene	7.444	237	132089	47.4055	ng	98
53) 2,4,6-Trichlorophenol	7.541	196	142308	51.4621	ng	99
54) 2,4,5-Trichlorophenol	7.573	196	139938	44.8649	ng	99
56) 2-Chloronaphthalene	7.717	162	433417	50.0996	ng	91
57) 1,4-Dimethylnaphthalene	7.995	156	302721	49.9694	ng	86
58) Dimethylnaphthalenes (...	7.995	156	302721	49.9694	ng	86
59) Diphenyl Ether	7.781	170	285587	47.3484	ng	68
60) 2-Nitroaniline	7.792	65	124982	55.4901	ng	50
61) Coumarin	7.979	146	155384	50.9073	ng	82
62) Acenaphthylene	8.076	152	660551	49.6694	ng	100
63) Dimethylphthalate	7.942	163	477601	49.0501	ng	98
64) 2,6-Dinitrotoluene	7.995	165	106034	51.7408	ng	56
65) Acenaphthene	8.225	153	425872	48.7264	ng	97

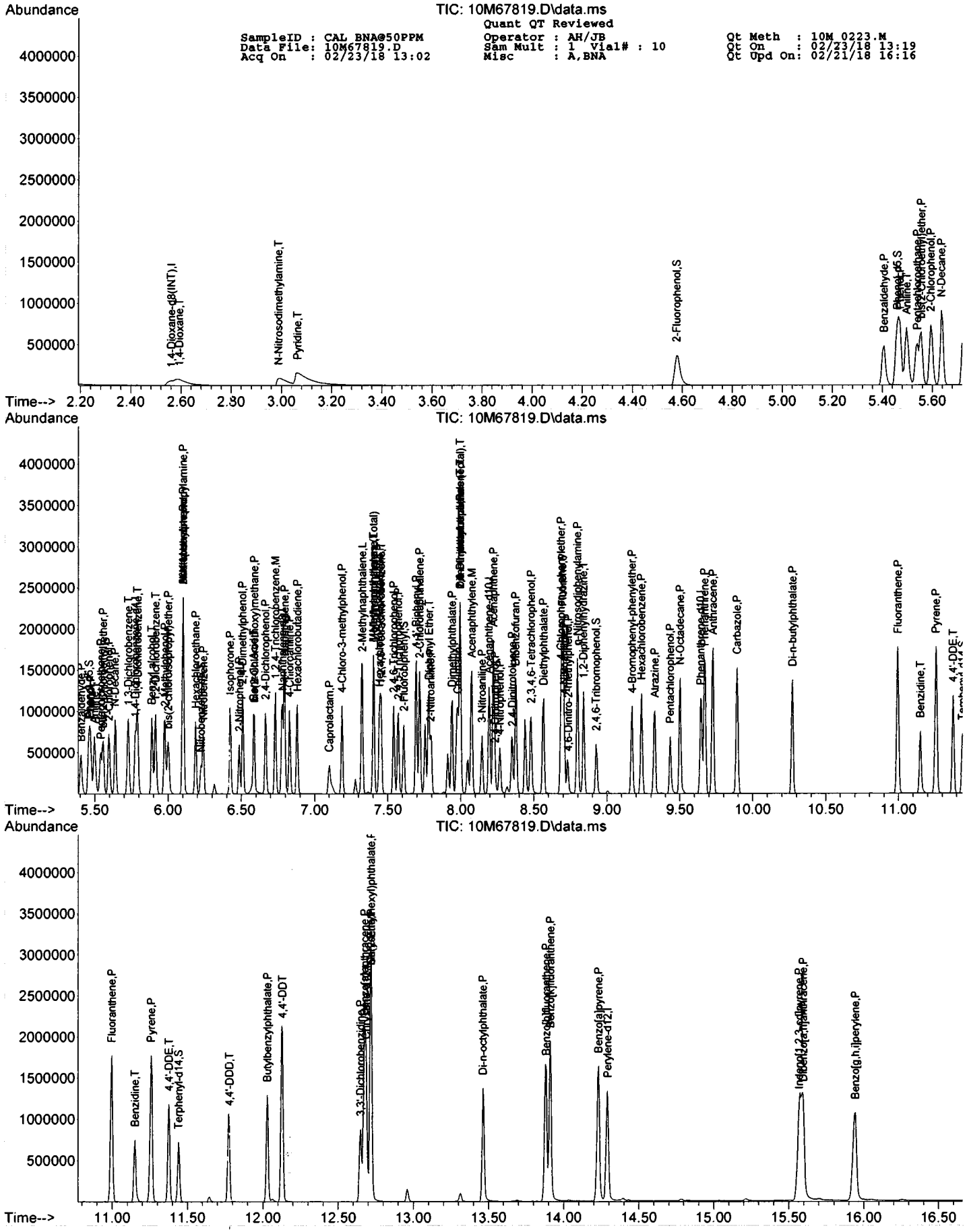
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 10M_0223.M
Data File: 10M67819.D Sam Mult : 1 Vial# : 10 Qt On : 02/23/18 13:19
Acq On : 02/23/18 13:02 Misc : A,BNA Qt Upd On: 02/21/18 16:16

Data Path : G:\GcMsData\2018\GCMS_10\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.145	138	121688	52.2412	ng	71
67)	2,4-Dinitrophenol	8.236	184	48581	51.1989	ng	29
68)	Dibenzofuran	8.375	168	619725	50.3780	ng	80
69)	2,4-Dinitrotoluene	8.354	165	144734	51.0402	ng	50
70)	4-Nitrophenol	8.268	65	81771	58.6041	ng	96
71)	2,3,4,6-Tetrachlorophenol	8.482	232	139128	48.6434	ng	77
72)	Fluorene	8.696	166	484494	49.1712	ng	99
73)	4-Chlorophenyl-phenyle...	8.685	204	248179	48.0808	ng	78
74)	Diethylphthalate	8.568	149	453148	49.6195	ng	94
75)	4-Nitroaniline	8.707	138	135904	51.5308	ng	63
76)	Atrazine	9.327	200	133946	49.9658	ng	93
78)	4,6-Dinitro-2-methylph...	8.733	198	70990	51.3258	ng	88
79)	n-Nitrosodiphenylamine	8.798	169	436342	50.4307	ng	99
81)	1,2-Diphenylhydrazine	8.840	77	433546	51.4115	ng	77
82)	4-Bromophenyl-phenylether	9.172	248	157203	48.1942	ng	74
83)	Hexachlorobenzene	9.236	284	184700	48.2561	ng	56
84)	N-Octadecane	9.504	57	243326	57.9306	ng	73
85)	Pentachlorophenol	9.434	266	95015	45.2803	ng	98
86)	Phenanthrene	9.669	178	716653	48.3782	ng	100
87)	Anthracene	9.728	178	745579	50.0376	ng	100
88)	Carbazole	9.894	167	697377	51.0228	ng	97
89)	Di-n-butylphthalate	10.274	149	756731	51.1958	ng	97
90)	Fluoranthene	10.996	202	789712	50.7736	ng	93
92)	Pyrene	11.258	202	817473	49.2206	ng	90
93)	Benzidine	11.151	184	311789	58.9474	ng	89
95)	4,4'-DDE	11.376	246	146703	46.6787	ng	88
96)	4,4'-DDD	11.777	235	242471	47.0070	ng	93
97)	Butylbenzylphthalate	12.028	149	329479	52.6878	ng	69
98)	4,4'-DDT	12.130	235	212220	52.2877	ng	95
99)	3,3'-Dichlorobenzidine	12.649	252	225683	49.2401	ng	96
100)	Benzo[a]anthracene	12.675	228	794389	47.7505	ng	99
101)	Chrysene	12.718	228	764392	50.4780	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.718	149	442635	54.7399	ng	88
104)	Di-n-octylphthalate	13.462	149	757450	49.1390	ng	100
105)	Benzo[b]fluoranthene	13.884	252	874638	50.6696	ng	92
106)	Benzo[k]fluoranthene	13.911	252	778356	45.6617	ng	93
107)	Benzo[a]pyrene	14.232	252	811439	49.1056	ng	91
108)	Indeno[1,2,3-cd]pyrene	15.569	276	913428	48.0878	ng	79
109)	Dibenzo[a,h]anthracene	15.596	278	786614	48.8306	ng	87
110)	Benzo[g,h,i]perylene	15.943	276	774708	46.7585	ng	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M67819.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 10M67819.D
Acq On : 02/23/18 13:02
Operator : AH/JB
Sam Mult : 1 Vial# : 10
Misc : A,BNA
Qt Meth : 10M_0223.M
Qt On : 02/23/18 13:19
Qt Upd On: 02/21/18 16:16
1,4-Dioxane-d8(INT),I
1,4-Dioxane,I
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d5,S
Aniline,T
2-Chlorophenol,P
N-Decane,P
Time-->

SampleID : CAL BNA@2PPM Operator : AH/JB Qt Meth : 10M_0293M
Data File: 10M67812.D Sam Mult : 1 Vial# : 3 Qt On : 02/23/18 12:07
Acq On : 02/23/18 10:27 Misc : A,BNA Qt Upd On: 02/21/18 16:16

Data Path : G:\GcMsData\2018\GCMS_10\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.556	96	62406	40.00	ng	-0.06
21) 1,4-Dichlorobenzene-d4	5.776	152	116822	40.00	ng	-0.04
31) Naphthalene-d8	6.776	136	429630	40.00	ng	-0.05
50) Acenaphthene-d10	8.188	164	273416	40.00	ng	-0.06
77) Phenanthrene-d10	9.643	188	477118	40.00	ng	-0.06
91) Chrysene-d12	12.681	240	561098	40.00	ng	-0.07
103) Perylene-d12	14.291	264	532593	40.00	ng	-0.07
System Monitoring Compounds						
11) 2-Fluorophenol	4.578	112	6925m	1.84	ng	-0.05
Spiked Amount 100.000			Recovery = 1.84%			
16) Phenol-d5	5.455	99	8697	1.90	ng	-0.04
Spiked Amount 100.000			Recovery = 1.90%			
32) Nitrobenzene-d5	6.220	128	1471	0.88	ng	-0.05
Spiked Amount 50.000			Recovery = 1.76%			
55) 2-Fluorobiphenyl	7.605	172	9939	1.04	ng	-0.05
Spiked Amount 50.000			Recovery = 2.08%			
80) 2,4,6-Tribromophenol	8.926	330	1791	1.24	ng	-0.06
Spiked Amount 100.000			Recovery = 1.24%			
94) Terphenyl-d14	11.440	244	8748	0.89	ng	-0.06
Spiked Amount 50.000			Recovery = 1.78%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.593	88	4306	2.5334	ng	50
9) Pyridine	3.192	79	8530	1.7464	ng	60
10) N-Nitrosodimethylamine	3.059	74	4908	1.8520	ng	87
12) Benzaldehyde	5.401	77	4398	2.0364	ng	74
13) Aniline	5.498	93	7898	1.2068	ng	37
14) Pentachloroethane	5.535	117	2449	1.7482	ng	70
15) bis(2-Chloroethyl)ether	5.551	93	9190	2.0114	ng	80
17) Phenol	5.466	94	11187	1.9145	ng	76
18) 2-Chlorophenol	5.594	128	8611	1.7850	ng	74
19) N-Decane	5.637	57	8023	2.1827	ng	79
20) 1,3-Dichlorobenzene	5.722	146	10591	1.9618	ng	94
22) 1,4-Dichlorobenzene	5.787	146	11363	2.2396	ng	99
23) 1,2-Dichlorobenzene	5.910	146	10895	2.2655	ng	98
24) Benzyl alcohol	5.888	108	5377	1.9421	ng	65
25) bis(2-chloroisopropyl)...	5.995	45	11798	2.6686	ng	91
26) 2-Methylphenol	5.974	108	8153	2.0403	ng	100
27) Acetophenone	6.097	105	10755	2.3900	ng	73
28) Hexachloroethane	6.182	117	3745	2.1689	ng	85
29) N-Nitroso-di-n-propyla...	6.097	70	5574	2.2267	ng	69
30) 3&4-Methylphenol	6.097	108	8526	2.0889	ng	96
33) Nitrobenzene	6.236	77	7348	2.0530	ng	72
34) Isophorone	6.418	82	13855	1.9876	ng	88
35) 2-Nitrophenol	6.482	139	2931	1.3768	ng	82
36) 2,4-Dimethylphenol	6.509	107	7910	1.9935	ng	85
37) Benzoic Acid	0.000		0	N.D. d		
38) bis(2-Chloroethoxy)met...	6.583	93	10627	2.2719	ng	96
39) 2,4-Dichlorophenol	6.664	162	6525	1.7784	ng	81
40) 1,2,4-Trichlorobenzene	6.728	180	8961	2.1447	ng	97
41) Naphthalene	6.792	128	31159	2.4432	ng	99
42) 4-Chloroaniline	6.830	127	7487	1.7695	ng	99
43) Hexachlorobutadiene	6.878	225	4968	2.0869	ng	94
44) Caprolactam	7.076	113	1255	1.0948	ng	70
45) 4-Chloro-3-methylphenol	7.183	107	6166	1.8985	ng	74
46) 2-Methylnaphthalene	7.322	142	20061	2.3536	ng	97
47) 1-Methylnaphthalene	7.402	142	19309	2.3165	ng	93
48) Methylnaphthalenes (To...	7.322	142	39370m	4.6802	ng	
49) 1,1'-Biphenyl	7.691	154	21721	2.2730	ng	95
51) 1,2,4,5-Tetrachloroben...	7.450	216	8593	2.1383	ng	97
52) Hexachlorocyclopentadiene	7.439	237	3631	1.3907	ng	100
53) 2,4,6-Trichlorophenol	7.536	196	4068	1.5424	ng	99
54) 2,4,5-Trichlorophenol	7.568	196	4343	1.4599	ng	99
56) 2-Chloronaphthalene	7.712	162	18446	2.1742	ng	91
57) 1,4-Dimethylnaphthalene	7.990	156	12965	2.2439	ng	87
58) Dimethylnaphthalenes (...	7.990	156	12965	2.2439	ng	87
59) Diphenyl Ether	7.776	170	12255	2.1303	ng	71
60) 2-Nitroaniline	7.787	65	3757	1.7415	ng	61
61) Coumarin	7.974	146	6050	2.0783	ng	83
62) Acenaphthylene	8.070	152	25529	2.0127	ng	98
63) Dimethylphthalate	7.931	163	19329	2.0814	ng	96
64) 2,6-Dinitrotoluene	7.990	165	2830	1.3726	ng	65
65) Acenaphthene	8.220	153	19675	2.3603	ng	96

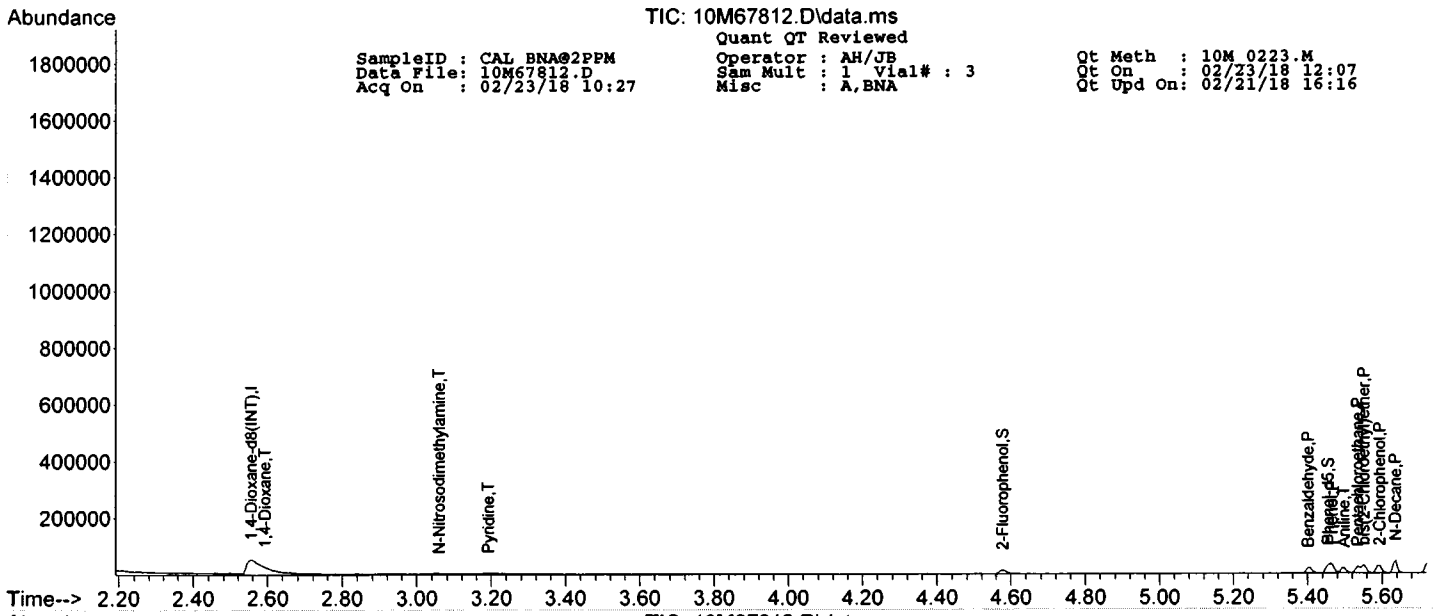
Quantitation Report (QT Reviewed)

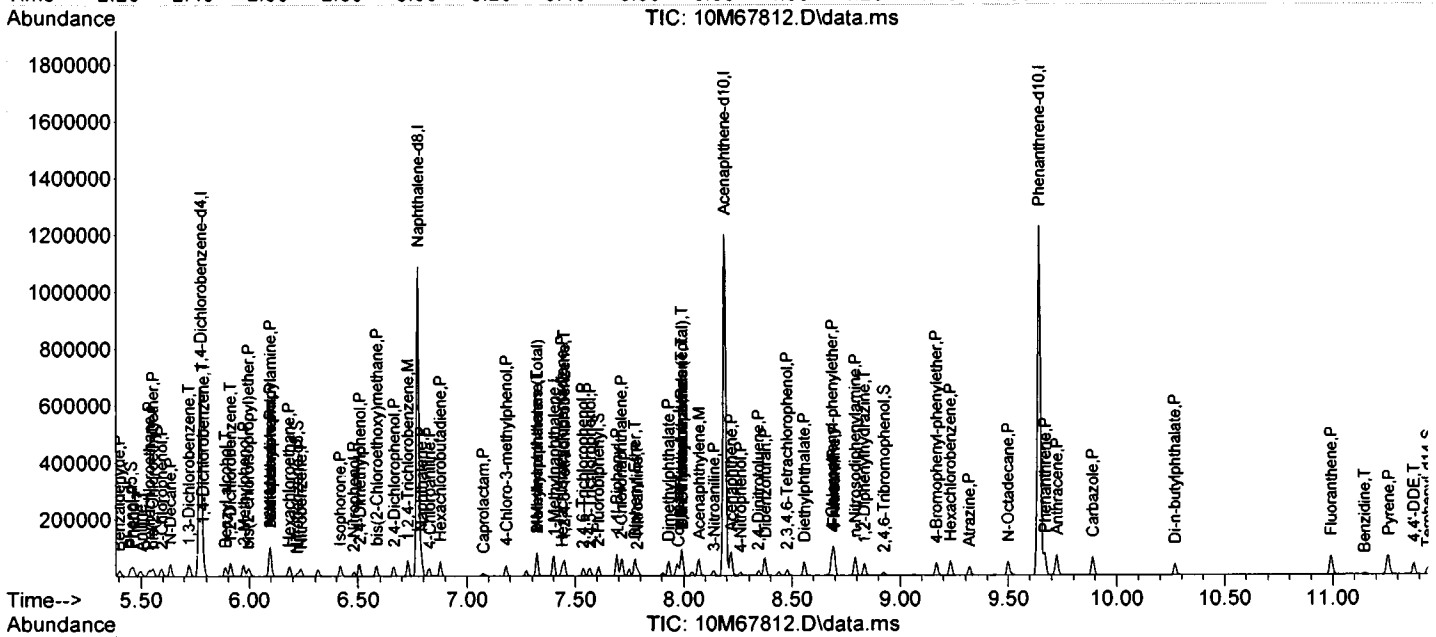
SampleID : CAL BNA@2PPM Operator : AH/JB Qt Meth : 10M_0223.M
Data File: 10M67812.D Sam Mult : 1 Vial# : 3 Qt On : 02/23/18 12:07
Acq On : 02/23/18 10:27 Misc : A,BNA Qt Upd On: 02/21/18 16:16

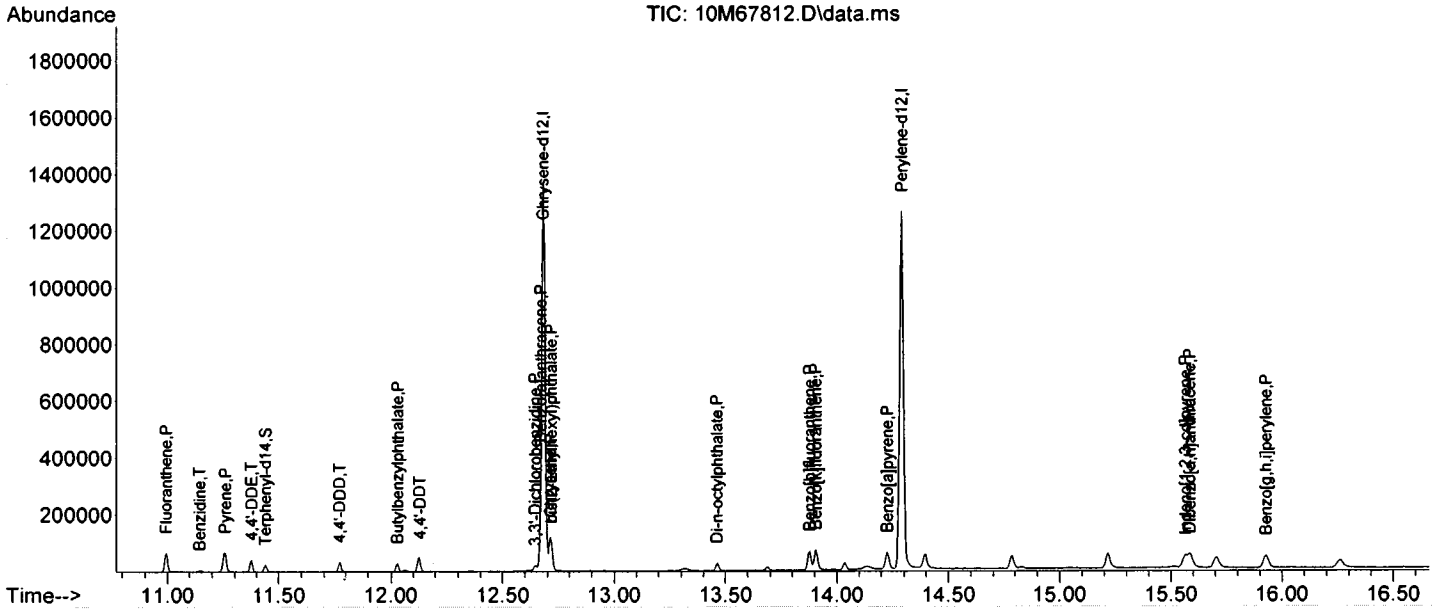
Data Path : G:\GcMsData\2018\GCMS_10\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.140	138	3048	1.3207	ng	74
67)	2,4-Dinitrophenol	0.000		0	N.D.		
68)	Dibenzofuran	8.375	168	28051	2.3065	ng	77
69)	2,4-Dinitrotoluene	8.343	165	3248	1.2352	ng	58
70)	4-Nitrophenol	8.263	65	1637	1.2567	ng	94
71)	2,3,4,6-Tetrachlorophenol	8.477	232	3461	1.2688	ng	78
72)	Fluorene	8.691	166	20879	2.2218	ng	98
73)	4-Chlorophenyl-phenyle...	8.685	204	10574	2.1479	ng	75
74)	Diethylphthalate	8.557	149	16976	1.9490	ng	95
75)	4-Nitroaniline	8.696	138	3127	1.2730	ng	67
76)	Atrazine	9.317	200	3746	1.4651	ng	99
78)	4,6-Dinitro-2-methylph...	0.000		0	N.D.		
79)	n-Nitrosodiphenylamine	8.792	169	16976	2.0353	ng	97
81)	1,2-Diphenylhydrazine	8.835	77	15434	1.8986	ng	81
82)	4-Bromophenyl-phenylether	9.167	248	6083	1.9345	ng	81
83)	Hexachlorobenzene	9.231	284	7742	2.0983	ng	57
84)	N-Octadecane	9.498	57	8346	1.9387	ng	88
85)	Pentachlorophenol	0.000		0	N.D. d		
86)	Phenanthrene	9.670	178	33476	2.3442	ng	98
87)	Anthracene	9.723	178	29970	2.0865	ng	98
88)	Carbazole	9.889	167	27052	2.0531	ng	95
89)	Di-n-butylphthalate	10.269	149	20504	1.4172	ng	95
90)	Fluoranthene	10.991	202	29699	1.9808	ng	95
92)	Pyrene	11.258	202	32188	1.9681	ng	87
93)	Benzidine	11.146	184	3002	0.5353	ng	84
95)	4,4'-DDE	11.376	246	5138	1.6602	ng	91
96)	4,4'-DDD	11.772	235	6851	1.3488	ng	94
97)	Butylbenzylphthalate	12.028	149	6843	1.1112	ng	66
98)	4,4'-DDT	12.130	235	5331	1.3338	ng	94
99)	3,3'-Dichlorobenzidine	12.643	252	5119	1.1002	ng	96
100)	Benzo[a]anthracene	12.670	228	32511	1.9845	ng	98
101)	Chrysene	12.713	228	34713	2.2682	ng	98
102)	bis(2-Ethylhexyl)phtha...	12.718	149	10223	1.2839	ng	85
104)	Di-n-octylphthalate	13.462	149	13323	0.9091	ng	98
105)	Benzo[b]fluoranthene	13.879	252	29799	1.8291	ng	92
106)	Benzo[k]fluoranthene	13.906	252	33523m	2.0837	ng	
107)	Benzo[a]pyrene	14.227	252	27798	1.7824	ng	92
108)	Indeno[1,2,3-cd]pyrene	15.564	276	34114	1.9029	ng	90
109)	Dibenzo[a,h]anthracene	15.585	278	28720	1.8890	ng	85
110)	Benzo[g,h,i]perylene	15.928	276	30020	1.9198	ng	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M67812.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@2PPM
Data File: 10M67812.D
Acq On : 02/23/18 10:27
Operator : AH/JB
Sam Mult : 1 Vial# : 3
Misc : A,BNA
Qt Meth : 10M_0223.M
Qt On : 02/23/18 12:07
Qt Upd On: 02/21/18 16:16
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->


Abundance
TIC: 10M67812.D\data.ms
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
Hexachlorobutadiene,P
Dimethylphthalate,P
Acenaphthylene,M
3-Nitroaniline,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
2,4,6-Tribromophenol,S
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->


Abundance
TIC: 10M67812.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Chrysene-d12,I
Di-n-octylphthalate,P
Perylene-d12,I
Benzo(a)pyrene,P
Benzo(g,h,i)perylene,P
Time-->

SampleID : CAL BNA@10PPM Operator : AH/JB Qt Meth : 10M_0203.M
Data File: 10M67811.D Sam Mult : 1 Vial# : 2 Qt On : 02/23/18 10:23
Acq On : 02/23/18 10:05 Misc : A,BNA Qt Upd On: 02/21/18 16:16

Data Path : G:\GcMsData\2018\GCMS_10\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.556	96	63313	40.00	ng	-0.06
21) 1,4-Dichlorobenzene-d4	5.776	152	119862	40.00	ng	-0.04
31) Naphthalene-d8	6.776	136	440301	40.00	ng	-0.05
50) Acenaphthene-d10	8.188	164	273234	40.00	ng	-0.06
77) Phenanthrene-d10	9.643	188	475990	40.00	ng	-0.06
91) Chrysene-d12	12.681	240	545223	40.00	ng	-0.07
103) Perylene-d12	14.291	264	516017	40.00	ng	-0.07
System Monitoring Compounds						
11) 2-Fluorophenol	4.578	112	30421	7.98	ng	-0.05
Spiked Amount 100.000			Recovery = 7.98%			
16) Phenol-d5	5.455	99	39244	8.46	ng	-0.04
Spiked Amount 100.000			Recovery = 8.46%			
32) Nitrobenzene-d5	6.220	128	7152	4.20	ng	-0.05
Spiked Amount 50.000			Recovery = 8.40%			
55) 2-Fluorobiphenyl	7.605	172	42542	4.45	ng	-0.05
Spiked Amount 50.000			Recovery = 8.90%			
80) 2,4,6-Tribromophenol	8.926	330	11516	7.93	ng	-0.06
Spiked Amount 100.000			Recovery = 7.93%			
94) Terphenyl-d14	11.440	244	40344	4.20	ng	-0.06
Spiked Amount 50.000			Recovery = 8.40%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.599	88	16149	9.3650	ng	59
9) Pyridine	3.118	79	41128m	8.2996	ng	
10) N-Nitrosodimethylamine	3.021	74	23477	8.7319	ng	67
12) Benzaldehyde	5.402	77	22451	10.4072	ng	71
13) Aniline	5.498	93	43805	6.6079	ng	35
14) Pentachloroethane	5.535	117	11238	7.9072	ng	79
15) bis(2-Chloroethyl)ether	5.551	93	38884	8.3884	ng	78
17) Phenol	5.466	94	49966	8.4285	ng	78
18) 2-Chlorophenol	5.594	128	39866	8.1454	ng	74
19) N-Decane	5.637	57	34937	9.3688	ng	81
20) 1,3-Dichlorobenzene	5.722	146	45511	8.3093	ng	96
22) 1,4-Dichlorobenzene	5.787	146	46724	8.9755	ng	97
23) 1,2-Dichlorobenzene	5.910	146	44288	8.9755	ng	97
24) Benzyl alcohol	5.888	108	24842	8.7448	ng	62
25) bis(2-chloroisopropyl)...	5.995	45	48862	10.7718	ng	94
26) 2-Methylphenol	5.974	108	36728	8.9579	ng	98
27) Acetophenone	6.102	105	45747	9.9083	ng	59
28) Hexachloroethane	6.182	117	15694	8.8585	ng	87
29) N-Nitroso-di-n-propyla...	6.097	70	25144	9.7900	ng	66
30) 3&4-Methylphenol	6.097	108	37601	9.0798	ng	98
33) Nitrobenzene	6.236	77	33985	9.2652	ng	74
34) Isophorone	6.418	82	67071	9.3889	ng	86
35) 2-Nitrophenol	6.482	139	16638	7.6027	ng	80
36) 2,4-Dimethylphenol	6.509	107	37623	9.2519	ng	85
37) Benzoic Acid	6.546	105	1006	0.7402	ng	73
38) bis(2-Chloroethoxy)met...	6.584	93	46863	9.7756	ng	96
39) 2,4-Dichlorophenol	6.664	162	32983	8.7719	ng	83
40) 1,2,4-Trichlorobenzene	6.728	180	38270	8.9374	ng	97
41) Naphthalene	6.792	128	125426	9.6464	ng	99
42) 4-Chloroaniline	6.830	127	37303	8.6026	ng	97
43) Hexachlorobutadiene	6.878	225	21638	8.8691	ng	96
44) Caprolactam	7.081	113	8883	7.5025	ng	57
45) 4-Chloro-3-methylphenol	7.183	107	31008	9.3158	ng	73
46) 2-Methylnaphthalene	7.322	142	86353	9.8855	ng	98
47) 1-Methylnaphthalene	7.402	142	83934	9.8256	ng	94
48) Methylnaphthalenes (To...	7.322	142	169483m	19.6595	ng	
49) 1,1'-Biphenyl	7.691	154	91766	9.3700	ng	95
51) 1,2,4,5-Tetrachloroben...	7.450	216	36239	9.0239	ng	96
52) Hexachlorocyclopentadiene	7.439	237	20416	7.8055	ng	99
53) 2,4,6-Trichlorophenol	7.536	196	22767	8.6382	ng	100
54) 2,4,5-Trichlorophenol	7.568	196	24846m	8.3577	ng	
56) 2-Chloronaphthalene	7.717	162	81408	9.6430	ng	88
57) 1,4-Dimethylnaphthalene	7.990	156	57675	9.9887	ng	84
58) Dimethylnaphthalenes (...	7.990	156	57675	9.9887	ng	84
59) Diphenyl Ether	7.776	170	53440	9.2959	ng	69
60) 2-Nitroaniline	7.792	65	18321	8.5026	ng	37
61) Coumarin	7.974	146	27697	9.5206	ng	82
62) Acenaphthylene	8.070	152	118451	9.3450	ng	99
63) Dimethylphthalate	7.931	163	85704	9.2349	ng	98
64) 2,6-Dinitrotoluene	7.990	165	17102	8.3608	ng	57
65) Acenaphthene	8.220	153	80391	9.6505	ng	96

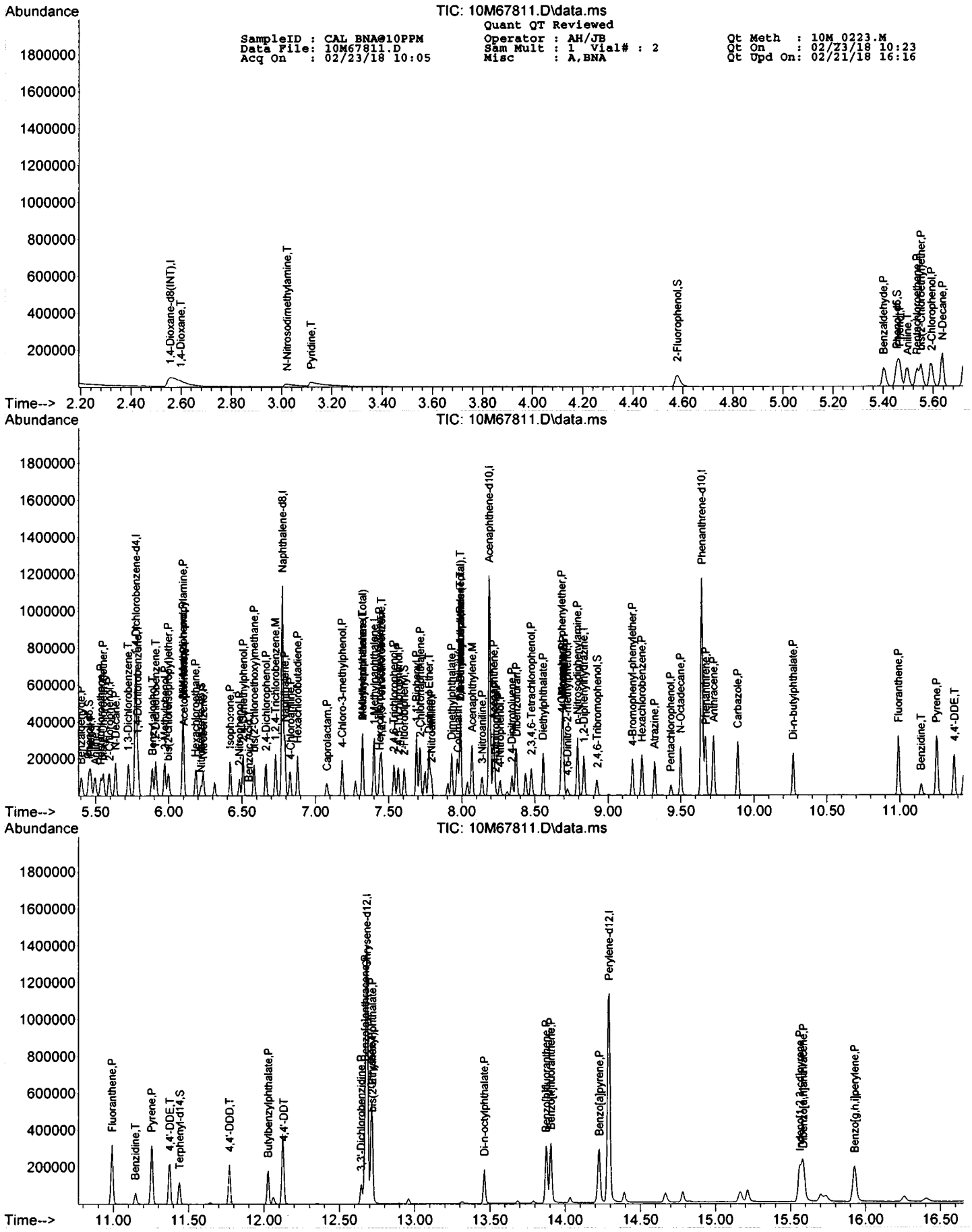
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@10PPM Operator : AH/JB Qt Meth : 10M_0223.M
Data File: 10M67811.D Sam Mult : 1 Vial# : 2 Qt On : 02/23/18 10:23
Acq On : 02/23/18 10:05 Misc : A,BNA Qt Upd On: 02/21/18 16:16

Data Path : G:\GcMsData\2018\GCMS_10\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.140	138	17413	7.5850	ng	71
67)	2,4-Dinitrophenol	8.231	184	3091	3.8317	ng	36
68)	Dibenzofuran	8.375	168	115560	9.5593	ng	76
69)	2,4-Dinitrotoluene	8.343	165	19399	7.3565	ng	56
70)	4-Nitrophenol	8.263	65	10934	8.3770	ng	92
71)	2,3,4,6-Tetrachlorophenol	8.477	232	21580	7.9162	ng	77
72)	Fluorene	8.691	166	92444	9.8437	ng	97
73)	4-Chlorophenyl-phenyle...	8.686	204	45510	9.2506	ng	76
74)	Diethylphthalate	8.557	149	78869	9.0610	ng	95
75)	4-Nitroaniline	8.696	138	19884	8.0741	ng	62
76)	Atrazine	9.317	200	21439	8.3908	ng	94
78)	4,6-Dinitro-2-methylph...	8.723	198	6348	5.2278	ng	72
79)	n-Nitrosodiphenylamine	8.793	169	78717	9.4599	ng	98
81)	1,2-Diphenylhydrazine	8.835	77	76176	9.3928	ng	78
82)	4-Bromophenyl-phenylether	9.167	248	27529	8.7756	ng	77
83)	Hexachlorobenzene	9.231	284	31771	8.6311	ng	58
84)	N-Octadecane	9.499	57	42368	9.9496	ng	77
85)	Pentachlorophenol	9.429	266	8271	4.3009	ng	95
86)	Phenanthrene	9.670	178	138430	9.7168	ng	98
87)	Anthracene	9.723	178	135788	9.4758	ng	100
88)	Carbazole	9.889	167	121446	9.2391	ng	96
89)	Di-n-butylphthalate	10.269	149	114021	7.9153	ng	96
90)	Fluoranthene	10.991	202	137335	9.1813	ng	92
92)	Pyrene	11.253	202	146548	9.2215	ng	90
93)	Benzidine	11.146	184	28225	5.2095	ng	91
95)	4,4'-DDE	11.376	246	28105	9.3457	ng	88
96)	4,4'-DDD	11.772	235	42997	8.7114	ng	94
97)	Butylbenzylphthalate	12.028	149	45006	7.5214	ng	65
98)	4,4'-DDT	12.130	235	36868	9.4931	ng	94
99)	3,3'-Dichlorobenzidine	12.644	252	26599	5.9011	ng	95
100)	Benzo[a]anthracene	12.670	228	138410	8.6948	ng	99
101)	Chrysene	12.713	228	144691	9.7685	ng	98
102)	bis(2-Ethylhexyl)phtha...	12.718	149	67241	8.6904	ng	89
104)	Di-n-octylphthalate	13.462	149	89929	6.3385	ng	100
105)	Benzo[b]fluoranthene	13.874	252	134892	8.5459	ng	94
106)	Benzo[k]fluoranthene	13.906	252	144209	9.2517	ng	93
107)	Benzo[a]pyrene	14.227	252	129191	8.5499	ng	91
108)	Indeno[1,2,3-cd]pyrene	15.564	276	150218	8.6484	ng	78
109)	Dibenzo[a,h]anthracene	15.585	278	129080	8.7628	ng	87
110)	Benzo[g,h,i]perylene	15.928	276	132010	8.7133	ng	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M67811.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@10PPM
Data File: 10M67811.D
Acq On : 02/23/18 10:05
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 10M_0223.M
Qt On : 02/23/18 10:23
Qt Upd On: 02/21/18 16:16
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Caprolactam,P
4-Chloro-3-methylphenol,P
Hexachlorobutadiene,P
Dimethylphthalate,P
Acenaphthylene,M
3-Nitroaniline,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
3,3'-Dichlorobenzidine,P
Chrysene-d12,I
Di-n-octylphthalate,P
Benzo(b)fluoranthene,P
Benzo(k)fluoranthene,P
Benzo(a)pyrene,P
Perylene-d12,I
Indeno(1,2,3-cd)pyrene,P
Dibenz(a,h)anthracene,P
Benzo(g,h,i)perylene,P

SampleID : CAL BNA@20PPM Operator : AH/JB Qt Meth : 10M_0223M
Data File: 10M67817.D Sam Mult : 1 Vial# : 8 Qt On : 02/23/18 12:58
Acq On : 02/23/18 12:17 Misc : A,BNA Qt Upd On: 02/21/18 16:16

Data Path : G:\GcMsData\2018\GCMS_10\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.556	96	61972	40.00	ng	-0.06
21) 1,4-Dichlorobenzene-d4	5.776	152	122830	40.00	ng	-0.04
31) Naphthalene-d8	6.776	136	461545	40.00	ng	-0.05
50) Acenaphthene-d10	8.193	164	285502	40.00	ng	-0.05
77) Phenanthrene-d10	9.643	188	489135	40.00	ng	-0.06
91) Chrysene-d12	12.686	240	569662	40.00	ng	-0.06
103) Perylene-d12	14.291	264	557762	40.00	ng	-0.07
System Monitoring Compounds						
11) 2-Fluorophenol	4.578	112	71687	19.21	ng	-0.05
Spiked Amount 100.000			Recovery = 19.21%			
16) Phenol-d5	5.455	99	92284	20.32	ng	-0.04
Spiked Amount 100.000			Recovery = 20.32%			
32) Nitrobenzene-d5	6.225	128	17359	9.72	ng	-0.04
Spiked Amount 50.000			Recovery = 19.44%			
55) 2-Fluorobiphenyl	7.610	172	98366	9.84	ng	-0.05
Spiked Amount 50.000			Recovery = 19.68%			
80) 2,4,6-Tribromophenol	8.926	330	30887	20.42	ng	-0.06
Spiked Amount 100.000			Recovery = 20.42%			
94) Terphenyl-d14	11.440	244	96376	9.61	ng	-0.06
Spiked Amount 50.000			Recovery = 19.22%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.593	88	32364m	19.1744	ng	
9) Pyridine	3.080	79	92994	19.1723	ng	67
10) N-Nitrosodimethylamine	3.000	74	52722	20.0335	ng	72
12) Benzaldehyde	5.401	77	53912	26.3149	ng	72
13) Aniline	5.498	93	121537	18.7978	ng	34
14) Pentachloroethane	5.535	117	25903	18.6202	ng	74
15) bis(2-Chloroethyl)ether	5.551	93	90207	19.8814	ng	79
17) Phenol	5.465	94	118440	20.4113	ng	79
18) 2-Chlorophenol	5.594	128	93487	19.5145	ng	77
19) N-Decane	5.637	57	79016	21.6477	ng	82
20) 1,3-Dichlorobenzene	5.728	146	103490	19.3038	ng	96
22) 1,4-Dichlorobenzene	5.792	146	105292	19.7374	ng	98
23) 1,2-Dichlorobenzene	5.915	146	100459	19.8673	ng	98
24) Benzyl alcohol	5.888	108	60083	20.6392	ng	64
25) bis(2-chloroisopropyl)...	6.000	45	107410	23.1066	ng	94
26) 2-Methylphenol	5.974	108	84511	20.1141	ng	95
27) Acetophenone	6.102	105	105006	22.1935	ng	66
28) Hexachloroethane	6.188	117	36072	19.8688	ng	89
29) N-Nitroso-di-n-propyla...	6.102	70	59916	22.7650	ng	63
30) 3&4-Methylphenol	6.097	108	88078	21.1660	ng	100
33) Nitrobenzene	6.236	77	83784	21.7903	ng	75
34) Isophorone	6.423	82	157174	20.9891	ng	80
35) 2-Nitrophenol	6.487	139	45052	19.5240	ng	75
36) 2,4-Dimethylphenol	6.508	107	85653	20.0935	ng	85
37) Benzoic Acid	6.562	105	14528	9.7281	ng	81
38) bis(2-Chloroethoxy)met...	6.583	93	106864	21.2658	ng	97
39) 2,4-Dichlorophenol	6.664	162	78171	19.8328	ng	85
40) 1,2,4-Trichlorobenzene	6.733	180	87103	19.4053	ng	96
41) Naphthalene	6.792	128	284365	21.0374	ng	99
42) 4-Chloroaniline	6.829	127	102325m	22.5115	ng	
43) Hexachlorobutadiene	6.883	225	49085	19.1932	ng	99
44) Caprolactam	7.086	113	25514	20.2429	ng	64
45) 4-Chloro-3-methylphenol	7.182	107	74667	21.3999	ng	78
46) 2-Methylnaphthalene	7.321	142	194561	21.2477	ng	98
47) 1-Methylnaphthalene	7.402	142	187182	20.9036	ng	94
48) Methylnaphthalenes (To...	7.321	142	379112m	41.9517	ng	
49) 1,1'-Biphenyl	7.690	154	206262	20.0916	ng	95
51) 1,2,4,5-Tetrachloroben...	7.455	216	82625	19.6904	ng	99
52) Hexachlorocyclopentadiene	7.444	237	51963	18.9314	ng	98
53) 2,4,6-Trichlorophenol	7.541	196	58660	21.3002	ng	100
54) 2,4,5-Trichlorophenol	7.567	196	62597	20.1515	ng	99
56) 2-Chloronaphthalene	7.717	162	189842	21.6712	ng	89
57) 1,4-Dimethylnaphthalene	7.995	156	127741	21.1727	ng	83
58) Dimethylnaphthalenes (...	7.995	156	127741	21.1727	ng	83
59) Diphenyl Ether	7.776	170	117885	19.6250	ng	70
60) 2-Nitroaniline	7.792	65	49637	22.0701	ng	41
61) Coumarin	7.974	146	63484	20.8844	ng	83
62) Acenaphthylene	8.070	152	274069	20.6931	ng	100
63) Dimethylphthalate	7.937	163	196987	20.3140	ng	98
64) 2,6-Dinitrotoluene	7.995	165	43150	20.4455	ng	53
65) Acenaphthene	8.220	153	182142	20.9256	ng	97

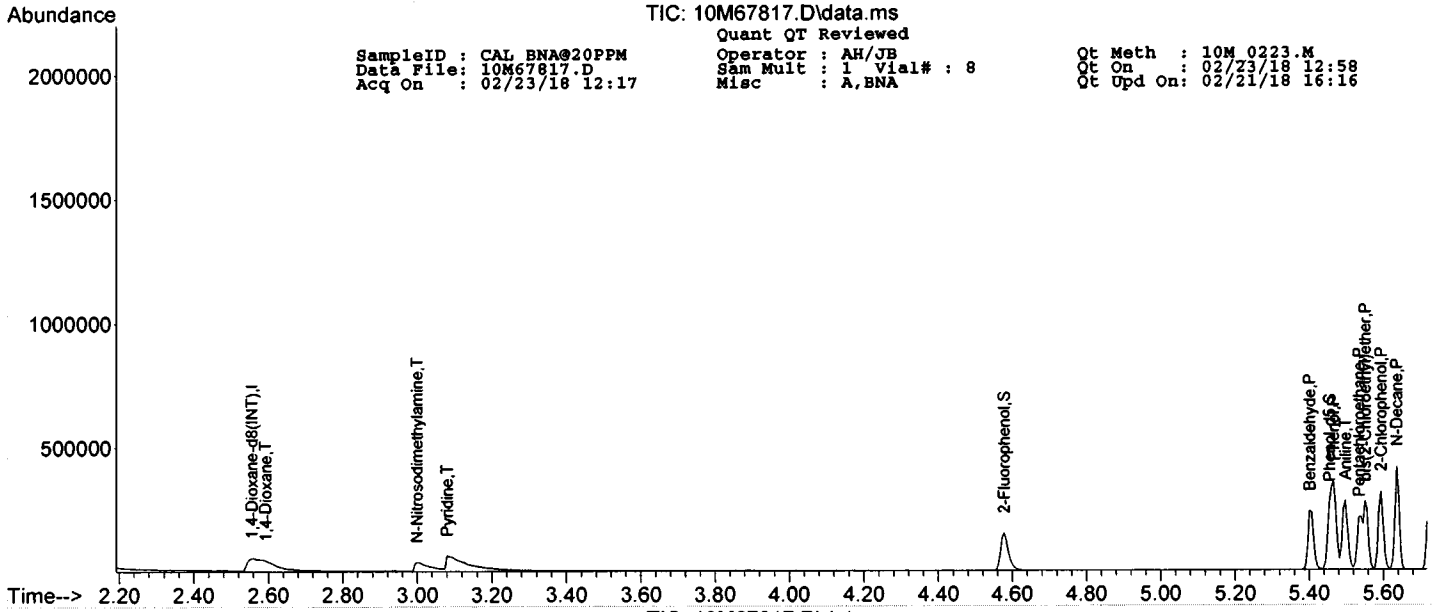
Quantitation Report (QT Reviewed)

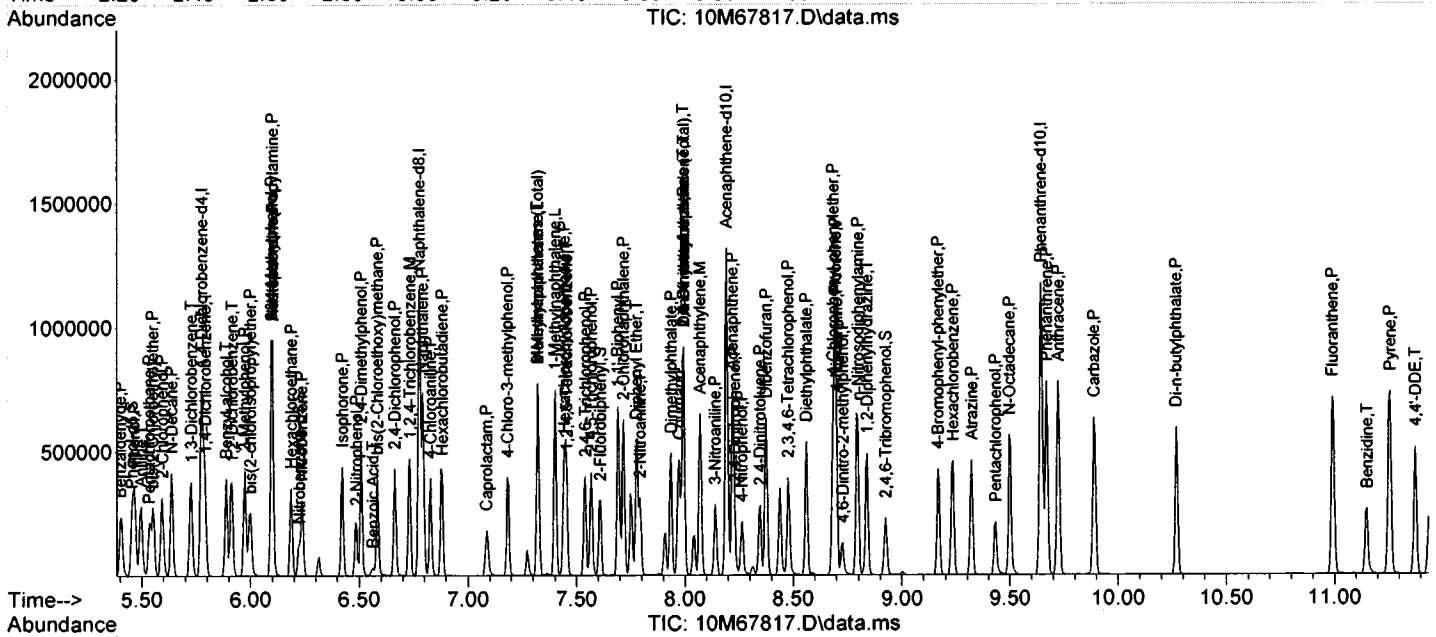
SampleID : CAL BNA@20PPM Operator : AH/JB Qt Meth : 10M_0223.M
Data File: 10M67817.D Sam Mult : 1 Vial# : 8 Qt On : 02/23/18 12:58
Acq On : 02/23/18 12:17 Misc : A,BNA Qt Upd On: 02/21/18 16:16

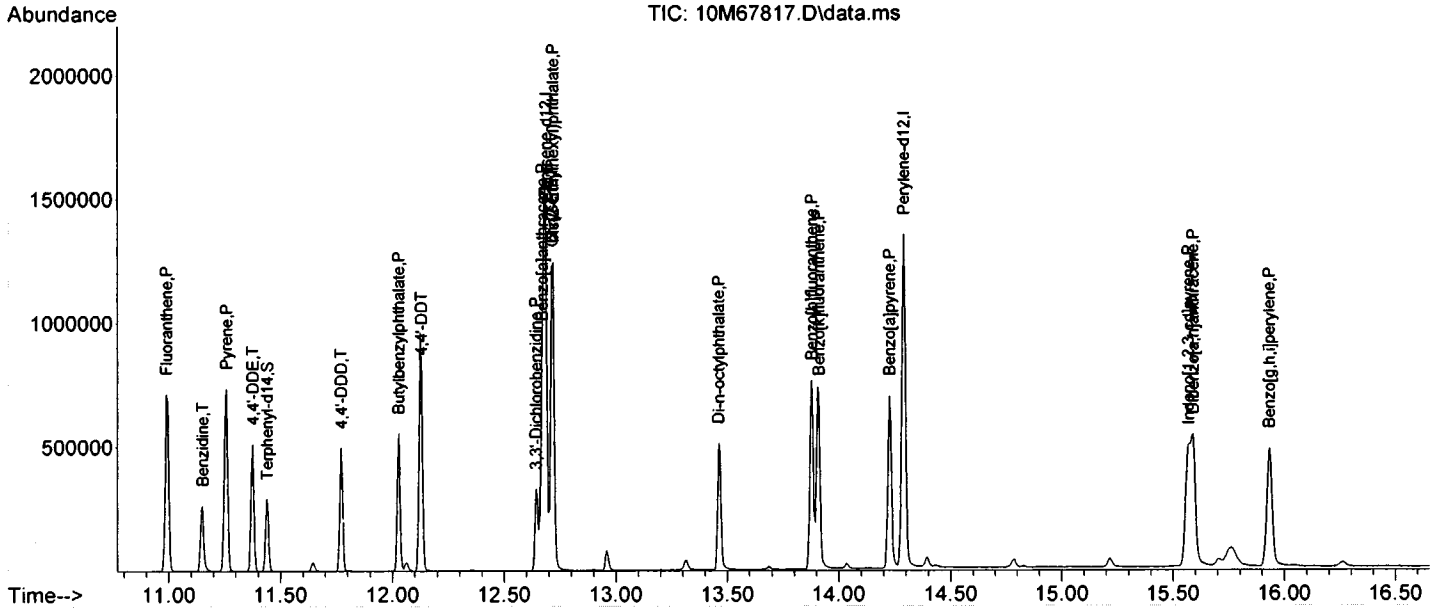
Data Path : G:\GcMsData\2018\GCMS_10\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.140	138	48284	20.3193	ng	70
67)	2,4-Dinitrophenol	8.231	184	14426	16.5746	ng	44
68)	Dibenzofuran	8.375	168	259807	20.7392	ng	78
69)	2,4-Dinitrotoluene	8.348	165	55951	20.1587	ng	51
70)	4-Nitrophenol	8.263	65	30272	22.0823	ng	98
71)	2,3,4,6-Tetrachlorophenol	8.477	232	55784	19.5840	ng	75
72)	Fluorene	8.696	166	211920	21.5962	ng	98
73)	4-Chlorophenyl-phenyle...	8.685	204	105453	20.5139	ng	76
74)	Diethylphthalate	8.562	149	186988	20.5594	ng	94
75)	4-Nitroaniline	8.701	138	54178	20.9261	ng	61
76)	Atrazine	9.322	200	53590	20.0729	ng	93
78)	4,6-Dinitro-2-methylph...	8.728	198	23762	18.5323	ng	86
79)	n-Nitrosodiphenylamine	8.798	169	180562	21.1162	ng	98
81)	1,2-Diphenylhydrazine	8.840	77	179710	21.5635	ng	73
82)	4-Bromophenyl-phenylether	9.167	248	63472	19.6896	ng	77
83)	Hexachlorobenzene	9.236	284	75633	19.9948	ng	53
84)	N-Octadecane	9.498	57	99591	23.0838	ng	78
85)	Pentachlorophenol	9.434	266	31239	15.5953	ng	98
86)	Phenanthrene	9.669	178	305376	20.8591	ng	99
87)	Anthracene	9.723	178	311513	21.1544	ng	100
88)	Carbazole	9.889	167	287983	21.3199	ng	97
89)	Di-n-butylphthalate	10.269	149	306869	20.8120	ng	97
90)	Fluoranthene	10.991	202	329399	21.4295	ng	95
92)	Pyrene	11.258	202	340842	20.5272	ng	89
93)	Benzidine	11.151	184	116614	21.0067	ng	88
95)	4,4'-DDE	11.376	246	62033	19.7427	ng	88
96)	4,4'-DDD	11.772	235	102231	19.8239	ng	93
97)	Butylbenzylphthalate	12.028	149	130494	20.8726	ng	66
98)	4,4'-DDT	12.130	235	88697	21.8588	ng	95
99)	3,3'-Dichlorobenzidine	12.643	252	84547	18.0899	ng	96
100)	Benzo[a]anthracene	12.670	228	328541	19.7532	ng	99
101)	Chrysene	12.713	228	328701	21.3719	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.718	149	183417	22.6883	ng	90
104)	Di-n-octylphthalate	13.462	149	291984	19.0768	ng	100
105)	Benzo[b]fluoranthene	13.879	252	341984m	20.0444	ng	
106)	Benzo[k]fluoranthene	13.911	252	330512m	19.6169	ng	
107)	Benzo[a]pyrene	14.227	252	328282	20.0998	ng	93
108)	Indeno[1,2,3-cd]pyrene	15.569	276	368165	19.6097	ng	79
109)	Dibenzo[a,h]anthracene	15.590	278	309080	19.4120	ng	87
110)	Benzo[g,h,i]perylene	15.933	276	317252	19.3730	ng	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M67817.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@20PPM
Data File: 10M67817.D
Acq On : 02/23/18 12:17
Operator : AH/JB
Sam Mult : 1 Vial# : 8
Misc : A,BNA
Qt Meth : 10M_0223.M
Qt On : 02/23/18 12:58
Qt Upd On: 02/21/18 16:16
2000000
1500000
1000000
500000
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->
2.20
2.40
2.60
2.80
3.00
3.20
3.40
3.60
3.80
4.00
4.20
4.40
4.60
4.80
5.00
5.20
5.40
5.60


Abundance
TIC: 10M67817.D\data.ms
2000000
1500000
1000000
500000
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthene-d10,I
Diethylphthalate,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Time-->
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00
9.50
10.00
10.50
11.00


Abundance
TIC: 10M67817.D\data.ms
2000000
1500000
1000000
500000
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Perylene-d12,I
Benzo[a]pyrene,P
Benzo[g,h,i]perylene,P
Time-->
11.00
11.50
12.00
12.50
13.00
13.50
14.00
14.50
15.00
15.50
16.00
16.50

SampleID : CAL BNA@80PPM Operator : AH/JB Qt Meth : 10M_0223.M
Data File: 10M67816.D Sam Mult : 1 Vial# : 7 Qt On : 02/23/18 12:18
Acq On : 02/23/18 11:55 Misc : A,BNA Qt Upd On: 02/23/18 12:17

Data Path : G:\GcMsData\2018\GCMS_10\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.561	96	61561	40.00	ng	-0.06
21) 1,4-Dichlorobenzene-d4	5.776	152	120226	40.00	ng	-0.04
31) Naphthalene-d8	6.776	136	446583	40.00	ng	-0.05
50) Acenaphthene-d10	8.194	164	281114	40.00	ng	-0.05
77) Phenanthrene-d10	9.643	188	488011	40.00	ng	-0.06
91) Chrysene-d12	12.692	240	555782	40.00	ng	-0.06
103) Perylene-d12	14.291	264	546765	40.00	ng	-0.07
System Monitoring Compounds						
11) 2-Fluorophenol	4.583	112	299123	80.67	ng	-0.04
Spiked Amount 100.000			Recovery = 80.67%			
16) Phenol-d5	5.460	99	367229	81.42	ng	-0.04
Spiked Amount 100.000			Recovery = 81.42%			
32) Nitrobenzene-d5	6.225	128	78881	45.63	ng	-0.04
Spiked Amount 50.000			Recovery = 91.26%			
55) 2-Fluorobiphenyl	7.611	172	394015	40.03	ng	-0.05
Spiked Amount 50.000			Recovery = 80.06%			
80) 2,4,6-Tribromophenol	8.926	330	143393	88.41	ng	-0.06
Spiked Amount 100.000			Recovery = 88.41%			
94) Terphenyl-d14	11.440	244	405884	41.49	ng	-0.06
Spiked Amount 50.000			Recovery = 82.98%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.593	88	128177m	76.4470	ng	
9) Pyridine	3.059	79	387768	80.4787	ng	67
10) N-Nitrosodimethylamine	2.989	74	220538	84.3603	ng	69
12) Benzaldehyde	5.407	77	163854	86.4128	ng	70
13) Aniline	5.498	93	491059	77.8147	ng	34
14) Pentachloroethane	5.535	117	104272	75.4556	ng	74
15) bis(2-Chloroethyl)ether	5.557	93	338545	75.1127	ng	76
17) Phenol	5.471	94	458520	79.5463	ng	79
18) 2-Chlorophenol	5.594	128	370476	77.8496	ng	77
19) N-Decane	5.637	57	300442m	82.8604	ng	
20) 1,3-Dichlorobenzene	5.728	146	404263	75.9100	ng	97
22) 1,4-Dichlorobenzene	5.792	146	406983	77.9429	ng	97
23) 1,2-Dichlorobenzene	5.915	146	389888	78.7763	ng	98
24) Benzyl alcohol	5.888	108	241817	84.8662	ng	66
25) bis(2-chloroisopropyl)...	6.001	45	409086	89.9110	ng	96
26) 2-Methylphenol	5.979	108	331041	80.4960	ng	97
27) Acetophenone	6.108	105	373057	80.5553	ng	65
28) Hexachloroethane	6.188	117	145266	81.7469	ng	90
29) N-Nitroso-di-n-propyla...	6.108	70	211859	82.2390	ng	64
30) 3&4-Methylphenol	6.102	108	313883	86.2674	ng	100
33) Nitrobenzene	6.241	77	333980	89.7706	ng	71
34) Isophorone	6.423	82	622694	85.9409	ng	83
35) 2-Nitrophenol	6.487	139	198452	86.0702	ng	75
36) 2,4-Dimethylphenol	6.509	107	342045	82.9293	ng	90
37) Benzoic Acid	6.600	105	196463	94.7225	ng	82
38) bis(2-Chloroethoxy)met...	6.589	93	409176	84.1536	ng	96
39) 2,4-Dichlorophenol	6.664	162	315702	82.7802	ng	87
40) 1,2,4-Trichlorobenzene	6.733	180	342407	78.8390	ng	97
41) Naphthalene	6.798	128	1061777	85.1779	ng	100
42) 4-Chloroaniline	6.830	127	391438m	89.0014	ng	
43) Hexachlorobutadiene	6.878	225	196843	79.5481	ng	97
44) Caprolactam	7.113	113	109456	83.4286	ng	61
45) 4-Chloro-3-methylphenol	7.188	107	296099	87.7067	ng	76
46) 2-Methylnaphthalene	7.322	142	705848	79.6670	ng	100
47) 1-Methylnaphthalene	7.402	142	705189	81.3908	ng	94
48) Methylnaphthalenes (To...	7.402	142	1405106m	160.6951	ng	
49) 1,1'-Biphenyl	7.696	154	790414	79.5723	ng	94
51) 1,2,4,5-Tetrachloroben...	7.455	216	322661	78.0938	ng	99
52) Hexachlorocyclopentadiene	7.445	237	232669	83.9831	ng	98
53) 2,4,6-Trichlorophenol	7.541	196	239031	88.1501	ng	99
54) 2,4,5-Trichlorophenol	7.573	196	261063	85.3545	ng	99
56) 2-Chloronaphthalene	7.717	162	688835	82.7964	ng	90
57) 1,4-Dimethylnaphthalene	7.996	156	468281	78.8277	ng	86
58) Dimethylnaphthalenes (...	7.996	156	468281	78.8277	ng	86
59) Diphenyl Ether	7.776	170	460819	77.9126	ng	73
60) 2-Nitroaniline	7.798	65	207069	94.0435	ng	30
61) Coumarin	7.985	146	249556	83.3782	ng	83
62) Acenaphthylene	8.076	152	1041720	79.8810	ng	99
63) Dimethylphthalate	7.942	163	772756	80.9334	ng	98
64) 2,6-Dinitrotoluene	7.996	165	170481	88.3580	ng	58
65) Acenaphthene	8.226	153	672271	78.4404	ng	97

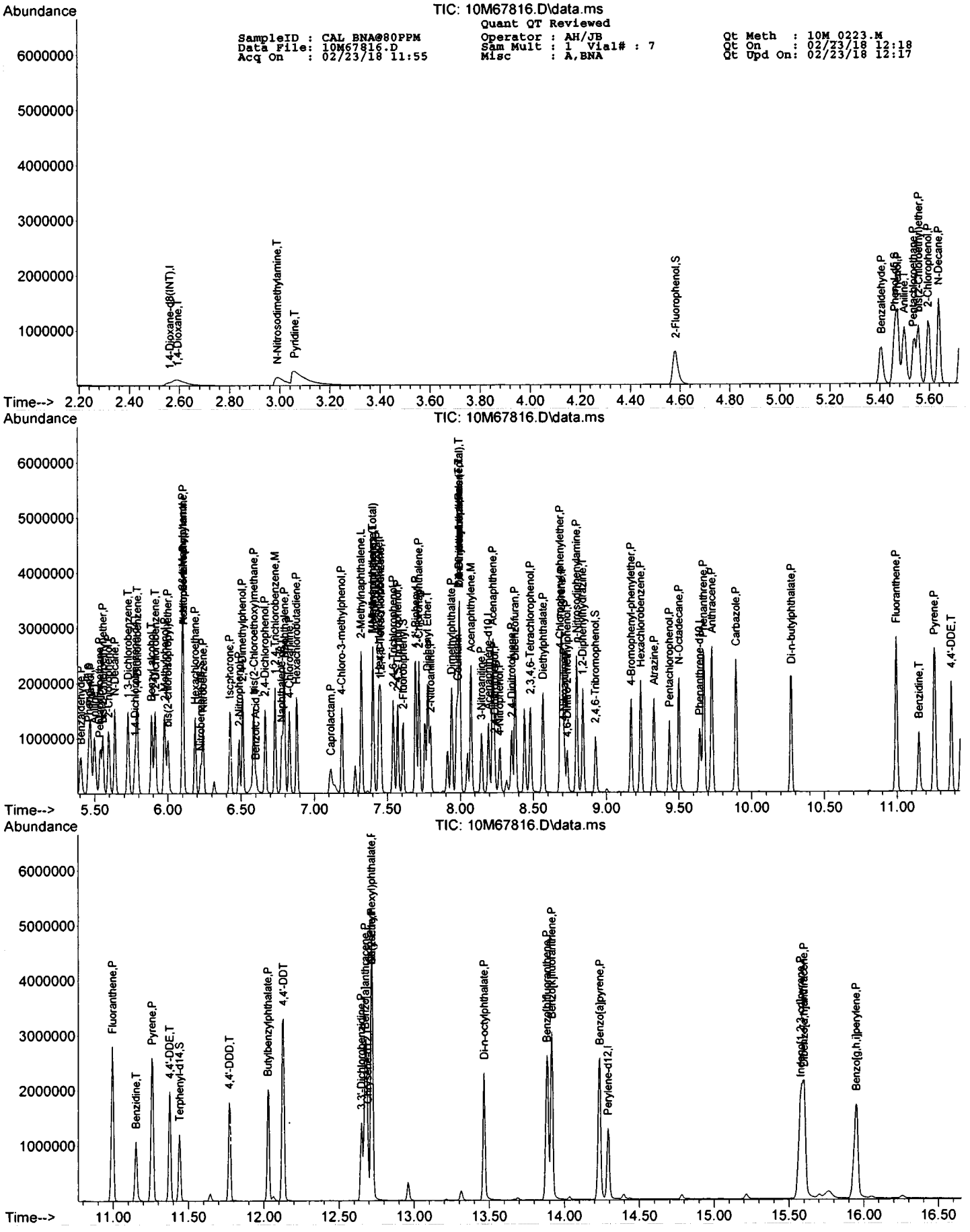
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@80PPM Operator : AH/JB Qt Meth : 10M_0223.M
Data File: 10M67816.D Sam Mult : 1 Vial# : 7 Qt On : 02/23/18 12:18
Acq On : 02/23/18 11:55 Misc : A,BNA Qt Upd On: 02/23/18 12:17

Data Path : G:\GcMsData\2018\GCMS_10\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.145	138	197964	89.1802	ng	70
67)	2,4-Dinitrophenol	8.236	184	97507	95.2323	ng	27
68)	Dibenzofuran	8.375	168	989593	84.2039	ng	82
69)	2,4-Dinitrotoluene	8.354	165	243508	85.9049	ng	51
70)	4-Nitrophenol	8.268	65	132738	95.7043	ng	96
71)	2,3,4,6-Tetrachlorophenol	8.482	232	232182	82.7843	ng	78
72)	Fluorene	8.696	166	767987	79.4853	ng	100
73)	4-Chlorophenyl-phenyle...	8.686	204	403965	79.8106	ng	76
74)	Diethylphthalate	8.568	149	737525	82.3567	ng	94
75)	4-Nitroaniline	8.712	138	228941	87.0810	ng	63
76)	Atrazine	9.327	200	225456	85.7660	ng	93
78)	4,6-Dinitro-2-methylph...	8.734	198	135793	92.3991	ng	84
79)	n-Nitrosodiphenylamine	8.798	169	685821	80.3894	ng	100
81)	1,2-Diphenylhydrazine	8.841	77	682584	82.0921	ng	76
82)	4-Bromophenyl-phenylether	9.172	248	263897	82.0519	ng	73
83)	Hexachlorobenzene	9.236	284	310568	82.2928	ng	55
84)	N-Octadecane	9.504	57	384489	97.1357	ng	72
85)	Pentachlorophenol	9.434	266	177564	82.3202	ng	96
86)	Phenanthrene	9.670	178	1149380	78.6909	ng	99
87)	Anthracene	9.729	178	1183073	80.5257	ng	99
88)	Carbazole	9.894	167	1125397	83.5069	ng	97
89)	Di-n-butylphthalate	10.274	149	1230733	85.3453	ng	96
90)	Fluoranthene	10.996	202	1274829	83.1269	ng	93
92)	Pyrene	11.258	202	1305646	80.5964	ng	90
93)	Benzidine	11.151	184	479762	98.0172	ng	88
95)	4,4'-DDE	11.376	246	246699	80.4754	ng	88
96)	4,4'-DDD	11.772	235	421454	83.7663	ng	93
97)	Butylbenzylphthalate	12.028	149	550364	90.2296	ng	69
98)	4,4'-DDT	12.130	235	361739	91.3744	ng	94
99)	3,3'-Dichlorobenzidine	12.649	252	370431	84.7919	ng	96
100)	Benzo[a]anthracene	12.676	228	1310250	80.7450	ng	99
101)	Chrysene	12.718	228	1224592	84.4757	ng	100
102)	bis(2-Ethylhexyl)phtha...	12.718	149	723590	91.7417	ng	88
104)	Di-n-octylphthalate	13.467	149	1262603	85.0059	ng	100
105)	Benzo[b]fluoranthene	13.884	252	1341060	80.1834	ng	94
106)	Benzo[k]fluoranthene	13.917	252	1349640	81.7162	ng	92
107)	Benzo[a]pyrene	14.237	252	1338289	83.5877	ng	91
108)	Indeno[1,2,3-cd]pyrene	15.580	276	1527415	82.9916	ng	79
109)	Dibenzo[a,h]anthracene	15.601	278	1296792	83.0841	ng	87
110)	Benzo[g,h,i]perylene	15.949	276	1316947	82.0367	ng	74

(#) = qualifier out of range (m) = manual integration (+) = signals summed


TIC: 10M67816.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@80PPM
Data File: 10M67816.D
Acq On : 02/23/18 11:55
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA
Qt Meth : 10M_0223.M
Qt On : 02/23/18 12:18
Qt Upd On: 02/23/18 12:17
Abundance
Time-->

Quantitation Report (QT Reviewed)

SampleID : CAL BNA@120PPM Operator : AH/JB Qt Meth : 10M_0223.M
Data File: 10M67815.D Sam Mult : 1 Vial# : 6 Qt On : 02/23/18 12:18
Acq On : 02/23/18 11:33 Misc : A,BNA Qt Upd On: 02/23/18 12:17

Data Path : G:\GcMsData\2018\GCMS_10\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.556	96	59902	40.00	ng	-0.06
21) 1,4-Dichlorobenzene-d4	5.776	152	116516	40.00	ng	-0.04
31) Naphthalene-d8	6.781	136	449752	40.00	ng	-0.04
50) Acenaphthene-d10	8.193	164	282460	40.00	ng	-0.05
77) Phenanthrene-d10	9.648	188	479797	40.00	ng	-0.05
91) Chrysene-d12	12.692	240	543505	40.00	ng	-0.06
103) Perylene-d12	14.296	264	544504	40.00	ng	-0.07
System Monitoring Compounds						
11) 2-Fluorophenol	4.583	112	418730	116.06	ng	-0.04
Spiked Amount 100.000			Recovery = 116.06%			
16) Phenol-d5	5.460	99	511709	116.59	ng	-0.04
Spiked Amount 100.000			Recovery = 116.59%			
32) Nitrobenzene-d5	6.225	128	111612	64.11	ng	-0.04
Spiked Amount 50.000			Recovery = 128.22%			
55) 2-Fluorobiphenyl	7.610	172	556461	56.27	ng	-0.05
Spiked Amount 50.000			Recovery = 112.54%			
80) 2,4,6-Tribromophenol	8.932	330	207817	125.55	ng	-0.05
Spiked Amount 100.000			Recovery = 125.55%			
94) Terphenyl-d14	11.445	244	570180	59.61	ng	-0.06
Spiked Amount 50.000			Recovery = 119.22%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.593	88	176864m	108.4062	ng	
9) Pyridine	3.053	79	540879	115.3649	ng	66
10) N-Nitrosodimethylamine	2.989	74	308608	121.3182	ng	68
12) Benzaldehyde	5.407	77	198910	107.8057	ng	68
13) Aniline	5.498	93	678287	111.5937	ng	63
14) Pentachloroethane	5.541	117	146479	108.9340	ng	75
15) bis(2-Chloroethyl)ether	5.557	93	468940	106.9248	ng	77
17) Phenol	5.476	94	626828	111.7569	ng	78
18) 2-Chlorophenol	5.599	128	518324	111.9340	ng	75
19) N-Decane	5.637	57	394270	111.7492	ng	80
20) 1,3-Dichlorobenzene	5.728	146	545956	105.3554	ng	96
22) 1,4-Dichlorobenzene	5.792	146	559912	110.6453	ng	97
23) 1,2-Dichlorobenzene	5.915	146	535875	111.7203	ng	98
24) Benzyl alcohol	5.894	108	337081	122.0661	ng	65
25) bis(2-chloroisopropyl)...	6.000	45	550570	124.8601	ng	97
26) 2-Methylphenol	5.979	108	465761	116.8607	ng	97
27) Acetophenone	6.107	105	479339	106.8007	ng	71
28) Hexachloroethane	6.188	117	202363	117.5036	ng	89
29) N-Nitroso-di-n-propyla...	6.107	70	278509	111.5534	ng	65
30) 3&4-Methylphenol	6.102	108	403862	122.7465	ng	98
33) Nitrobenzene	6.241	77	461041	123.0501	ng	72
34) Isophorone	6.428	82	856533	117.3812	ng	79
35) 2-Nitrophenol	6.487	139	280450	118.9183	ng	77
36) 2,4-Dimethylphenol	6.514	107	470301	113.2218	ng	88
37) Benzoic Acid	6.616	105	306026	130.0889	ng	81
38) bis(2-Chloroethoxy)met...	6.589	93	543864	111.0662	ng	96
39) 2,4-Dichlorophenol	6.669	162	440739	114.7519	ng	84
40) 1,2,4-Trichlorobenzene	6.733	180	470734	107.6224	ng	97
41) Naphthalene	6.797	128	1436143	117.2886	ng	99
42) 4-Chloroaniline	6.830	127	481737m	108.7609	ng	
43) Hexachlorobutadiene	6.883	225	270922	108.7134	ng	97
44) Caprolactam	7.124	113	168622	122.3162	ng	62
45) 4-Chloro-3-methylphenol	7.193	107	410441	120.7190	ng	73
46) 2-Methylnaphthalene	7.327	142	966842	108.3558	ng	100
47) 1-Methylnaphthalene	7.402	142	932522	106.8705	ng	93
48) Methylnaphthalenes (To...	7.327	142	1889755m	214.5992	ng	
49) 1,1'-Biphenyl	7.696	154	1070169	106.9766	ng	94
51) 1,2,4,5-Tetrachloroben...	7.455	216	446741	107.6097	ng	99
52) Hexachlorocyclopentadiene	7.445	237	326647	115.9486	ng	98
53) 2,4,6-Trichlorophenol	7.541	196	331719	121.7487	ng	99
54) 2,4,5-Trichlorophenol	7.573	196	366403m	119.2246	ng	
56) 2-Chloronaphthalene	7.723	162	938667	114.4685	ng	90
57) 1,4-Dimethylnaphthalene	8.001	156	611734	102.4850	ng	86
58) Dimethylnaphthalenes (...	8.001	156	611734	102.4850	ng	86
59) Diphenyl Ether	7.782	170	638487	107.4373	ng	68
60) 2-Nitroaniline	7.798	65	284938	129.1543	ng	37
61) Coumarin	7.990	146	327544	108.9130	ng	84
62) Acenaphthylene	8.076	152	1437837	109.7306	ng	99
63) Dimethylphthalate	7.947	163	1057149	110.1912	ng	98
64) 2,6-Dinitrotoluene	8.001	165	225065	120.4820	ng	55
65) Acenaphthene	8.226	153	912791	105.9967	ng	97

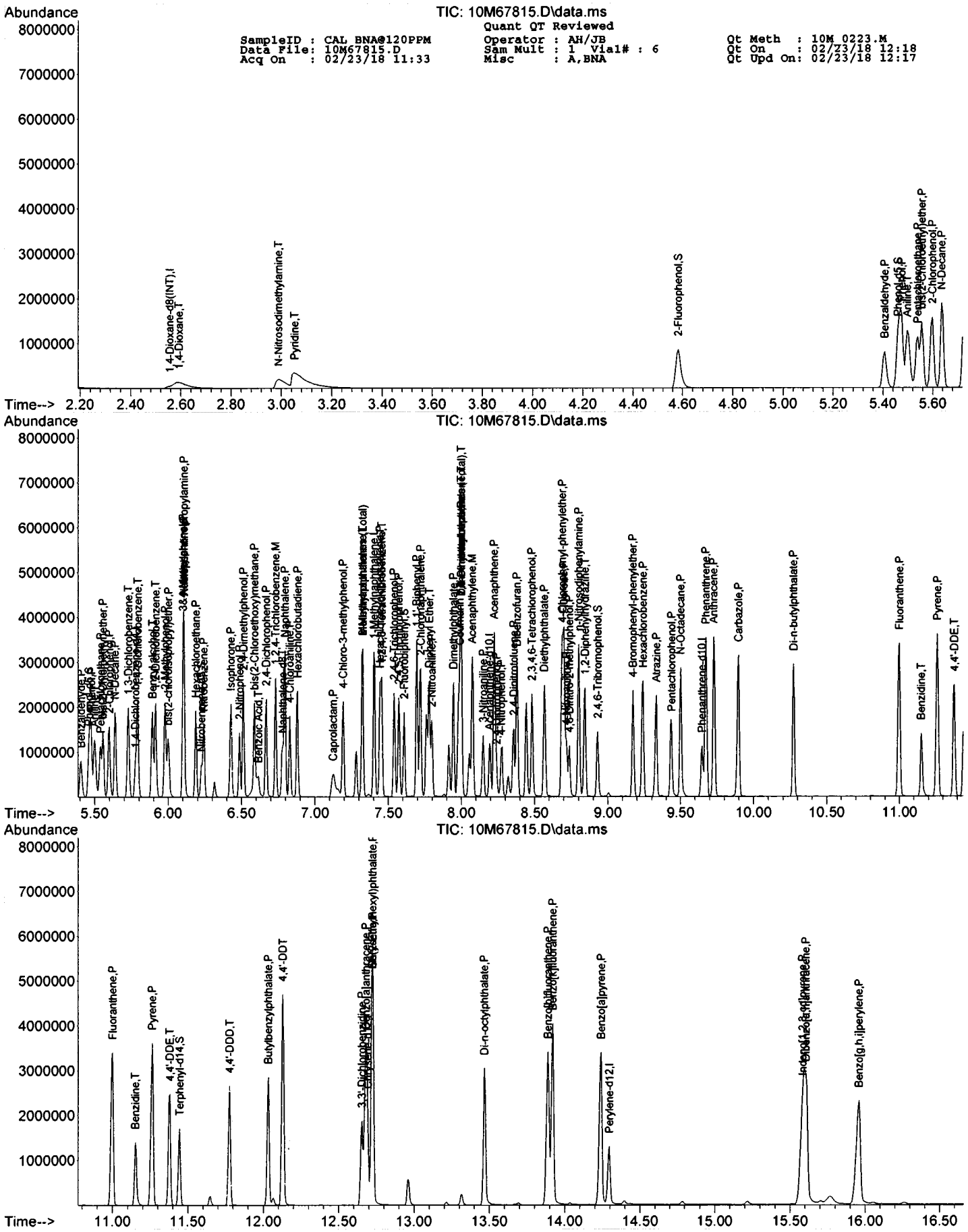
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@120PPM Operator : AH/JB Qt Meth : 10M_0223.M
Data File: 10M67815.D Sam Mult : 1 Vial# : 6 Qt On : 02/23/18 12:18
Acq On : 02/23/18 11:33 Misc : A,BNA Qt Upd On: 02/23/18 12:17

Data Path : G:\GcMsData\2018\GCMS_10\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.151	138	259467	119.1283	ng	68
67)	2,4-Dinitrophenol	8.242	184	143186	129.8604	ng	23
68)	Dibenzofuran	8.381	168	1334964	115.9211	ng	82
69)	2,4-Dinitrotoluene	8.359	165	347840	119.9008	ng	50
70)	4-Nitrophenol	8.274	65	180942	128.3151	ng	96
71)	2,3,4,6-Tetrachlorophenol	8.482	232	330155	117.1556	ng	79
72)	Fluorene	8.702	166	1040561	107.1830	ng	100
73)	4-Chlorophenyl-phenyle...	8.691	204	567973	111.6786	ng	74
74)	Diethylphthalate	8.568	149	1034626	114.9824	ng	94
75)	4-Nitroaniline	8.718	138	323340	120.5490	ng	64
76)	Atrazine	9.333	200	317991	120.3909	ng	93
78)	4,6-Dinitro-2-methylph...	8.739	198	202328	131.1237	ng	82
79)	n-Nitrosodiphenylamine	8.803	169	941739	112.2770	ng	99
81)	1,2-Diphenylhydrazine	8.846	77	939112	114.8774	ng	68
82)	4-Bromophenyl-phenylether	9.172	248	375917	118.8826	ng	75
83)	Hexachlorobenzene	9.242	284	438163	118.0900	ng	52
84)	N-Octadecane	9.504	57	502118	135.0767	ng	71
85)	Pentachlorophenol	9.440	266	267158	120.8496	ng	97
86)	Phenanthrene	9.675	178	1547433	107.7568	ng	99
87)	Anthracene	9.729	178	1628359	112.7314	ng	98
88)	Carbazole	9.900	167	1501122	113.2934	ng	97
89)	Di-n-butylphthalate	10.274	149	1659789	118.2842	ng	97
90)	Fluoranthene	11.001	202	1693610	112.3247	ng	90
92)	Pyrene	11.264	202	1761588	111.1976	ng	88
93)	Benzidine	11.151	184	608723	133.7942	ng	88
95)	4,4'-DDE	11.381	246	351403	117.2202	ng	86
96)	4,4'-DDD	11.777	235	595782	121.0898	ng	93
97)	Butylbenzylphthalate	12.034	149	772851	129.5674	ng	65
98)	4,4'-DDT	12.130	235	501976	129.6622	ng	93
99)	3,3'-Dichlorobenzidine	12.654	252	479006	114.3373	ng	95
100)	Benzo[a]anthracene	12.681	228	1773199	111.7429	ng	99
101)	Chrysene	12.724	228	1619316	116.2862	ng	100
102)	bis(2-Ethylhexyl)phtha...	12.724	149	946881	122.7639	ng	85
104)	Di-n-octylphthalate	13.467	149	1756421	119.3758	ng	100
105)	Benzo[b]fluoranthene	13.890	252	1872066	112.3975	ng	93
106)	Benzo[k]fluoranthene	13.922	252	1807230	109.8762	ng	92
107)	Benzo[a]pyrene	14.243	252	1844599	115.6895	ng	90
108)	Indeno[1,2,3-cd]pyrene	15.585	276	2154820	117.5677	ng	79
109)	Dibenzo[a,h]anthracene	15.607	278	1800573	115.8398	ng	87
110)	Benzo[g,h,i]perylene	15.960	276	1855575	116.0694	ng	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M67815.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@120PPM
Data File: 10M67815.D
Acq On : 02/23/18 11:33
Operator : AH/JB
Sam Mult : 1 Vial# : 6
Misc : A,BNA
Qt Meth : 10M 0223.M
Qt On : 02/23/18 12:18
Qt Upd On: 02/23/18 12:17
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time--> 2.20 2.40 2.60 2.80 3.00 3.20 3.40 3.60 3.80 4.00 4.20 4.40 4.60 4.80 5.00 5.20 5.40 5.60
Abundance
TIC: 10M67815.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Acenaphthene,P
Diethylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Time--> 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00
Abundance
TIC: 10M67815.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time--> 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50 15.00 15.50 16.00 16.50

SampleID : CAL BNA@160PPM Operator : AH/JB Qt Meth : 10M_02[illegible]
Data File: 10M67814.D Sam Mult : 1 Vial# : 5 Qt On : 02/23/18 12:18
Acq On : 02/23/18 11:11 Misc : A,BNA Qt Upd On: 02/23/18 12:17

Data Path : G:\GcMsData\2018\GCMS_10\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.551	96	61836	40.00	ng	-0.07
21) 1,4-Dichlorobenzene-d4	5.776	152	124794	40.00	ng	-0.04
31) Naphthalene-d8	6.781	136	483066	40.00	ng	-0.04
50) Acenaphthene-d10	8.199	164	300607	40.00	ng	-0.05
77) Phenanthrene-d10	9.648	188	523392	40.00	ng	-0.05
91) Chrysene-d12	12.697	240	571791	40.00	ng	-0.05
103) Perylene-d12	14.296	264	589665	40.00	ng	-0.07
System Monitoring Compounds						
11) 2-Fluorophenol	4.583	112	583842	156.76	ng	-0.04
Spiked Amount 100.000			Recovery = 156.76%			
16) Phenol-d5	5.466	99	676663	149.36	ng	-0.03
Spiked Amount 100.000			Recovery = 149.36%			
32) Nitrobenzene-d5	6.230	128	155776	83.30	ng	-0.04
Spiked Amount 50.000			Recovery = 166.60%			
55) 2-Fluorobiphenyl	7.610	172	756697	71.89	ng	-0.05
Spiked Amount 50.000			Recovery = 143.78%			
80) 2,4,6-Tribromophenol	8.937	330	295249	158.39	ng	-0.05
Spiked Amount 100.000			Recovery = 158.39%			
94) Terphenyl-d14	11.445	244	780579	77.56	ng	-0.06
Spiked Amount 50.000			Recovery = 155.12%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.588	88	243855m	144.7926	ng	
9) Pyridine	3.043	79	777512	160.6499	ng	68
10) N-Nitrosodimethylamine	2.984	74	435179	165.7245	ng	69
12) Benzaldehyde	5.407	77	240914	126.4874	ng	69
13) Aniline	5.503	93	913797	147.2326	ng	62
14) Pentachloroethane	5.540	117	195818	141.0719	ng	74
15) bis(2-Chloroethyl)ether	5.562	93	615908	136.0432	ng	76
17) Phenol	5.476	94	823237	142.1841	ng	81
18) 2-Chlorophenol	5.599	128	699515	146.3381	ng	75
19) N-Decane	5.637	57	517107m	141.9813	ng	
20) 1,3-Dichlorobenzene	5.728	146	744497	139.1753	ng	97
22) 1,4-Dichlorobenzene	5.792	146	761346	140.4712	ng	97
23) 1,2-Dichlorobenzene	5.915	146	721851	140.5103	ng	98
24) Benzyl alcohol	5.893	108	465685	157.4509	ng	66
25) bis(2-chloroisopropyl)...	6.000	45	748001	158.3818	ng	97
26) 2-Methylphenol	5.979	108	623644	146.0946	ng	97
27) Acetophenone	6.107	105	596055	123.9966	ng	77
28) Hexachloroethane	6.188	117	274427	148.7781	ng	89
29) N-Nitroso-di-n-propyla...	6.113	70	361059	135.0248	ng	65
30) 3&4-Methylphenol	6.107	108	492562	146.6763	ng	98
33) Nitrobenzene	6.246	77	626089	155.5770	ng	68
34) Isophorone	6.434	82	1196016	152.6012	ng	76
35) 2-Nitrophenol	6.487	139	381259	148.4610	ng	77
36) 2,4-Dimethylphenol	6.514	107	622577	139.5448	ng	90
37) Benzoic Acid	6.626	105	441008	159.6097	ng	81
38) bis(2-Chloroethoxy)met...	6.589	93	722850	137.4379	ng	95
39) 2,4-Dichlorophenol	6.669	162	589211	142.8288	ng	86
40) 1,2,4-Trichlorobenzene	6.733	180	633173	134.7772	ng	97
41) Naphthalene	6.797	128	1896404	147.7357	ng	99
42) 4-Chloroaniline	6.829	127	578189m	121.5344	ng	
43) Hexachlorobutadiene	6.883	225	377728	141.1187	ng	97
44) Caprolactam	7.145	113	233998	153.0134	ng	60
45) 4-Chloro-3-methylphenol	7.198	107	567546	155.4149	ng	71
46) 2-Methylnaphthalene	7.327	142	1246175	130.0296	ng	100
47) 1-Methylnaphthalene	7.327	142	1242583	132.5840	ng	95
48) Methylnaphthalenes (To...	7.327	142	2453248m	259.3765	ng	
49) 1,1'-Biphenyl	7.696	154	1429426	133.0346	ng	94
51) 1,2,4,5-Tetrachloroben...	7.455	216	614379	139.0560	ng	98
52) Hexachlorocyclopentadiene	7.444	237	459686	151.3317	ng	97
53) 2,4,6-Trichlorophenol	7.546	196	471750	162.6911	ng	100
54) 2,4,5-Trichlorophenol	7.578	196	502590	153.6662	ng	99
56) 2-Chloronaphthalene	7.723	162	1281978	150.1858	ng	90
57) 1,4-Dimethylnaphthalene	8.001	156	787540	123.9733	ng	88
58) Dimethylnaphthalenes (...	8.001	156	787540	123.9733	ng	88
59) Diphenyl Ether	7.781	170	857359	135.5575	ng	70
60) 2-Nitroaniline	7.803	65	386191	164.9549	ng	28
61) Coumarin	7.995	146	414623	129.5452	ng	85
62) Acenaphthylene	8.081	152	1894797	135.8747	ng	98
63) Dimethylphthalate	7.953	163	1446436	141.6668	ng	98
64) 2,6-Dinitrotoluene	8.006	165	302170	159.2629	ng	52
65) Acenaphthene	8.231	153	1204357	131.4117	ng	97

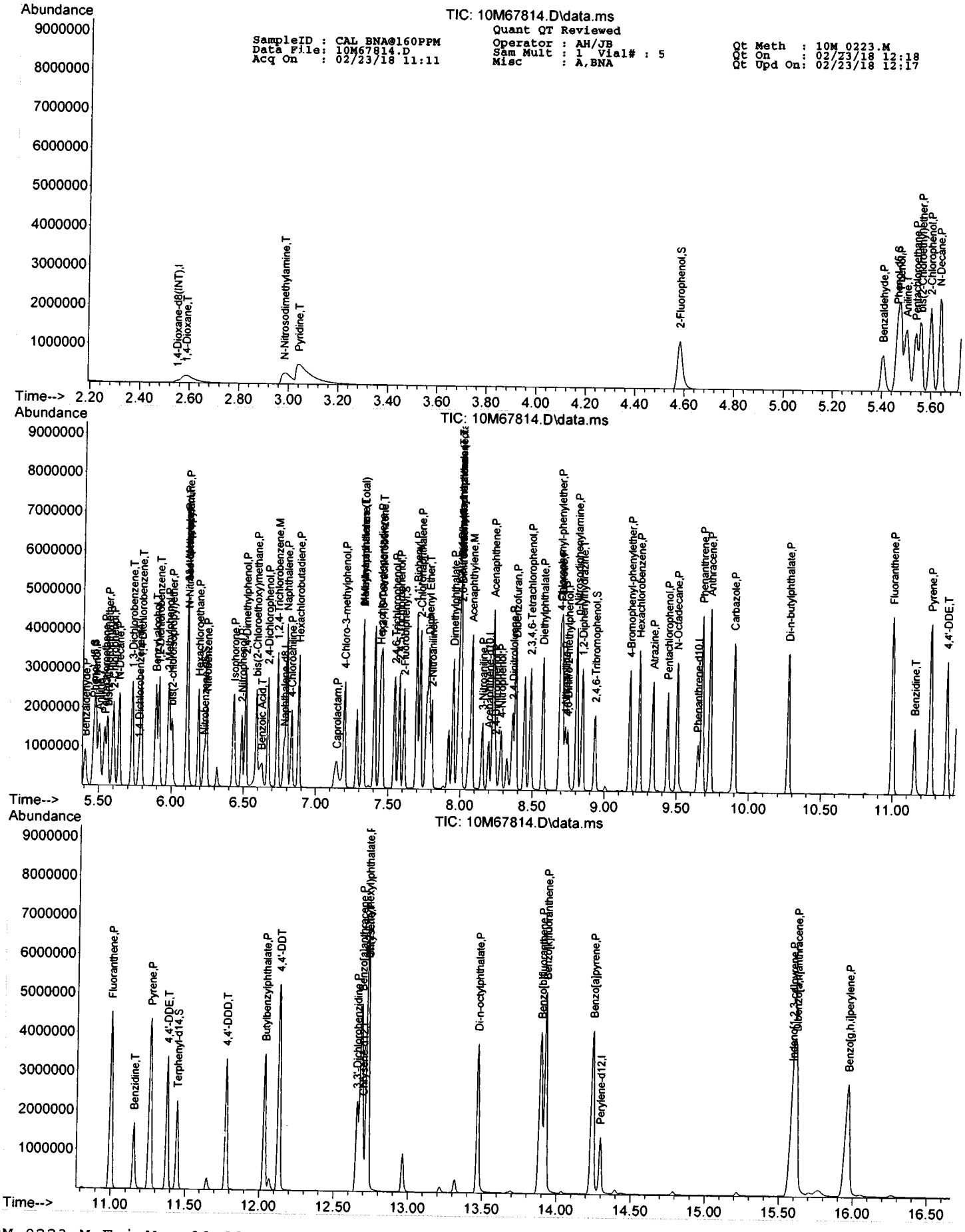
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@160PPM Operator : AH/JB Qt Meth : 10M_0223.M
Data File: 10M67814.D Sam Mult : 1 Vial# : 5 Qt On : 02/23/18 12:18
Acq On : 02/23/18 11:11 Misc : A,BNA Qt Upd On: 02/23/18 12:17

Data Path : G:\GcMsData\2018\GCMS_10\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.156	138	341697	151.3259	ng	67
67)	2,4-Dinitrophenol	8.247	184	218083	171.8817	ng	22
68)	Dibenzofuran	8.386	168	1755388	146.8659	ng	82
69)	2,4-Dinitrotoluene	8.364	165	480740	152.9937	ng	49
70)	4-Nitrophenol	8.284	65	248653	163.6108	ng	90
71)	2,3,4,6-Tetrachlorophenol	8.488	232	462142	154.0914	ng	78
72)	Fluorene	8.701	166	1347316	130.4025	ng	99
73)	4-Chlorophenyl-phenyle...	8.691	204	752958	139.1140	ng	77
74)	Diethylphthalate	8.573	149	1388966	145.0432	ng	93
75)	4-Nitroaniline	8.728	138	452474	156.0087	ng	63
76)	Atrazine	9.338	200	430908	153.2926	ng	92
78)	4,6-Dinitro-2-methylph...	8.744	198	287617	162.4987	ng	82
79)	n-Nitrosodiphenylamine	8.808	169	1241607	135.6984	ng	100
81)	1,2-Diphenylhydrazine	8.846	77	1368482	153.4571	ng	71
82)	4-Bromophenyl-phenylether	9.177	248	516193	149.6473	ng	72
83)	Hexachlorobenzene	9.242	284	602351	148.8187	ng	55
84)	N-Octadecane	9.504	57	642074	164.2681	ng	71
85)	Pentachlorophenol	9.440	266	379426	152.2818	ng	96
86)	Phenanthrene	9.680	178	2080237	132.7933	ng	99
87)	Anthracene	9.734	178	2158329	136.9755	ng	98
88)	Carbazole	9.900	167	2029299	140.3994	ng	98
89)	Di-n-butylphthalate	10.279	149	2237374	147.5245	ng	97
90)	Fluoranthene	11.001	202	2280367	138.6427	ng	91
92)	Pyrene	11.269	202	2327029	139.6237	ng	86
93)	Benzidine	11.156	184	748832	163.5203	ng	87
95)	4,4'-DDE	11.381	246	471194	149.4042	ng	87
96)	4,4'-DDD	11.777	235	797315	154.0339	ng	93
97)	Butylbenzylphthalate	12.039	149	1032000	164.4546	ng	63
98)	4,4'-DDT	12.135	235	649393	159.4425	ng	94
99)	3,3'-Dichlorobenzidine	12.654	252	603889	139.3466	ng	96
100)	Benzo[a]anthracene	12.686	228	2414095	144.6049	ng	98
101)	Chrysene	12.729	228	2128750	147.9618	ng	100
102)	bis(2-Ethylhexyl)phtha...	12.724	149	1203682	148.3383	ng	86
104)	Di-n-octylphthalate	13.472	149	2307145	145.3821	ng	100
105)	Benzo[b]fluoranthene	13.895	252	2614543m	144.9530	ng	
106)	Benzo[k]fluoranthene	13.927	252	2305026m	129.4081	ng	
107)	Benzo[a]pyrene	14.248	252	2476100	143.4022	ng	90
108)	Indeno[1,2,3-cd]pyrene	15.590	276	2950320	148.6421	ng	77
109)	Dibenzo[a,h]anthracene	15.617	278	2457484	145.9935	ng	86
110)	Benzo[g,h,i]perylene	15.970	276	2552695	147.4463	ng	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M67814.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@160PPM
Data File: 10M67814.D
Acq On : 02/23/18 11:11
Operator : AH/JB
Sam Mult : 1 Vial# : 5
Misc : A,BNA
Qt Meth : 10M_0223.M
Qt On : 02/23/18 12:18
Qt Upd On: 02/23/18 12:17
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d6,S
Aniline,T
Pentachloroethane,P
bis(2-Chloroethyl)ether,P
2-Chlorophenol,P
N-Decane,P
Time--> 2.20 2.40 2.60 2.80 3.00 3.20 3.40 3.60 3.80 4.00 4.20 4.40 4.60 4.80 5.00 5.20 5.40 5.60
Abundance
TIC: 10M67814.D\data.ms
Benzaldehyde,P
1,3-Dichlorobenzene,T
1,4-Dichlorobenzene,T
Benzyl alcohol,P
1,2-Dichlorobenzene,T
bis(2-chloroisopropyl)ether,P
N-Decane,P
Hexachloroethane,P
Nitrobenzene,P
Isophorone,P
2-Nitrophenol,P
2,4-Dimethylphenol,P
bis(2-Chloroethoxy)methane,P
Benzoic Acid,T
2,4-Dichlorophenol,P
1,2,4-Trichlorobenzene,M
Naphthalene,P
4-Chloroaniline,P
Hexachlorobutadiene,P
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,P
Hexachlorocyclopentadiene,T
2,4,6-Trichlorophenol,P
2-Fluorobiphenyl,S
2-Chloronaphthalene,P
2-Nitroaniline,P
Dimethylphthalate,P
Acenaphthylene,M
Acenaphthene,P
3-Nitroaniline,P
2,4-Dinitrophenol,P
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Chlorophenyl-phenylether,P
4,6-Dinitro-2-methylphenol,P
1,2-Diphenylhydrazine,M
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Time--> 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00
Abundance
TIC: 10M67814.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
3,3'-Dichlorobenzidine,P
Benzo(a)anthracene,P
Chrysene-d12,I
bis(2-Ethylhexyl)phthalate,P
Di-n-octylphthalate,P
Benzo(b)fluoranthene,P
Benzo(k)fluoranthene,P
Benzo(a)pyrene,P
Perylene-d12,I
Indeno(1,2,3-cd)pyrene,P
Dibenz(a,h)anthracene,P
Benzo(g,h,i)perylene,P
Time--> 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50 15.00 15.50 16.00 16.50

Sample ID : CAL BNA@196PPM
Data File: 10M67813.D
Acq On : 02/23/18 10:49

Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : A,BNA

Qt Meth : 10M_0223.M
Qt On : 02/23/18 12:17
Qt Upd On: 02/23/18 12:17

Data Path : G:\GcMsData\2018\GCMS_10\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.551	96	60188	40.00	ng	-0.07
21) 1,4-Dichlorobenzene-d4	5.776	152	117277	40.00	ng	-0.04
31) Naphthalene-d8	6.781	136	460646	40.00	ng	-0.04
50) Acenaphthene-d10	8.199	164	290010	40.00	ng	-0.05
77) Phenanthrene-d10	9.648	188	509307	40.00	ng	-0.05
91) Chrysene-d12	12.697	240	553133	40.00	ng	-0.05
103) Perylene-d12	14.296	264	573772	40.00	ng	-0.07
System Monitoring Compounds						
11) 2-Fluorophenol	4.583	112	695948	191.98	ng	-0.04
Spiked Amount 100.000			Recovery = 191.98%			
16) Phenol-d5	5.471	99	790148	179.18	ng	-0.03
Spiked Amount 100.000			Recovery = 179.18%			
32) Nitrobenzene-d5	6.231	128	185071	103.78	ng	-0.04
Spiked Amount 50.000			Recovery = 207.56%			
55) 2-Fluorobiphenyl	7.610	172	912415	89.86	ng	-0.05
Spiked Amount 50.000			Recovery = 179.72%			
80) 2,4,6-Tribromophenol	8.937	330	349344	187.40	ng	-0.05
Spiked Amount 100.000			Recovery = 187.40%			
94) Terphenyl-d14	11.445	244	933082	95.84	ng	-0.06
Spiked Amount 50.000			Recovery = 191.68%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.588	88	292745m	178.5811	ng	
9) Pyridine	3.043	79	918411	194.9584	ng	67
10) N-Nitrosodimethylamine	2.989	74	520855	203.7826	ng	69
12) Benzaldehyde	5.407	77	285733	154.1264	ng	71
13) Aniline	5.503	93	1060501	177.1780	ng	63
14) Pentachloroethane	5.541	117	230684	170.7406	ng	74
15) bis(2-Chloroethyl)ether	5.562	93	753381	170.9650	ng	77
17) Phenol	5.482	94	951987	168.9229	ng	81
18) 2-Chlorophenol	5.599	128	819542	176.1421	ng	77
19) N-Decane	5.642	57	612613m	172.8098	ng	
20) 1,3-Dichlorobenzene	5.728	146	862423	165.6346	ng	97
22) 1,4-Dichlorobenzene	5.792	146	871401	171.0819	ng	98
23) 1,2-Dichlorobenzene	5.915	146	835740	173.1062	ng	98
24) Benzyl alcohol	5.894	108	538441	193.7188	ng	67
25) bis(2-chloroisopropyl)...	6.006	45	884365	199.2578	ng	97
26) 2-Methylphenol	5.984	108	734408	183.0693	ng	98
27) Acetophenone	6.108	105	670677	148.4628	ng	77
28) Hexachloroethane	6.188	117	322772	186.2039	ng	88
29) N-Nitroso-di-n-propyla...	6.118	70	416947	165.9194	ng	63
30) 3&4-Methylphenol	6.113	108	548110	191.2864	ng	99
33) Nitrobenzene	6.247	77	744305	193.9543	ng	70
34) Isophorone	6.434	82	1398532	187.1254	ng	78
35) 2-Nitrophenol	6.487	139	450965	181.3918	ng	79
36) 2,4-Dimethylphenol	6.519	107	732569	172.1902	ng	89
37) Benzoic Acid	6.637	105	516709	183.4415	ng	81
38) bis(2-Chloroethoxy)met...	6.594	93	861927	171.8573	ng	95
39) 2,4-Dichlorophenol	6.674	162	703715	178.8879	ng	84
40) 1,2,4-Trichlorobenzene	6.733	180	747444	166.8444	ng	97
41) Naphthalene	6.798	128	2176689	183.0311	ng	98
42) 4-Chloroaniline	6.835	127	617285m	136.0675	ng	
43) Hexachlorobutadiene	6.883	225	442046	173.1857	ng	97
44) Caprolactam	7.151	113	276660	183.8492	ng	63
45) 4-Chloro-3-methylphenol	7.199	107	660190	189.5831	ng	75
46) 2-Methylnaphthalene	7.327	142	1429319	156.3981	ng	100
47) 1-Methylnaphthalene	7.407	142	1411845	157.9762	ng	94
48) Methylnaphthalenes (To...	7.327	142	2825128m	313.2323	ng	
49) 1,1'-Biphenyl	7.701	154	1626941	158.7867	ng	93
51) 1,2,4,5-Tetrachloroben...	7.461	216	712133	167.0708	ng	99
52) Hexachlorocyclopentadiene	7.445	237	531825	179.6137	ng	97
53) 2,4,6-Trichlorophenol	7.546	196	544309	194.5734	ng	99
54) 2,4,5-Trichlorophenol	7.578	196	592196m	187.6792	ng	
56) 2-Chloronaphthalene	7.723	162	1502966	186.7954	ng	91
57) 1,4-Dimethylnaphthalene	8.001	156	852521	139.1063	ng	88
58) Dimethylnaphthalenes (...	8.001	156	852521	139.1063	ng	88
59) Diphenyl Ether	7.782	170	991203	162.4462	ng	71
60) 2-Nitroaniline	7.803	65	460601	204.5776	ng	32
61) Coumarin	7.996	146	446019	144.4466	ng	85
62) Acenaphthylene	8.081	152	2169810	161.2812	ng	98
63) Dimethylphthalate	7.953	163	1685108	171.0734	ng	97
64) 2,6-Dinitrotoluene	8.012	165	339782	193.9197	ng	47
65) Acenaphthene	8.231	153	1371684	155.1383	ng	97

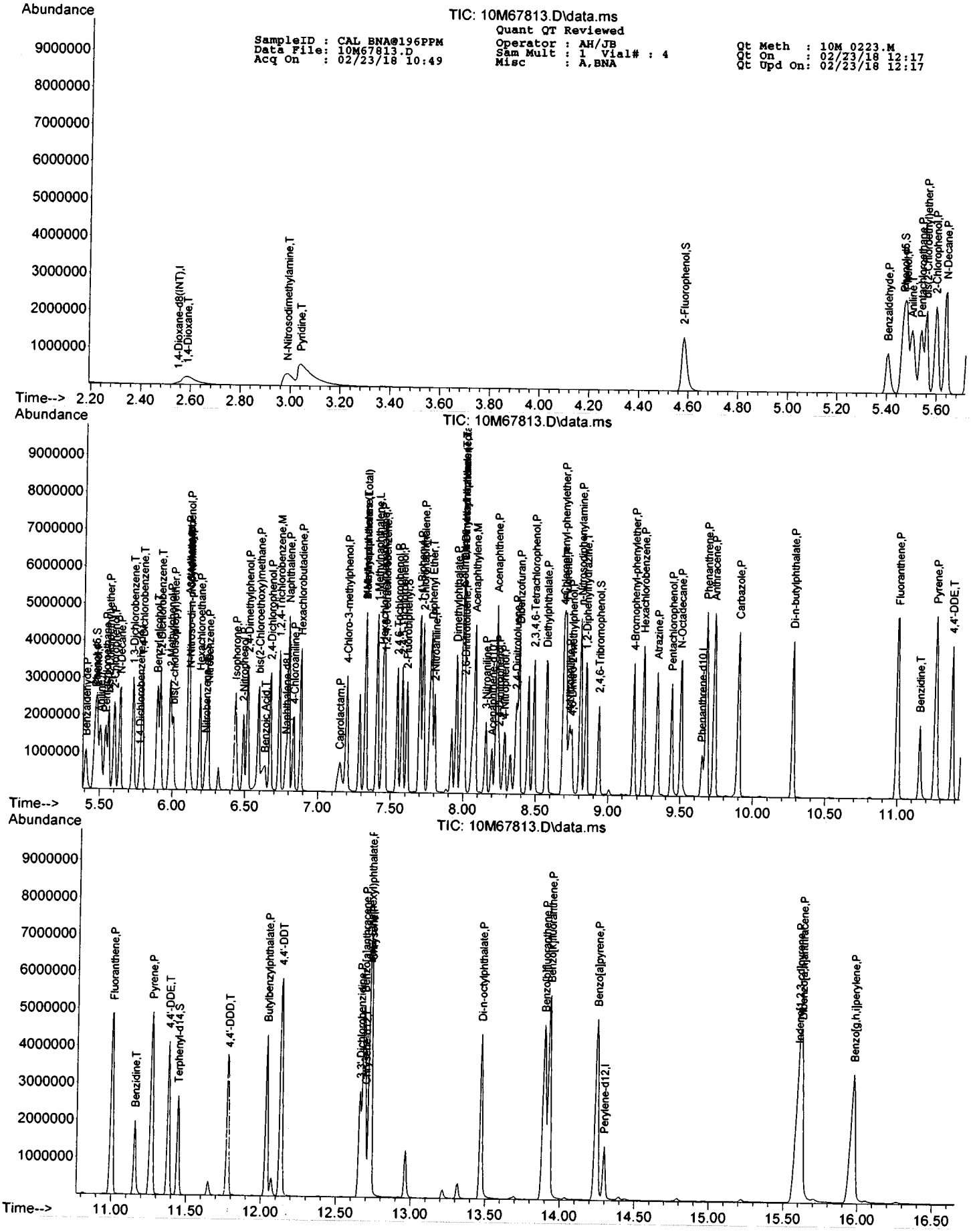
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@196PPM Operator : AH/JB Qt Meth : 10M_0223.M
Data File: 10M67813.D Sam Mult : 1 Vial# : 4 Qt On : 02/23/18 12:17
Acq On : 02/23/18 10:49 Misc : A,BNA Qt Upd On: 02/23/18 12:17

Data Path : G:\GcMsData\2018\GCMS_10\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.156	138	389855	183.9030	ng	69
67)	2,4-Dinitrophenol	8.247	184	256747	199.7812	ng	26
68)	Dibenzofuran	8.386	168	2035254	181.7002	ng	84
69)	2,4-Dinitrotoluene	8.365	165	567382	184.1438	ng	53
70)	4-Nitrophenol	8.284	65	302488	203.4298	ng	93
71)	2,3,4,6-Tetrachlorophenol	8.488	232	555542	192.0021	ng	78
72)	Fluorene	8.707	166	1539239	154.4218	ng	100
73)	4-Chlorophenyl-phenyle...	8.691	204	856260	163.9804	ng	78
74)	Diethylphthalate	8.573	149	1637537	177.2487	ng	93
75)	4-Nitroaniline	8.734	138	545558	191.9108	ng	63
76)	Atrazine	9.338	200	527924	194.6678	ng	93
78)	4,6-Dinitro-2-methylph...	8.750	198	346072	192.0636	ng	83
79)	n-Nitrosodiphenylamine	8.809	169	1444493	162.2383	ng	99
81)	1,2-Diphenylhydrazine	8.846	77	1599407	184.3123	ng	70
82)	4-Bromophenyl-phenylether	9.178	248	607520	180.9942	ng	73
83)	Hexachlorobenzene	9.242	284	713782	181.2261	ng	56
84)	N-Octadecane	9.504	57	738885	204.9613	ng	70
85)	Pentachlorophenol	9.440	266	462898	184.7809	ng	96
86)	Phenanthrene	9.680	178	2391625	156.8931	ng	99
87)	Anthracene	9.734	178	2484948	162.0653	ng	98
88)	Carbazole	9.905	167	2382188	169.3724	ng	98
89)	Di-n-butylphthalate	10.279	149	2611742	178.7470	ng	97
90)	Fluoranthene	11.007	202	2694278	168.3379	ng	89
92)	Pyrene	11.269	202	2738119	169.8312	ng	86
93)	Benzidine	11.157	184	859492	208.1406	ng	88
95)	4,4'-DDE	11.381	246	574315	188.2439	ng	86
96)	4,4'-DDD	11.782	235	942826	188.2893	ng	93
97)	Butylbenzylphthalate	12.039	149	1231242	202.8231	ng	63
98)	4,4'-DDT	12.135	235	763923	193.8893	ng	93
99)	3,3'-Dichlorobenzidine	12.660	252	705242	172.0505	ng	95
100)	Benzo[a]anthracene	12.686	228	2829809	175.2240	ng	98
101)	Chrysene	12.734	228	2486394	182.2544	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.724	149	1420528	180.9669	ng	85
104)	Di-n-octylphthalate	13.473	149	2709700	176.3267	ng	100
105)	Benzo[b]fluoranthene	13.895	252	3060625m	174.3843	ng	
106)	Benzo[k]fluoranthene	13.933	252	2842619m	164.0100	ng	
107)	Benzo[a]pyrene	14.248	252	2969023	176.7125	ng	91
108)	Indeno[1,2,3-cd]pyrene	15.601	276	3500174	181.2292	ng	79
109)	Dibenzo[a,h]anthracene	15.623	278	2877718	175.6940	ng	86
110)	Benzo[g,h,i]perylene	15.976	276	3040127	180.4649	ng	73

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M67813.D\data.ms
SampleID : CAL BNA@196PPM
Data File: 10M67813.D
Acq On : 02/23/18 10:49
Quant QT Reviewed
Operator : AH/JB
Sam Mult : 1 Vial# : 4
Misc : A,BNA
Qt Meth : 10M_0223.M
Qt On : 02/23/18 12:17
Qt Upd On: 02/23/18 12:17
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,P
Pentachloroethane,P
bis(2-Chloroethyl)ether,P
2-Chlorophenol,P
N-Decane,P
Time--> 2.20 2.40 2.60 2.80 3.00 3.20 3.40 3.60 3.80 4.00 4.20 4.40 4.60 4.80 5.00 5.20 5.40 5.60
Abundance
TIC: 10M67813.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Benzoic Acid,T
Naphthalene,P
Hexachlorobutadiene,P
Acenaphthylene,P
Acenaphthene,P
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Time--> 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00
Abundance
TIC: 10M67813.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo(b)fluoranthene,P
Benzo(k)fluoranthene,P
Benzo(a)pyrene,P
Perylene-d12,I
Benzo(g,h,i)perylene,P
Time--> 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50 15.00 15.50 16.00 16.50

SampleID : CAL BNA@.5PPM Operator : AH/JB Qt Meth : 10M_02[illegible]
Data File: 10M67818.D Sam Mult : 1 Vial# : 9 Qt On : 02/23/18 12:59
Acq On : 02/23/18 12:40 Misc : A,BNA Qt Upd On: 02/21/18 16:16

Data Path : G:\GcMsData\2018\GCMS_10\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.556	96	62188	40.00	ng	-0.06
21) 1,4-Dichlorobenzene-d4	5.776	152	119446	40.00	ng	-0.04
31) Naphthalene-d8	6.776	136	447989	40.00	ng	-0.05
50) Acenaphthene-d10	8.193	164	277645	40.00	ng	-0.05
77) Phenanthrene-d10	9.643	188	476064	40.00	ng	-0.06
91) Chrysene-d12	12.681	240	563758	40.00	ng	-0.07
103) Perylene-d12	14.291	264	544910	40.00	ng	-0.07
System Monitoring Compounds						
11) 2-Fluorophenol	0.000	112	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
16) Phenol-d5	0.000	99	0d	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
32) Nitrobenzene-d5	0.000	128	0	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
55) 2-Fluorobiphenyl	0.000	172	0d	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
80) 2,4,6-Tribromophenol	0.000	330	0	0.00	ng	
Spiked Amount 100.000			Recovery =	0.00%		
94) Terphenyl-d14	0.000	244	0d	0.00	ng	
Spiked Amount 50.000			Recovery =	0.00%		
Target Compounds						Qvalue
8) 1,4-Dioxane	2.593	88	889m	0.5249	ng	
9) Pyridine	0.000		0	N.D.		
10) N-Nitrosodimethylamine	0.000		0	N.D.	d	
12) Benzaldehyde	0.000		0	N.D.	d	
13) Aniline	5.498	93	2220	0.3403	ng	29
14) Pentachloroethane	0.000		0	N.D.	d	
15) bis(2-Chloroethyl)ether	5.551	93	2540	0.5579	ng	77
17) Phenol	0.000		0	N.D.	d	
18) 2-Chlorophenol	0.000		0	N.D.	d	
19) N-Decane	0.000		0	N.D.	d	
20) 1,3-Dichlorobenzene	0.000		0	N.D.	d	
22) 1,4-Dichlorobenzene	0.000		0	N.D.	d	
23) 1,2-Dichlorobenzene	0.000		0	N.D.	d	
24) Benzyl alcohol	0.000		0	N.D.	d	
25) bis(2-chloroisopropyl)...	0.000		0	N.D.	d	
26) 2-Methylphenol	5.974	108	2245	0.5495	ng	93
27) Acetophenone	0.000		0	N.D.	d	
28) Hexachloroethane	0.000		0	N.D.	d	
29) N-Nitroso-di-n-propyla...	6.102	70	1472	0.5751	ng	67
30) 3&4-Methylphenol	6.097	108	2367	0.5658	ng	100
33) Nitrobenzene	0.000		0	N.D.	d	
34) Isophorone	0.000		0	N.D.	d	
35) 2-Nitrophenol	0.000		0	N.D.	d	
36) 2,4-Dimethylphenol	6.509	107	2065	0.4991	ng	75
37) Benzoic Acid	0.000		0	N.D.	d	
38) bis(2-Chloroethoxy)met...	0.000		0	N.D.	d	
39) 2,4-Dichlorophenol	6.664	162	1768	0.4621	ng	83
40) 1,2,4-Trichlorobenzene	0.000		0	N.D.	d	
41) Naphthalene	6.792	128	8637m	0.6486	ng	
42) 4-Chloroaniline	6.830	127	2137	0.4844	ng	93
43) Hexachlorobutadiene	0.000		0	N.D.	d	
44) Caprolactam	0.000		0	N.D.		
45) 4-Chloro-3-methylphenol	0.000		0	N.D.	d	
46) 2-Methylnaphthalene	0.000		0	N.D.	d	
47) 1-Methylnaphthalene	0.000		0	N.D.	d	
48) Methylnaphthalenes (To...	0.000		0	N.D.	d	
49) 1,1'-Biphenyl	0.000		0	N.D.	d	
51) 1,2,4,5-Tetrachloroben...	0.000		0	N.D.	d	
52) Hexachlorocyclopentadiene	0.000		0	N.D.	d	
53) 2,4,6-Trichlorophenol	0.000		0	N.D.	d	
54) 2,4,5-Trichlorophenol	0.000		0	N.D.	d	
56) 2-Chloronaphthalene	0.000		0	N.D.	d	
57) 1,4-Dimethylnaphthalene	0.000		0	N.D.	d	
58) Dimethylnaphthalenes (...	0.000		0	N.D.	d	
59) Diphenyl Ether	0.000		0	N.D.	d	
60) 2-Nitroaniline	0.000		0	N.D.	d	
61) Coumarin	0.000		0	N.D.	d	
62) Acenaphthylene	0.000		0	N.D.	d	
63) Dimethylphthalate	0.000		0	N.D.	d	
64) 2,6-Dinitrotoluene	0.000		0	N.D.	d	
65) Acenaphthene	0.000		0	N.D.	d	

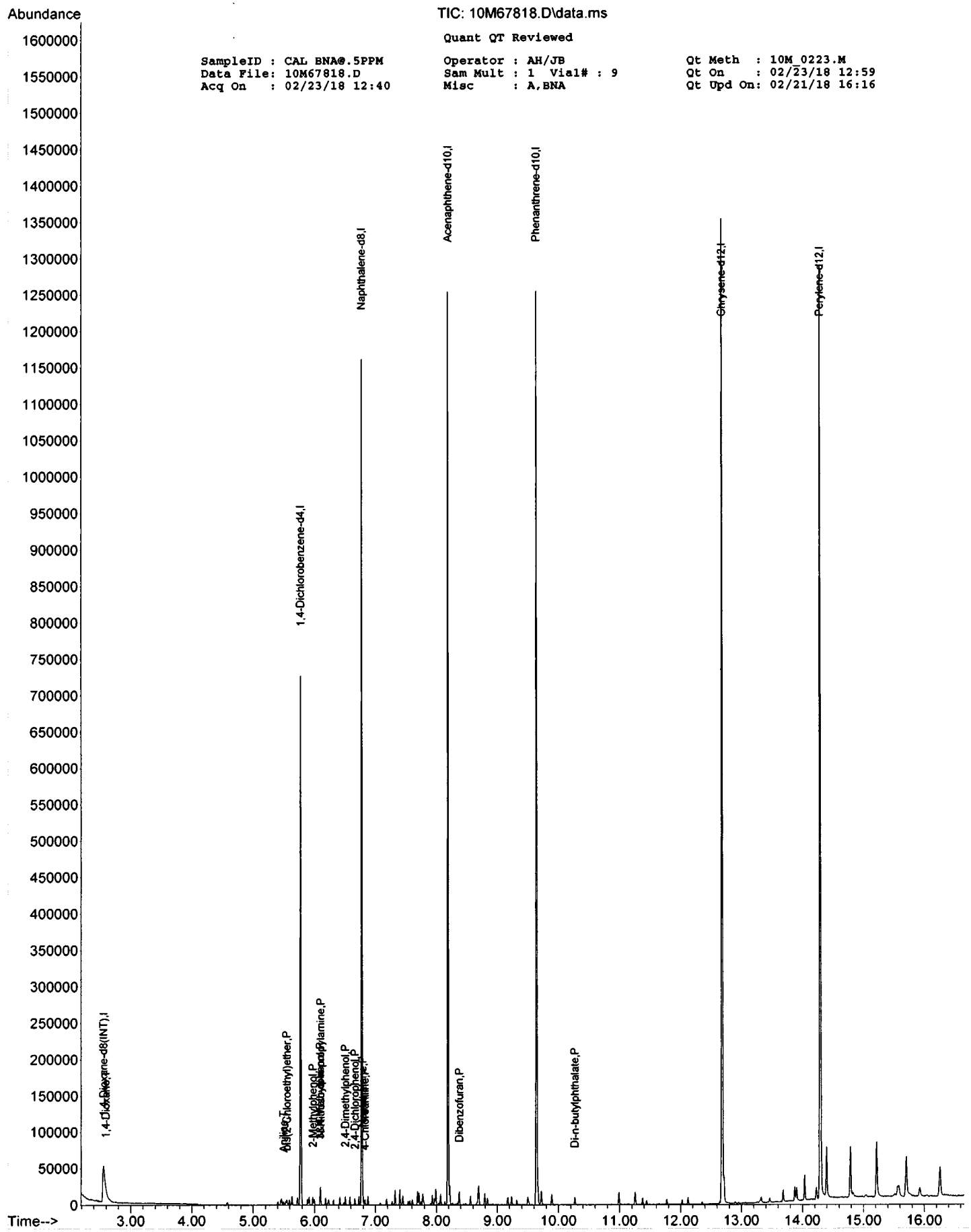
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@.5PPM Operator : AH/JB Qt Meth : 10M_0223.M
Data File: 10M67818.D Sam Mult : 1 Vial# : 9 Qt On : 02/23/18 12:59
Acq On : 02/23/18 12:40 Misc : A,BNA Qt Upd On: 02/21/18 16:16

Data Path : G:\GcMsData\2018\GCMS_10\Data\02-23-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
66)	3-Nitroaniline	0.000		0	N.D.	d		
67)	2,4-Dinitrophenol	0.000		0	N.D.			
68)	Dibenzofuran	8.375	168	8166	0.6604	ng		76
69)	2,4-Dinitrotoluene	0.000		0	N.D.	d		
70)	4-Nitrophenol	0.000		0	N.D.	d		
71)	2,3,4,6-Tetrachlorophenol	0.000		0	N.D.	d		
72)	Fluorene	0.000		0	N.D.	d		
73)	4-Chlorophenyl-phenyle...	0.000		0	N.D.	d		
74)	Diethylphthalate	0.000		0	N.D.	d		
75)	4-Nitroaniline	0.000		0	N.D.	d		
76)	Atrazine	0.000		0	N.D.	d		
78)	4,6-Dinitro-2-methylph...	0.000		0	N.D.			
79)	n-Nitrosodiphenylamine	0.000		0	N.D.	d		
81)	1,2-Diphenylhydrazine	0.000		0	N.D.	d		
82)	4-Bromophenyl-phenylether	0.000		0	N.D.	d		
83)	Hexachlorobenzene	0.000		0	N.D.	d		
84)	N-Octadecane	0.000		0	N.D.	d		
85)	Pentachlorophenol	0.000		0	N.D.			
86)	Phenanthrene	0.000		0	N.D.	d		
87)	Anthracene	0.000		0	N.D.	d		
88)	Carbazole	0.000		0	N.D.	d		
89)	Di-n-butylphthalate	10.269	149	5701	0.3948	ng		96
90)	Fluoranthene	0.000		0	N.D.	d		
92)	Pyrene	0.000		0	N.D.	d		
93)	Benzidine	0.000		0	N.D.	d		
95)	4,4'-DDE	0.000		0	N.D.	d		
96)	4,4'-DDD	0.000		0	N.D.	d		
97)	Butylbenzylphthalate	0.000		0	N.D.	d		
98)	4,4'-DDT	0.000		0	N.D.	d		
99)	3,3'-Dichlorobenzidine	0.000		0	N.D.	d		
100)	Benzo[a]anthracene	0.000		0	N.D.	d		
101)	Chrysene	0.000		0	N.D.	d		
102)	bis(2-Ethylhexyl)phtha...	0.000		0	N.D.	d		
104)	Di-n-octylphthalate	0.000		0	N.D.	d		
105)	Benzo[b]fluoranthene	0.000		0	N.D.	d		
106)	Benzo[k]fluoranthene	0.000		0	N.D.	d		
107)	Benzo[a]pyrene	0.000		0	N.D.	d		
108)	Indeno[1,2,3-cd]pyrene	0.000		0	N.D.	d		
109)	Dibenzo[a,h]anthracene	0.000		0	N.D.	d		
110)	Benzo[g,h,i]perylene	0.000		0	N.D.	d		

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M67818.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@.5PPM
Data File: 10M67818.D
Acq On : 02/23/18 12:40
Operator : AH/JB
Sam Mult : 1 Vial# : 9
Misc : A,BNA
Qt Meth : 10M_0223.M
Qt On : 02/23/18 12:59
Qt Upd On: 02/21/18 16:16
1,4-Dichlorobenzene-d4,I
Naphthalene-d8,I
Acenaphthene-d10,I
Phenanthrene-d10,I
Chrysene-d12,I
Perylene-d12,I
1,4-Dichlorobenzene-d8(INT),I
2-Methylphenol,P
2,4-Dimethylphenol,P
2,4-Dichlorophenol,P
Dibenzofuran,P
Di-n-butylphthalate,P
Time-->

TxtDfile: 10M67820.D ICV FORM Date/Time: 02/23/18 13:24 8022605 0236

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
1.4-Dioxane	1	0		54.9607	50	110		70	130
Pyridine	1	0		45.9509	50	92		50	150
N-Nitrosodimethylamine	1	0		47.0402	50	94		70	130
Benzaldehyde	1	0		54.784	50	110		50	150
Aniline	1	0		48.2501	50	97		50	150
Pentachloroethane	1	0		53.2669	50	107		70	130
bis(2-Chloroethyl)ether	1	0		46.3407	50	93		70	130
Phenol	1	0		49.2538	50	99		70	130
2-Chlorophenol	1	0		48.2004	50	96		70	130
1.3-Dichlorobenzene	1	0		47.7432	50	95		70	130
1.4-Dichlorobenzene	1	0		47.558	50	95		70	130
1.2-Dichlorobenzene	1	0		47.4684	50	95		70	130
Benzyl alcohol	1	0		47.0421	50	94		70	130
bis(2-chloroisopropyl)ether	1	0		46.4618	50	93		70	130
2-Methylphenol	1	0		47.0043	50	94		70	130
Acetophenone	1	0		63.1384	50	126		70	130
Hexachloroethane	1	0		47.5523	50	95		70	130
N-Nitroso-di-n-propylamine	1	0		48.0908	50	96		70	130
3&4-Methylphenol	1	0		45.8276	50	92		70	130
Nitrobenzene	1	0		48.4066	50	97		70	130
Isophorone	1	0		49.0895	50	98		70	130
2-Nitrophenol	1	0		50.2208	50	100		70	130
2.4-Dimethylphenol	1	0		46.3784	50	93		70	130
Benzoic Acid	1	0		36.511	50	73		70	130
bis(2-Chloroethoxy)methane	1	0		47.368	50	95		70	130
2.4-Dichlorophenol	1	0		49.2563	50	99		70	130
1.2.4-Trichlorobenzene	1	0		48.0091	50	96		70	130
Naphthalene	1	0		48.309	50	97		70	130
4-Chloroaniline	1	0		50.1262	50	100		50	150
Hexachlorobutadiene	1	0		46.4633	50	93		70	130
Caprolactam	1	0		58.6814	50	117		70	130
4-Chloro-3-methylphenol	1	0		47.0334	50	94		70	130
2-Methylnaphthalene	1	0		47.2557	50	95		70	130
1-Methylnaphthalene	1	0		55.4166	50	111		70	130
1.1'-Biphenyl	1	0		51.0761	50	102		70	130
1.2.4.5-Tetrachlorobenzene	1	0		63.4348	50	127		70	130
Hexachlorocyclopentadiene	1	0		49.3912	50	99		70	130
2.4.6-Trichlorophenol	1	0		51.7007	50	103		70	130
2.4.5-Trichlorophenol	1	0		47.5339	50	95		70	130
2-Chloronaphthalene	1	0		45.8657	50	92		70	130
1.4-Dimethylnaphthalene	1	0		56.2532	50	113		70	130
Diphenyl Ether	1	0		61.201	50	122		70	130
2-Nitroaniline	1	0		47.9817	50	96		70	130
Acenaphthylene	1	0		53.0895	50	106		70	130
Dimethylphthalate	1	0		48.015	50	96		70	130
2.6-Dinitrotoluene	1	0		42.3015	50	85		70	130
Acenaphthene	1	0		48.6039	50	97		70	130
3-Nitroaniline	1	0		46.6667	50	93		70	130
2.4-Dinitrophenol	1	0		39.5985	50	79		70	130
Dibenzofuran	1	0		46.2017	50	92		70	130
2.4-Dinitrotoluene	1	0		43.7665	50	88		70	130
4-Nitrophenol	1	0		45.108	50	90		70	130
2.3.4.6-Tetrachlorophenol	1	0		47.0547	50	94		70	130
Fluorene	1	0		49.7592	50	100		70	130
4-Chlorophenyl-phenylether	1	0		46.9101	50	94		70	130
Diethylphthalate	1	0		49.0997	50	98		70	130
4-Nitroaniline	1	0		44.2533	50	89		70	130
Atrazine	1	0		62.6284	50	125		70	130
4.6-Dinitro-2-methylphenol	1	0		42.1376	50	84		70	130
n-Nitrosodiphenylamine	1	0		40.3185	50	81		70	130
1.2-Diphenylhydrazine	1	0		48.8742	50	98		70	130
4-Bromophenyl-phenylether	1	0		47.1443	50	94		70	130
Hexachlorobenzene	1	0		46.0084	50	92		70	130
Pentachlorophenol	1	0		42.7041	50	85		70	130
Phenanthrene	1	0		47.6826	50	95		70	130
Anthracene	1	0		48.2671	50	97		70	130
Carbazole	1	0		48.1901	50	96		70	130
Di-n-butylphthalate	1	0		44.8104	50	90		70	130
Fluoranthene	1	0		49.2493	50	98		70	130
Pyrene	1	0		48.7939	50	98		70	130
Benzidine	1	0		40.8969	50	82		50	150
Butylbenzylphthalate	1	0		42.0309	50	84		70	130
3.3'-Dichlorobenzidine	1	0		57.9502	50	116		50	150
Benzo[a]anthracene	1	0		47.6828	50	95		70	130
Chrysene	1	0		46.3955	50	93		70	130
bis(2-Ethylhexyl)phthalate	1	0		46.3269	50	93		70	130
Di-n-octylphthalate	1	0		43.3563	50	87		70	130
Benzo[b]fluoranthene	1	0		50.5221	50	101		70	130
Benzo[k]fluoranthene	1	0		48.3843	50	97		70	130
Benzo[a]pyrene	1	0		50.0056	50	100		70	130
Indeno[1.2.3-cd]pyrene	1	0		47.9471	50	96		70	130
Dibenzo[a.h]anthracene	1	0		48.3455	50	97		70	130
Benzo[g.h.i]perylene	1	0		45.0572	50	90		70	130

TxtDfile: 5M102998.D ICV FORM Date/Time: 02/23/18 12:55 8022605 0237

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
1.4-Dioxane	1	0		54.1708	50	108		70	130
Pyridine	1	0		42.8574	50	86		50	150
N-Nitrosodimethylamine	1	0		47.5011	50	95		70	130
Benzaldehyde	1	0		49.5428	50	99		50	150
Aniline	1	0		46.9588	50	94		50	150
Pentachloroethane	1	0		51.5515	50	103		70	130
bis(2-Chloroethyl)ether	1	0		44.7588	50	90		70	130
Phenol	1	0		45.7713	50	92		70	130
2-Chlorophenol	1	0		45.4446	50	91		70	130
1.3-Dichlorobenzene	1	0		44.8527	50	90		70	130
1.4-Dichlorobenzene	1	0		47.1796	50	94		70	130
1.2-Dichlorobenzene	1	0		47.9525	50	96		70	130
Benzyl alcohol	1	0		47.8252	50	96		70	130
bis(2-chloroisopropyl)ether	1	0		48.2723	50	97		70	130
2-Methylphenol	1	0		44.8978	50	90		70	130
Acetophenone	1	0		59.6235	50	119		70	130
Hexachloroethane	1	0		47.7813	50	96		70	130
N-Nitroso-di-n-propylamine	1	0		46.1388	50	92		70	130
3&4-Methylphenol	1	0		45.2122	50	90		70	130
Nitrobenzene	1	0		46.7956	50	94		70	130
Isophorone	1	0		47.0597	50	94		70	130
2-Nitrophenol	1	0		46.0189	50	92		70	130
2.4-Dimethylphenol	1	0		43.8302	50	88		70	130
Benzoic Acid	1	0		37.3174	50	75		70	130
bis(2-Chloroethoxy)methane	1	0		45.4253	50	91		70	130
2.4-Dichlorophenol	1	0		46.9946	50	94		70	130
1.2.4-Trichlorobenzene	1	0		46.2628	50	93		70	130
Naphthalene	1	0		45.5129	50	91		70	130
4-Chloroaniline	1	0		74.0834	50	148		50	150
Hexachlorobutadiene	1	0		44.5522	50	89		70	130
Caprolactam	1	0		61.4683	50	123		70	130
4-Chloro-3-methylphenol	1	0		45.7065	50	91		70	130
2-Methylnaphthalene	1	0		44.3513	50	89		70	130
1-Methylnaphthalene	1	0		53.3801	50	107		70	130
1.1'-Biphenyl	1	0		49.5828	50	99		70	130
1.2.4.5-Tetrachlorobenzene	1	0		62.2048	50	124		70	130
Hexachlorocyclopentadiene	1	0		48.2814	50	97		70	130
2.4.6-Trichlorophenol	1	0		45.5232	50	91		70	130
2.4.5-Trichlorophenol	1	0		48.9729	50	98		70	130
2-Chloronaphthalene	1	0		45.5694	50	91		70	130
1.4-Dimethylnaphthalene	1	0		51.4196	50	103		70	130
Diphenyl Ether	1	0		59.6238	50	119		70	130
2-Nitroaniline	1	0		51.2541	50	103		70	130
Acenaphthylene	1	0		49.8101	50	100		70	130
Dimethylphthalate	1	0		45.464	50	91		70	130
2.6-Dinitrotoluene	1	0		44.3415	50	89		70	130
Acenaphthene	1	0		46.2484	50	92		70	130
3-Nitroaniline	1	0		48.4453	50	97		70	130
2.4-Dinitrophenol	1	0		44.2918	50	89		70	130
Dibenzofuran	1	0		44.3964	50	89		70	130
2.4-Dinitrotoluene	1	0		46.3839	50	93		70	130
4-Nitrophenol	1	0		44.159	50	88		70	130
2.3.4.6-Tetrachlorophenol	1	0		44.5047	50	89		70	130
Fluorene	1	0		47.3108	50	95		70	130
4-Chlorophenyl-phenylether	1	0		45.4918	50	91		70	130
Diethylphthalate	1	0		46.7046	50	93		70	130
4-Nitroaniline	1	0		47.4662	50	95		70	130
Atrazine	1	0		65.0269	50	130		70	130
4.6-Dinitro-2-methylphenol	1	0		44.3962	50	89		70	130
n-Nitrosodiphenylamine	1	0		35.9041	50	72		70	130
1.2-Diphenylhydrazine	1	0		42.1602	50	84		70	130
4-Bromophenyl-phenylether	1	0		44.2808	50	89		70	130
Hexachlorobenzene	1	0		44.699	50	89		70	130
Pentachlorophenol	1	0		44.6129	50	89		70	130
Phenanthrene	1	0		43.6209	50	87		70	130
Anthracene	1	0		44.2198	50	88		70	130
Carbazole	1	0		45.0011	50	90		70	130
Di-n-butylphthalate	1	0		44.534	50	89		70	130
Fluoranthene	1	0		43.7005	50	87		70	130
Pyrene	1	0		47.7745	50	96		70	130
Benzidine	1	0		40.8257	50	82		50	150
Butylbenzylphthalate	1	0		45.6197	50	91		70	130
3.3'-Dichlorobenzidine	1	0		57.6576	50	115		50	150
Benzo[a]anthracene	1	0		47.4038	50	95		70	130
Chrysene	1	0		46.3058	50	93		70	130
bis(2-Ethylhexyl)phthalate	1	0		47.1774	50	94		70	130
Di-n-octylphthalate	1	0		46.7555	50	94		70	130
Benzo[b]fluoranthene	1	0		46.9665	50	94		70	130
Benzo[k]fluoranthene	1	0		48.286	50	97		70	130
Benzo[a]pyrene	1	0		47.4468	50	95		70	130
Indeno[1.2.3-cd]pyrene	1	0		47.0469	50	94		70	130
Dibenzo[a.h]anthracene	1	0		47.0238	50	94		70	130
Benzo[g.h.i]perylene	1	0		44.0875	50	88		70	130

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M67907.D **Instrument:** GCMS 10

Cont Calibration Date/Time 3/1/2018 9:50:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.56	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.59	49.82	50	**		1.066	1.008	0.36	
Pyridine	1	0		3.06	54.84	50	**		2.971	3.259	9.69	
N-Nitrosodimethylamine	1	0		2.99	55.53	50	**		1.686	1.873	11.06	
2-Fluorophenol	1	0	S	4.58	56.25	50	**		2.284	2.569	12.49	
Benzaldehyde	1	0		5.40	44.00	50	20	0.01	1.294	1.195	11.99	
Aniline	1	0		5.50	53.01	50	**		3.450	4.203	6.03	
Pentachloroethane	1	0		5.54	56.26	50	**	0.05	0.797	0.897	12.53	
bis(2-Chloroethyl)ether	1	0		5.56	55.15	50	20	0.7	2.749	3.032	10.30	
Phenol-d5	1	0	S	5.46	57.70	50	**		2.803	3.234	15.40	
Phenol	1	0		5.47	58.51	50	20	0.8	3.496	4.091	17.01	
2-Chlorophenol	1	0		5.59	56.87	50	20	0.8	2.837	3.227	13.73	
N-Decane	1	0		5.64	57.68	50	**	0.05	2.311	2.666	15.36	
1,3-Dichlorobenzene	1	0		5.73	54.18	50	**		3.128	3.390	8.36	
1,4-Dichlorobenzene-d4	1	0	I	5.78	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.79	50.70	50	20		1.651	1.674	1.40	
1,2-Dichlorobenzene	1	0		5.91	49.97	50	**		1.579	1.578	0.07	
Benzyl alcohol	1	0		5.89	51.79	50	**		0.944	0.977	3.59	
bis(2-chloroisopropyl)ether	1	0		6.00	52.79	50	20	0.01	1.683	1.777	5.59	
2-Methylphenol	1	0		5.97	50.24	50	20	0.7	1.343	1.349	0.48	
Acetophenone	1	0		6.10	52.89	50	20	0.01	1.492	1.578	5.78	
Hexachloroethane	1	0		6.19	51.18	50	20	0.3	0.580	0.594	2.36	
N-Nitroso-di-n-propylamine	1	0		6.10	53.01	50	20	0.5	0.864	0.916	6.02	
3&4-Methylphenol	1	0		6.10	50.54	50	20		1.275	1.354	1.08	
Naphthalene-d8	1	0	I	6.78	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.23	26.66	25	**		0.156	0.166	6.65	
Nitrobenzene	1	0		6.24	52.19	50	20	0.2	0.343	0.358	4.38	
Isophorone	1	0		6.42	51.90	50	20	0.4	0.649	0.673	3.79	
2-Nitrophenol	1	0		6.49	55.96	50	20	0.1	0.189	0.211	11.92	
2,4-Dimethylphenol	1	0		6.51	52.47	50	20	0.2	0.356	0.373	4.94	
Benzoic Acid	1	0		6.58	40.42	50	**		0.159	0.154	19.15	
bis(2-Chloroethoxy)methane	1	0		6.58	52.47	50	20	0.3	0.431	0.452	4.94	
2,4-Dichlorophenol	1	0		6.66	52.15	50	20	0.2	0.322	0.335	4.30	
1,2,4-Trichlorobenzene	1	0		6.73	49.90	50	**		0.363	0.362	0.20	
Naphthalene	1	0		6.79	50.19	50	20	0.7	1.195	1.191	0.38	
4-Chloroaniline	1	0		6.83	51.69	50	20	0.01	0.370	0.461	3.38	
Hexachlorobutadiene	1	0		6.88	49.48	50	20	0.01	0.207	0.205	1.03	
Caprolactam	1	0		7.10	46.36	50	20	0.01	0.107	0.111	7.28	
4-Chloro-3-methylphenol	1	0		7.19	52.98	50	20	0.2	0.304	0.322	5.96	
2-Methylnaphthalene	1	0		7.32	52.12	50	**	0.4	0.768	0.800	4.24	
1-Methylnaphthalene	1	0		7.40	51.67	50	**	0.4	0.749	0.774	3.34	
Methylnaphthalenes	1	0		7.40	103.76	100	**			0.783	3.76	
1,1'-Biphenyl	1	0		7.69	50.20	50	20	0.01	0.844	0.848	0.41	
Acenaphthene-d10	1	0	I	8.19	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.46	50.50	50	20	0.01	0.549	0.555	1.00	
Hexachlorocyclopentadiene	1	0		7.44	44.28	50	20	0.05	0.357	0.316	11.43	
2,4,6-Trichlorophenol	1	0		7.54	59.70	50	20	0.2	0.379	0.452	19.40	
2,4,5-Trichlorophenol	1	0		7.57	48.61	50	20	0.2	0.405	0.394	2.79	
2-Fluorobiphenyl	1	0	S	7.61	25.03	25	**		1.337	1.339	0.11	
2-Chloronaphthalene	1	0		7.72	48.63	50	20	0.8	1.192	1.177	2.74	
1,4-Dimethylnaphthalene	1	0		8.00	52.24	50	**		0.793	0.828	4.47	
Dimethylnaphthalenes	1	0		8.00	52.24	50	20			0.828	4.47	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M67907.D **Instrument:** GCMS 10

Cont Calibration Date/Time 3/1/2018 9:50:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.78	49.83	50	**		0.786	0.783	0.35	
2-Nitroaniline	1	0		7.79	49.01	50	20	0.01	0.324	0.348	1.98	
Coumarin	1	0		7.98	52.77		**		0.402			
Acenaphthylene	1	0		8.07	50.54	50	20	0.9	1.752	1.771	1.08	
Dimethylphthalate	1	0		7.94	50.73	50	20	0.01	1.299	1.318	1.47	
2,6-Dinitrotoluene	1	0		8.00	49.05	50	20	0.2	0.264	0.296	1.90	
Acenaphthene	1	0		8.23	51.22	50	20	0.9	1.165	1.193	2.43	
3-Nitroaniline	1	0		8.15	49.14	50	20	0.01	0.297	0.340	1.72	
2,4-Dinitrophenol	1	0		8.24	40.88	50	20	0.01	0.141	0.126	18.24	
Dibenzofuran	1	0		8.38	48.56	50	20	0.8	1.764	1.703	2.88	
2,4-Dinitrotoluene	1	0		8.35	48.06	50	20	0.2	0.370	0.404	3.88	
4-Nitrophenol	1	0		8.27	49.10	50	20	0.01	0.199	0.220	1.80	
2,3,4,6-Tetrachlorophenol	1	0		8.48	51.19	50	20	0.01	0.366	0.374	2.38	
Fluorene	1	0		8.70	50.02	50	20	0.9	1.314	1.315	0.04	
4-Chlorophenyl-phenylether	1	0		8.69	50.14	50	20	0.4	0.686	0.688	0.28	
Diethylphthalate	1	0		8.57	50.32	50	20	0.01	1.226	1.234	0.64	
4-Nitroaniline	1	0		8.71	47.27	50	20	0.01	0.353	0.367	5.47	
Atrazine	1	0		9.33	45.35	50	20	0.01	0.355	0.348	9.31	
Phenanthrene-d10	1	0	I	9.65	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.73	42.77	50	20	0.01	0.117	0.112	14.46	
n-Nitrosodiphenylamine	1	0		8.80	52.23	50	20	0.01	0.668	0.698	4.45	
2,4,6-Tribromophenol	1	0	S	8.93	48.03	50	**		0.125	0.137	3.94	
1,2-Diphenylhydrazine	1	0		8.84	51.48	50	**		0.671	0.691	2.96	
4-Bromophenyl-phenylether	1	0		9.17	50.10	50	20	0.1	0.253	0.253	0.21	
Hexachlorobenzene	1	0		9.24	51.34	50	20	0.1	0.299	0.307	2.68	
N-Octadecane	1	0		9.50	49.88	50	**	0.05	0.356	0.398	0.24	
Pentachlorophenol	1	0		9.43	49.30	50	20	0.05	0.155	0.169	1.39	
Phenanthrene	1	0		9.67	50.75	50	20	0.7	1.147	1.165	1.51	
Anthracene	1	0		9.73	53.04	50	20	0.7	1.156	1.226	6.08	
Carbazole	1	0		9.89	55.18	50	20	0.01	1.072	1.184	10.37	
Di-n-butylphthalate	1	0		10.27	52.26	50	20	0.01	1.087	1.307	4.53	
Fluoranthene	1	0		11.00	54.77	50	20	0.6	1.209	1.325	9.54	
Chrysene-d12	1	0	I	12.69	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.26	51.70	50	20	0.6	1.106	1.144	3.41	
Benzidine	1	0		11.15	30.39	50	**		0.326	0.272	39.22	
Terphenyl-d14	1	0	S	11.45	25.34	25	**		0.672	0.681	1.37	
4,4'-DDE	1	0		11.38	49.09		**		0.209			
4,4'-DDD	1	0		11.78	51.33		**		0.338			
Butylbenzylphthalate	1	0		12.03	47.53	50	20	0.01	0.421	0.459	4.94	
4,4'-DDT	1	0		12.13	52.36		**		0.284			
3,3'-Dichlorobenzidine	1	0		12.65	55.44	50	20	0.01	0.268	0.358	10.87	
Benzo[a]anthracene	1	0		12.68	51.42	50	20	0.8	1.101	1.132	2.84	
Chrysene	1	0		12.72	48.73	50	20	0.7	1.059	1.065	2.53	
bis(2-Ethylhexyl)phthalate	1	0		12.72	51.01	50	20	0.01	0.551	0.634	2.01	
Perylene-d12	1	0	I	14.30	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.47	49.45	50	20	0.01	0.936	1.127	1.10	
Benzo[b]fluoranthene	1	0		13.88	50.12	50	20	0.7	1.150	1.153	0.25	
Benzo[k]fluoranthene	1	0		13.92	53.48	50	20	0.7	1.124	1.203	6.96	
Benzo[a]pyrene	1	0		14.24	52.63	50	20	0.7	1.104	1.162	5.26	
Indeno[1,2,3-cd]pyrene	1	0		15.58	51.30	50	20	0.5	1.284	1.317	2.60	
Dibenzo[a,h]anthracene	1	0		15.60	51.57	50	20	0.4	1.082	1.116	3.14	
Benzo[g,h,i]perylene	1	0		15.95	50.98	50	20	0.5	1.111	1.133	1.97	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 10M67907.D **Instrument:** GCMS 10

Cont Calibration Date/Time 3/1/2018 9:50:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.755	0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.793	0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 10M_0223.M
Data File: 10M67907.D Sam Mult : 1 Vial# : 2 Qt On : 03/01/18 10:12
Acq On : 03/ 1/18 09:50 Misc : A,BNA Qt Upd On: 02/23/18 14:04

Data Path : G:\GcMsData\2018\GCMS_10\Data\03-01-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.561	96	65785	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.776	152	137297	40.00	ng	0.00
31) Naphthalene-d8	6.776	136	517648	40.00	ng	0.00
50) Acenaphthene-d10	8.193	164	316233	40.00	ng	0.00
77) Phenanthrene-d10	9.648	188	526411	40.00	ng	0.00
91) Chrysene-d12	12.692	240	637587	40.00	ng	0.00
103) Perylene-d12	14.296	264	620834	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.578	112	211237	56.25	ng	0.00
Spiked Amount 100.000			Recovery =	56.25%		
16) Phenol-d5	5.460	99	265966	57.70	ng	0.00
Spiked Amount 100.000			Recovery =	57.70%		
32) Nitrobenzene-d5	6.225	128	53790	26.66	ng	0.00
Spiked Amount 50.000			Recovery =	53.32%		
55) 2-Fluorobiphenyl	7.610	172	264594	25.03	ng	0.00
Spiked Amount 50.000			Recovery =	50.06%		
80) 2,4,6-Tribromophenol	8.926	330	89910	48.03	ng	0.00
Spiked Amount 100.000			Recovery =	48.03%		
94) Terphenyl-d14	11.445	244	271289	25.34	ng	0.00
Spiked Amount 50.000			Recovery =	50.68%		
Target Compounds						Qvalue
8) 1,4-Dioxane	2.593	88	82850	49.8189	ng	63
9) Pyridine	3.064	79	268014	54.8437	ng	71
10) N-Nitrosodimethylamine	2.994	74	153998	55.5314	ng	70
12) Benzaldehyde	5.401	77	98289	44.0034	ng	72
13) Aniline	5.498	93	345603	53.0139	ng	35
14) Pentachloroethane	5.535	117	73762	56.2640	ng	78
15) bis(2-Chloroethyl)ether	5.556	93	249336	55.1504	ng	76
17) Phenol	5.471	94	336433	58.5067	ng	77
18) 2-Chlorophenol	5.594	128	265354	56.8653	ng	78
19) N-Decane	5.637	57	219252	57.6813	ng	81
20) 1,3-Dichlorobenzene	5.728	146	278730	54.1812	ng	96
22) 1,4-Dichlorobenzene	5.792	146	287228	50.6986	ng	97
23) 1,2-Dichlorobenzene	5.915	146	270857	49.9650	ng	97
24) Benzyl alcohol	5.888	108	167758	51.7948	ng	65
25) bis(2-chloroisopropyl)...	6.000	45	304950	52.7926	ng	92
26) 2-Methylphenol	5.974	108	231582	50.2399	ng	98
27) Acetophenone	6.102	105	270888	52.8907	ng	72
28) Hexachloroethane	6.188	117	101964	51.1787	ng	90
29) N-Nitroso-di-n-propyla...	6.102	70	157213	53.0080	ng	65
30) 3&4-Methylphenol	6.097	108	232355	50.5394	ng	98
33) Nitrobenzene	6.236	77	231663	52.1888	ng	76
34) Isophorone	6.423	82	435567	51.8972	ng	82
35) 2-Nitrophenol	6.487	139	136626	55.9581	ng	75
36) 2,4-Dimethylphenol	6.509	107	241401	52.4685	ng	88
37) Benzoic Acid	6.578	105	99764	40.4237	ng	82
38) bis(2-Chloroethoxy)met...	6.583	93	292652	52.4708	ng	97
39) 2,4-Dichlorophenol	6.664	162	217066	52.1483	ng	87
40) 1,2,4-Trichlorobenzene	6.733	180	234228	49.9018	ng	97
41) Naphthalene	6.792	128	770900	50.1919	ng	99
42) 4-Chloroaniline	6.829	127	297984	51.6896	ng	96
43) Hexachlorobutadiene	6.878	225	132792	49.4834	ng	97
44) Caprolactam	7.102	113	72097	46.3595	ng	66
45) 4-Chloro-3-methylphenol	7.188	107	208547	52.9819	ng	73
46) 2-Methylnaphthalene	7.322	142	517949	52.1201	ng	100
47) 1-Methylnaphthalene	7.402	142	500970	51.6691	ng	94
48) Methylnaphthalenes (To...	7.402	142	1013487m	103.7579	ng	
49) 1,1'-Biphenyl	7.691	154	548522	50.2044	ng	96
51) 1,2,4,5-Tetrachloroben...	7.455	216	219346	50.4993	ng	99
52) Hexachlorocyclopentadiene	7.445	237	124851	44.2832	ng	98
53) 2,4,6-Trichlorophenol	7.541	196	178818	59.7012	ng	100
54) 2,4,5-Trichlorophenol	7.573	196	155718	48.6055	ng	99
56) 2-Chloronaphthalene	7.717	162	465258	48.6324	ng	89
57) 1,4-Dimethylnaphthalene	7.995	156	327385	52.2365	ng	84
58) Dimethylnaphthalenes (...	7.995	156	327385	52.2365	ng	84
59) Diphenyl Ether	7.776	170	309482	49.8264	ng	72
60) 2-Nitroaniline	7.792	65	137709	49.0113	ng	45
61) Coumarin	7.979	146	167684	52.7707	ng	83
62) Acenaphthylene	8.070	152	700065	50.5387	ng	100
63) Dimethylphthalate	7.937	163	521012	50.7330	ng	98
64) 2,6-Dinitrotoluene	7.995	165	116836	49.0503	ng	54
65) Acenaphthene	8.225	153	471726	51.2160	ng	97

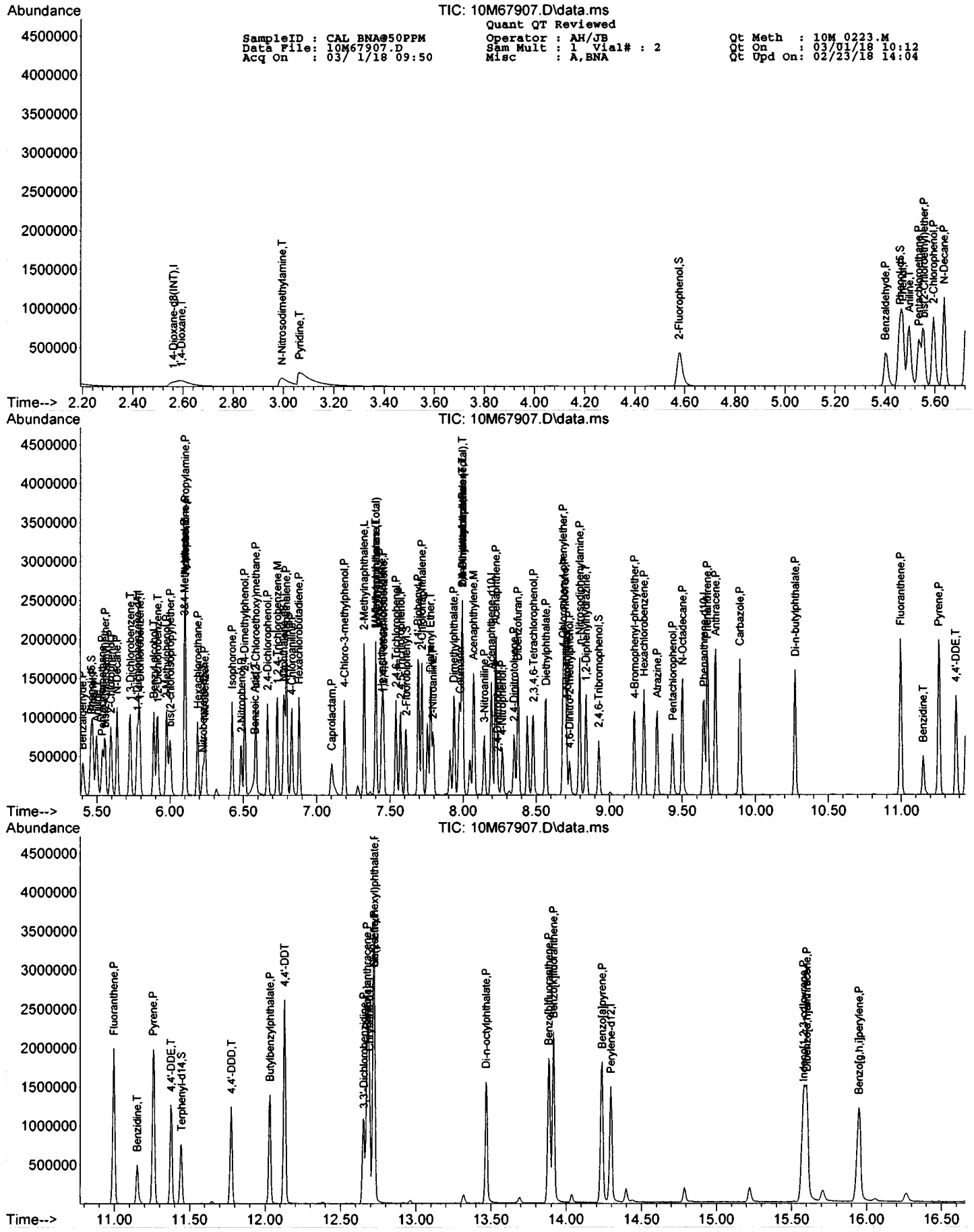
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 10M_0223.M
Data File: 10M67907.D Sam Mult : 1 Vial# : 2 Qt On : 03/01/18 10:12
Acq On : 03/ 1/18 09:50 Misc : A,BNA Qt Upd On: 02/23/18 14:04

Data Path : G:\GcMsData\2018\GCMS_10\Data\03-01-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.145	138	134564	49.1379	ng	69
67)	2,4-Dinitrophenol	8.236	184	49839	40.8781	ng	25
68)	Dibenzofuran	8.375	168	673090	48.5619	ng	81
69)	2,4-Dinitrotoluene	8.348	165	159584	48.0603	ng	57
70)	4-Nitrophenol	8.268	65	87111	49.1006	ng	96
71)	2,3,4,6-Tetrachlorophenol	8.482	232	148011	51.1877	ng	79
72)	Fluorene	8.696	166	519770	50.0211	ng	99
73)	4-Chlorophenyl-phenyle...	8.685	204	271952	50.1394	ng	76
74)	Diethylphthalate	8.568	149	487866	50.3185	ng	93
75)	4-Nitroaniline	8.707	138	145096	47.2668	ng	64
76)	Atrazine	9.327	200	137377	45.3450	ng	92
78)	4,6-Dinitro-2-methylph...	8.728	198	73738	42.7704	ng	76
79)	n-Nitrosodiphenylamine	8.798	169	459253	52.2263	ng	99
81)	1,2-Diphenylhydrazine	8.841	77	454695	51.4813	ng	74
82)	4-Bromophenyl-phenylether	9.172	248	166614	50.1030	ng	74
83)	Hexachlorobenzene	9.236	284	202335	51.3419	ng	54
84)	N-Octadecane	9.504	57	261746	49.8799	ng	74
85)	Pentachlorophenol	9.434	266	111423	49.3028	ng	96
86)	Phenanthrene	9.670	178	766307	50.7539	ng	100
87)	Anthracene	9.728	178	806767	53.0400	ng	99
88)	Carbazole	9.894	167	778786	55.1827	ng	97
89)	Di-n-butylphthalate	10.274	149	859829	52.2630	ng	96
90)	Fluoranthene	10.996	202	871572	54.7676	ng	94
92)	Pyrene	11.258	202	911657	51.7038	ng	92
93)	Benzidine	11.151	184	216562	30.3887	ng	89
95)	4,4'-DDE	11.376	246	163195	49.0909	ng	87
96)	4,4'-DDD	11.777	235	276137	51.3299	ng	93
97)	Butylbenzylphthalate	12.034	149	366121	47.5277	ng	65
98)	4,4'-DDT	12.130	235	236716	52.3619	ng	94
99)	3,3'-Dichlorobenzidine	12.654	252	285269	55.4368	ng	94
100)	Benzo[a]anthracene	12.676	228	902521	51.4218	ng	99
101)	Chrysene	12.724	228	848674	48.7336	ng	98
102)	bis(2-Ethylhexyl)phtha...	12.724	149	505373	51.0064	ng	88
104)	Di-n-octylphthalate	13.467	149	874325	49.4501	ng	100
105)	Benzo[b]fluoranthene	13.884	252	894698m	50.1240	ng	
106)	Benzo[k]fluoranthene	13.916	252	933243m	53.4819	ng	
107)	Benzo[a]pyrene	14.237	252	901746	52.6278	ng	91
108)	Indeno[1,2,3-cd]pyrene	15.580	276	1022398	51.3012	ng	80
109)	Dibenzo[a,h]anthracene	15.601	278	866090	51.5720	ng	88
110)	Benzo[g,h,i]perylene	15.949	276	879378	50.9839	ng	74

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M67907.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 10M67907.D
Acq On : 03/ 1/18 09:50
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 10M_0223.M
Qt On : 03/01/18 10:12
Qt Upd On: 02/23/18 14:04
1,4-Dioxane-d8(INT),I
1,4-Dioxane,I
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Phenol-d5,S
Aniline,T
2-Chlorophenol,P
N-Decane,P
Time--> 2.20 2.40 2.60 2.80 3.00 3.20 3.40 3.60 3.80 4.00 4.20 4.40 4.60 4.80 5.00 5.20 5.40 5.60
Abundance
TIC: 10M67907.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Methylnaphthalene,L
Isophorone,P
2-Nitrophenol,P
2,4-Dichlorophenol,P
Hexachlorobutadiene,P
2,4,6-Trichlorophenol,P
2-Fluorobiphenyl,S
2-Chloronaphthalene,P
2-Nitroaniline,P
Dimethylphthalate,P
Acenaphthylene,M
3-Nitroaniline,P
Acenaphthene,P
2,4-Dinitrophenol,P
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
4-Chlorophenyl-phenylether,P
Fluorene,P
4-Nitroaniline,P
4,6-Dinitro-2-methylphenol,P
1,2-Diphenylhydrazine,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene-d10,I
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Time--> 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00
Abundance
TIC: 10M67907.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
4,4'-DDE,T
Terphenyl-d14,S
4,4'-DDD,T
Butylbenzylphthalate,P
4,4'-DDT
Di-n-octylphthalate,P
Benzo[b]fluoranthene,P
Benzo[k]fluoranthene,P
Benzo[a]pyrene,P
Perylene-d12,I
Indeno[1,2,3-cd]pyrene,P
Dibenz[a,h]anthracene,P
Benzo[g,h,i]perylene,P
Time--> 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50 15.00 15.50 16.00 16.50

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 5M103127.D **Instrument:** GCMS 5

Cont Calibration Date/Time 3/1/2018 10:19:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
1,4-Dioxane-d8(INT)	1	0	I	2.64	40.00	40	**			0.000	0.00	
1,4-Dioxane	1	0		2.68	49.79	50	**		1.077	1.073	0.42	
Pyridine	1	0		3.16	50.57	50	**		3.454	3.493	1.14	
N-Nitrosodimethylamine	1	0		3.09	52.39	50	**		1.902	1.993	4.78	
2-Fluorophenol	1	0	S	4.64	51.50	50	**		2.654	2.733	2.99	
Benzaldehyde	1	0		5.46	40.99	50	20	0.01	1.852	1.589	18.03	
Aniline	1	0		5.56	49.06	50	**		4.185	4.616	1.88	
Pentachloroethane	1	0		5.60	52.60	50	**	0.05	0.937	0.986	5.21	
bis(2-Chloroethyl)ether	1	0		5.61	49.75	50	20	0.7	3.308	3.291	0.50	
Phenol-d5	1	0	S	5.52	52.48	50	**		3.358	3.524	4.97	
Phenol	1	0		5.53	52.14	50	20	0.8	4.305	4.489	4.27	
2-Chlorophenol	1	0		5.66	52.08	50	20	0.8	3.218	3.352	4.17	
N-Decane	1	0		5.69	52.13	50	**	0.05	3.300	3.440	4.26	
1,3-Dichlorobenzene	1	0		5.79	51.70	50	**		3.525	3.645	3.41	
1,4-Dichlorobenzene-d4	1	0	I	5.84	40.00	40	**			0.000	0.00	
1,4-Dichlorobenzene	1	0		5.85	48.53	50	20		1.669	1.620	2.93	
1,2-Dichlorobenzene	1	0		5.98	48.01	50	**		1.577	1.514	3.98	
Benzyl alcohol	1	0		5.95	53.39	50	**		0.882	0.942	6.78	
bis(2-chloroisopropyl)ether	1	0		6.06	47.66	50	20	0.01	2.325	2.216	4.67	
2-Methylphenol	1	0		6.04	45.19	50	20	0.7	1.459	1.318	9.62	
Acetophenone	1	0		6.16	49.04	50	20	0.01	1.819	1.784	1.91	
Hexachloroethane	1	0		6.25	49.02	50	20	0.3	0.635	0.622	1.95	
N-Nitroso-di-n-propylamine	1	0		6.16	48.76	50	20	0.5	1.118	1.090	2.48	
3&4-Methylphenol	1	0		6.16	48.09	50	20		1.457	1.401	3.82	
Naphthalene-d8	1	0	I	6.84	40.00	40	**			0.000	0.00	
Nitrobenzene-d5	1	0	S	6.29	24.65	25	**		0.161	0.159	1.39	
Nitrobenzene	1	0		6.30	50.07	50	20	0.2	0.434	0.435	0.13	
Isophorone	1	0		6.49	50.79	50	20	0.4	0.783	0.795	1.57	
2-Nitrophenol	1	0		6.55	49.56	50	20	0.1	0.206	0.205	0.88	
2,4-Dimethylphenol	1	0		6.58	50.43	50	20	0.2	0.418	0.421	0.86	
Benzoic Acid	1	0		6.65	37.38	50	**		0.252	0.200	25.24	
bis(2-Chloroethoxy)methane	1	0		6.65	49.42	50	20	0.3	0.458	0.453	1.16	
2,4-Dichlorophenol	1	0		6.73	50.42	50	20	0.2	0.332	0.334	0.84	
1,2,4-Trichlorobenzene	1	0		6.79	48.71	50	**		0.378	0.368	2.58	
Naphthalene	1	0		6.86	48.28	50	20	0.7	1.259	1.216	3.45	
4-Chloroaniline	1	0		6.90	53.55	50	20	0.01	0.348	0.450	7.10	
Hexachlorobutadiene	1	0		6.94	51.68	50	20	0.01	0.233	0.241	3.36	
Caprolactam	1	0		7.17	49.11	50	20	0.01	0.110	0.108	1.78	
4-Chloro-3-methylphenol	1	0		7.26	50.32	50	20	0.2	0.346	0.348	0.65	
2-Methylnaphthalene	1	0		7.39	48.97	50	**	0.4	0.807	0.790	2.07	
1-Methylnaphthalene	1	0		7.47	48.70	50	**	0.4	0.778	0.758	2.60	
Methylnaphthalenes	1	0		7.39	98.22	100	**			0.775	1.78	
1,1'-Biphenyl	1	0		7.77	49.70	50	20	0.01	0.880	0.875	0.60	
Acenaphthene-d10	1	0	I	8.27	40.00	40	**			0.000	0.00	
1,2,4,5-Tetrachlorobenzene	1	0		7.53	49.95	50	20	0.01	0.587	0.586	0.11	
Hexachlorocyclopentadiene	1	0		7.52	40.84	50	20	0.05	0.393	0.321	18.31	
2,4,6-Trichlorophenol	1	0		7.61	49.79	50	20	0.2	0.415	0.413	0.42	
2,4,5-Trichlorophenol	1	0		7.64	50.00	50	20	0.2	0.438	0.438	0.00	
2-Fluorobiphenyl	1	0	S	7.68	25.00	25	**		1.376	1.376	0.02	
2-Chloronaphthalene	1	0		7.79	48.84	50	20	0.8	1.241	1.212	2.33	
1,4-Dimethylnaphthalene	1	0		8.07	49.54	50	**		0.906	0.898	0.91	
Dimethylnaphthalenes	1	0		8.07	49.54	50	20			0.898	0.91	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 5M103127.D **Instrument:** GCMS 5

Cont Calibration Date/Time 3/1/2018 10:19:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
Diphenyl Ether	1	0		7.85	49.18	50	**		0.826	0.813	1.65	
2-Nitroaniline	1	0		7.87	51.85	50	20	0.01	0.453	0.470	3.69	
Coumarin	1	0		8.06	49.25		**		0.437			
Acenaphthylene	1	0		8.15	49.37	50	20	0.9	1.909	1.885	1.26	
Dimethylphthalate	1	0		8.01	49.56	50	20	0.01	1.446	1.433	0.89	
2,6-Dinitrotoluene	1	0		8.07	50.67	50	20	0.2	0.312	0.316	1.34	
Acenaphthene	1	0		8.31	48.93	50	20	0.9	1.265	1.238	2.15	
3-Nitroaniline	1	0		8.23	51.92	50	20	0.01	0.305	0.337	3.84	
2,4-Dinitrophenol	1	0		8.32	46.88	50	20	0.01	0.186	0.171	6.23	
Dibenzofuran	1	0		8.46	48.05	50	20	0.8	1.890	1.817	3.90	
2,4-Dinitrotoluene	1	0		8.43	49.74	50	20	0.2	0.410	0.408	0.53	
4-Nitrophenol	1	0		8.35	48.87	50	20	0.01	0.290	0.297	2.27	
2,3,4,6-Tetrachlorophenol	1	0		8.56	51.22	50	20	0.01	0.392	0.401	2.45	
Fluorene	1	0		8.78	49.70	50	20	0.9	1.483	1.474	0.59	
4-Chlorophenyl-phenylether	1	0		8.77	50.31	50	20	0.4	0.742	0.747	0.62	
Diethylphthalate	1	0		8.64	50.66	50	20	0.01	1.440	1.459	1.32	
4-Nitroaniline	1	0		8.79	51.42	50	20	0.01	0.377	0.388	2.84	
Atrazine	1	0		9.41	50.50	50	20	0.01	0.391	0.398	1.00	
Phenanthrene-d10	1	0	I	9.74	40.00	40	**			0.000	0.00	
4,6-Dinitro-2-methylphenol	1	0		8.81	44.54	50	20	0.01	0.132	0.120	10.93	
n-Nitrosodiphenylamine	1	0		8.88	48.45	50	20	0.01	0.714	0.692	3.10	
2,4,6-Tribromophenol	1	0	S	9.02	49.91	50	**		0.104	0.104	0.19	
1,2-Diphenylhydrazine	1	0		8.93	45.84	50	**		0.878	0.805	8.32	
4-Bromophenyl-phenylether	1	0		9.26	49.64	50	20	0.1	0.246	0.244	0.72	
Hexachlorobenzene	1	0		9.33	49.30	50	20	0.1	0.258	0.254	1.40	
N-Octadecane	1	0		9.58	49.70	50	**	0.05	0.473	0.471	0.59	
Pentachlorophenol	1	0		9.52	46.49	50	20	0.05	0.156	0.156	7.02	
Phenanthrene	1	0		9.76	49.00	50	20	0.7	1.212	1.187	2.00	
Anthracene	1	0		9.82	48.41	50	20	0.7	1.230	1.191	3.19	
Carbazole	1	0		9.99	49.32	50	20	0.01	1.125	1.110	1.36	
Di-n-butylphthalate	1	0		10.36	49.70	50	20	0.01	1.325	1.317	0.61	
Fluoranthene	1	0		11.10	49.79	50	20	0.6	1.410	1.404	0.42	
Chrysene-d12	1	0	I	12.80	40.00	40	**			0.000	0.00	
Pyrene	1	0		11.36	48.65	50	20	0.6	1.215	1.182	2.70	
Benzidine	1	0		11.25	31.33	50	**		0.425	0.314	37.33	
Terphenyl-d14	1	0	S	11.54	24.41	25	**		0.642	0.627	2.35	
4,4'-DDE	1	0		11.47	47.83		**		0.224			
4,4'-DDD	1	0		11.88	48.92		**		0.365			
Butylbenzylphthalate	1	0		12.13	46.40	50	20	0.01	0.524	0.487	7.19	
4,4'-DDT	1	0		12.23	46.27		**		0.323			
3,3'-Dichlorobenzidine	1	0		12.76	48.45	50	20	0.01	0.294	0.331	3.10	
Benzo[a]anthracene	1	0		12.78	48.68	50	20	0.8	1.202	1.171	2.64	
Chrysene	1	0		12.83	47.53	50	20	0.7	1.118	1.063	4.93	
bis(2-Ethylhexyl)phthalate	1	0		12.82	45.54	50	20	0.01	0.718	0.654	8.92	
Perylene-d12	1	0	I	14.42	40.00	40	**			0.000	0.00	
Di-n-octylphthalate	1	0		13.57	45.08	50	20	0.01	1.312	1.183	9.85	
Benzo[b]fluoranthene	1	0		14.00	53.19	50	20	0.7	1.255	1.336	6.39	
Benzo[k]fluoranthene	1	0		14.03	47.66	50	20	0.7	1.205	1.148	4.68	
Benzo[a]pyrene	1	0		14.36	49.46	50	20	0.7	1.193	1.180	1.08	
Indeno[1,2,3-cd]pyrene	1	0		15.75	49.19	50	20	0.5	1.334	1.312	1.62	
Dibenzo[a,h]anthracene	1	0		15.77	49.38	50	20	0.4	1.117	1.104	1.24	
Benzo[g,h,i]perylene	1	0		16.13	47.63	50	20	0.5	1.151	1.096	4.73	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Form7

Continuing Calibration

Calibration Name: CAL BNA@50PPM **Data File:** 5M103127.D **Instrument:** GCMS 5

Cont Calibration Date/Time 3/1/2018 10:19:00 A Method: EPA 8270D

TxtCompd:	Col#	Multi Num	Type	RT	Conc	Conc Exp	Lo Lim	MIN RF	Initial RF	RF	%Diff	Flag
2,4 Diaminotoluene	1	100		0.00	0.00	50	**			0.000	100.00	
2,2'-oxybis-(1-Chloropropane)	1	100		0.00	0.00	50	**			0.000	100.00	
4-Methylphenol	1	100		0.00	0.00	50	**	0.6		0.000	100.00	
1,4-Dioxane-d8-Surro	1	100		0.00	0.00	40	**			0.000	100.00	
Diaminotoluene Dihydrochloride	1	100		0.00	0.00	50	**			0.000	100.00	
Dimethylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.906	0.000	100.00	
Endrin	1	100		0.00	0.00	50	**			0.000	100.00	
gamma-BHC	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor	1	100		0.00	0.00	10	**			0.000	100.00	
Heptachlor epoxide	1	100		0.00	0.00	10	**			0.000	100.00	
Methoxychlor	1	100		0.00	0.00	10	**			0.000	100.00	
Methylnaphthalenes (Total)	1	100		0.00	0.00	50	**		0.789	0.000	100.00	
Toluene Diisocyanate	1	100		0.00	0.00	50	**			0.000	100.00	
1,4-Dioxane-d8	1	100		0.00	0.00	40	**			0.000	100.00	

S-Surrogate Compound I-Internal Standard Compound

N/O or N/Q - Not applicable for this run C1-Compound %Diff exceeds limits ** - No limit specified in method

Note: 8260/8270 limits are compared against the %DIFF/R.F. 625 limits are compared against the %DIFF.

624 limits are compared against the concentration found. 524.2 limits are compared against the %DIFF

Sample ID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 5M_0225.M
Data File: 5M103127.D Sam Mult : 1 Vial# : 2 Qt On : 03/01/18 10:39
Acq On : 03/ 1/18 10:19 Misc : A,BNA Qt Upd On: 02/23/18 14:01

Data Path : G:\GcMsData\2018\GCMS_5\Data\03-01-18\
Qt Path : G:\GCMSDATA\2018\GCMS_5\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.644	96	32837	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.838	152	76189	40.00	ng	0.00
31) Naphthalene-d8	6.843	136	277561	40.00	ng	0.00
50) Acenaphthene-d10	8.274	164	169476	40.00	ng	0.00
77) Phenanthrene-d10	9.738	188	309789	40.00	ng	0.00
91) Chrysene-d12	12.799	240	370476	40.00	ng	0.00
103) Perylene-d12	14.423	264	328723	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.642	112	112179	51.50	ng	-0.01
Spiked Amount 100.000			Recovery = 51.50%			
16) Phenol-d5	5.518	99	144665	52.48	ng	0.00
Spiked Amount 100.000			Recovery = 52.48%			
32) Nitrobenzene-d5	6.287	128	27598	24.65	ng	0.00
Spiked Amount 50.000			Recovery = 49.30%			
55) 2-Fluorobiphenyl	7.681	172	145772	25.00	ng	0.00
Spiked Amount 50.000			Recovery = 50.00%			
80) 2,4,6-Tribromophenol	9.017	330	40368	49.91	ng	0.00
Spiked Amount 100.000			Recovery = 49.91%			
94) Terphenyl-d14	11.544	244	145190	24.41	ng	0.00
Spiked Amount 50.000			Recovery = 48.82%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.676	88	44027	49.7886	ng	86
9) Pyridine	3.162	79	143395	50.5680	ng	86
10) N-Nitrosodimethylamine	3.087	74	81822	52.3909	ng	88
12) Benzaldehyde	5.464	77	65206	40.9860	ng	86
13) Aniline	5.561	93	189458m	49.0582	ng	
14) Pentachloroethane	5.598	117	40459	52.6034	ng	67
15) bis(2-Chloroethyl)ether	5.614	93	135085	49.7488	ng	85
17) Phenol	5.534	94	184266	52.1372	ng	92
18) 2-Chlorophenol	5.657	128	137583	52.0835	ng	85
19) N-Decane	5.694	57	141214m	52.1286	ng	
20) 1,3-Dichlorobenzene	5.790	146	149630	51.7046	ng	96
22) 1,4-Dichlorobenzene	5.854	146	154273	48.5333	ng	98
23) 1,2-Dichlorobenzene	5.977	146	144179	48.0106	ng	99
24) Benzyl alcohol	5.951	108	89691	53.3889	ng	83
25) bis(2-chloroisopropyl)...	6.063	45	211080	47.6634	ng	94
26) 2-Methylphenol	6.036	108	125553	45.1909	ng	99
27) Acetophenone	6.164	105	169923	49.0440	ng	89
28) Hexachloroethane	6.250	117	59260	49.0248	ng	92
29) N-Nitroso-di-n-propyla...	6.164	70	103850	48.7605	ng	82
30) 3&4-Methylphenol	6.164	108	133424	48.0885	ng	97
33) Nitrobenzene	6.303	77	150757	50.0661	ng	85
34) Isophorone	6.490	82	275896	50.7860	ng	87
35) 2-Nitrophenol	6.549	139	70955	49.5614	ng	93
36) 2,4-Dimethylphenol	6.576	107	146223	50.4280	ng	98
37) Benzoic Acid	6.645	105	69329	37.3807	ng	92
38) bis(2-Chloroethoxy)met...	6.650	93	157124	49.4184	ng	97
39) 2,4-Dichlorophenol	6.731	162	116006	50.4217	ng	87
40) 1,2,4-Trichlorobenzene	6.795	180	127721	48.7082	ng	98
41) Naphthalene	6.859	128	421919	48.2766	ng	100
42) 4-Chloroaniline	6.896	127	155990	53.5509	ng	90
43) Hexachlorobutadiene	6.944	225	83542	51.6817	ng	94
44) Caprolactam	7.174	113	37592	49.1097	ng	72
45) 4-Chloro-3-methylphenol	7.259	107	120869	50.3237	ng	84
46) 2-Methylnaphthalene	7.393	142	274120	48.9673	ng	98
47) 1-Methylnaphthalene	7.473	142	263053	48.6991	ng	92
48) Methylnaphthalenes (To...	7.393	142	537625m	98.2199	ng	
49) 1,1'-Biphenyl	7.767	154	303571	49.6992	ng	95
51) 1,2,4,5-Tetrachloroben...	7.527	216	124125	49.9452	ng	97
52) Hexachlorocyclopentadiene	7.516	237	67969	40.8439	ng	99
53) 2,4,6-Trichlorophenol	7.612	196	87517	49.7908	ng	99
54) 2,4,5-Trichlorophenol	7.644	196	92814	50.0011	ng	98
56) 2-Chloronaphthalene	7.794	162	256735	48.8369	ng	92
57) 1,4-Dimethylnaphthalene	8.071	156	190202	49.5445	ng	90
58) Dimethylnaphthalenes (...	8.071	156	190202	49.5445	ng	90
59) Diphenyl Ether	7.852	170	172187	49.1767	ng	84
60) 2-Nitroaniline	7.874	65	99497	51.8458	ng	65
61) Coumarin	8.061	146	91135	49.2546	ng	52
62) Acenaphthylene	8.152	152	399327	49.3702	ng	100
63) Dimethylphthalate	8.013	163	303622	49.5562	ng	98
64) 2,6-Dinitrotoluene	8.071	165	67029	50.6701	ng	78
65) Acenaphthene	8.306	153	262256	48.9253	ng	98

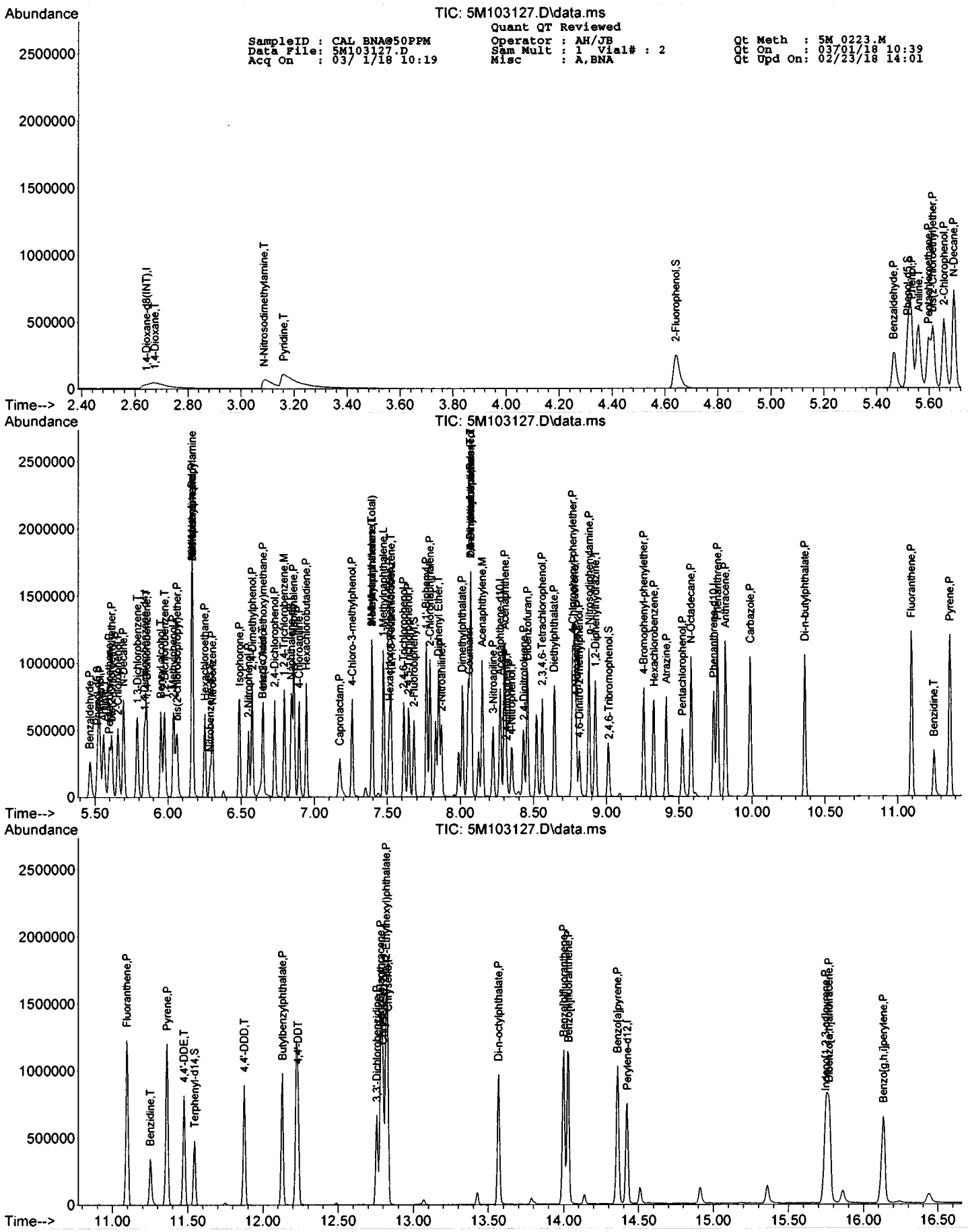
Quantitation Report (QT Reviewed)

SampleID : CAL BNA@50PPM Operator : AH/JB Qt Meth : 5M_0223.M
Data File: 5M103127.D Sam Mult : 1 Vial# : 2 Qt On : 03/01/18 10:39
Acq On : 03/ 1/18 10:19 Misc : A,BNA Qt Upd On: 02/23/18 14:01

Data Path : G:\GcMsData\2018\GCMS_5\Data\03-01-18\
Qt Path : G:\GCMSDATA\2018\GCMS_5\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.226	138	71352	51.9204	ng	82
67)	2,4-Dinitrophenol	8.317	184	36262	46.8834	ng	43
68)	Dibenzofuran	8.461	168	384826	48.0498	ng	86
69)	2,4-Dinitrotoluene	8.435	165	86413	49.7369	ng	64
70)	4-Nitrophenol	8.349	65	62814	48.8657	ng	81
71)	2,3,4,6-Tetrachlorophenol	8.563	232	85041	51.2225	ng	84
72)	Fluorene	8.782	166	312257	49.7038	ng	99
73)	4-Chlorophenyl-phenyle...	8.771	204	158226	50.3076	ng	83
74)	Diethylphthalate	8.643	149	309173	50.6619	ng	98
75)	4-Nitroaniline	8.793	138	82196	51.4192	ng	89
76)	Atrazine	9.412	200	84407	50.4982	ng	94
78)	4,6-Dinitro-2-methylph...	8.814	198	46444	44.5351	ng	52
79)	n-Nitrosodiphenylamine	8.883	169	267782	48.4522	ng	98
81)	1,2-Diphenylhydrazine	8.926	77	311837	45.8402	ng	83
82)	4-Bromophenyl-phenylether	9.257	248	94485	49.6418	ng	85
83)	Hexachlorobenzene	9.327	284	98517	49.3022	ng	62
84)	N-Octadecane	9.583	57	182236	49.7033	ng	86
85)	Pentachlorophenol	9.525	266	60457	46.4907	ng	96
86)	Phenanthrene	9.765	178	459755	48.9989	ng	98
87)	Anthracene	9.818	178	461201	48.4057	ng	100
88)	Carbazole	9.989	167	429647	49.3201	ng	99
89)	Di-n-butylphthalate	10.363	149	509939	49.6970	ng	97
90)	Fluoranthene	11.095	202	543833	49.7899	ng	88
92)	Pyrene	11.362	202	547497	48.6511	ng	82
93)	Benzidine	11.250	184	145310	31.3326	ng	85
95)	4,4'-DDE	11.474	246	99035	47.8341	ng	95
96)	4,4'-DDD	11.875	235	165228	48.9184	ng	95
97)	Butylbenzylphthalate	12.132	149	225356	46.4046	ng	73
98)	4,4'-DDT	12.233	235	138395	46.2712	ng	97
99)	3,3'-Dichlorobenzidine	12.757	252	153462	48.4497	ng	95
100)	Benzo[a]anthracene	12.783	228	542135	48.6812	ng	99
101)	Chrysene	12.831	228	492426	47.5344	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.821	149	302654	45.5385	ng	95
104)	Di-n-octylphthalate	13.569	149	485916	45.0754	ng	100
105)	Benzo[b]fluoranthene	14.001	252	548810	53.1947	ng	91
106)	Benzo[k]fluoranthene	14.033	252	471861	47.6577	ng	90
107)	Benzo[a]pyrene	14.359	252	484700	49.4576	ng	89
108)	Indeno[1,2,3-cd]pyrene	15.748	276	539143	49.1898	ng	73
109)	Dibenzo[a,h]anthracene	15.770	278	453442	49.3808	ng	84
110)	Benzo[g,h,i]perylene	16.133	276	450398	47.6334	ng	71

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M103127.D\data.ms
Quant QT Reviewed
SampleID : CAL BNA@50PPM
Data File: 5M103127.D
Acq On : 03/ 1/18 10:19
Operator : AH/JB
Sam Mult : 1 Vial# : 2
Misc : A,BNA
Qt Meth : 5M_0223.M
Qt On : 03701/18 10:39
Qt Upd On: 02/23/18 14:01
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
2-Chlorophenol,P
N-Decane,P
Time-->

GC/MS Base Neutral/Acid Extractable Data
Raw QC Data

Form 5

Tune Name: CAL DFTPP **Data File:** 10M67809.D
Instrument: GCMS 10 **Analysis Date:** 02/23/18 08:45
Method: EPA 8270D

Tune Scan/Time Range: Average of 9.942 to 9.948 min

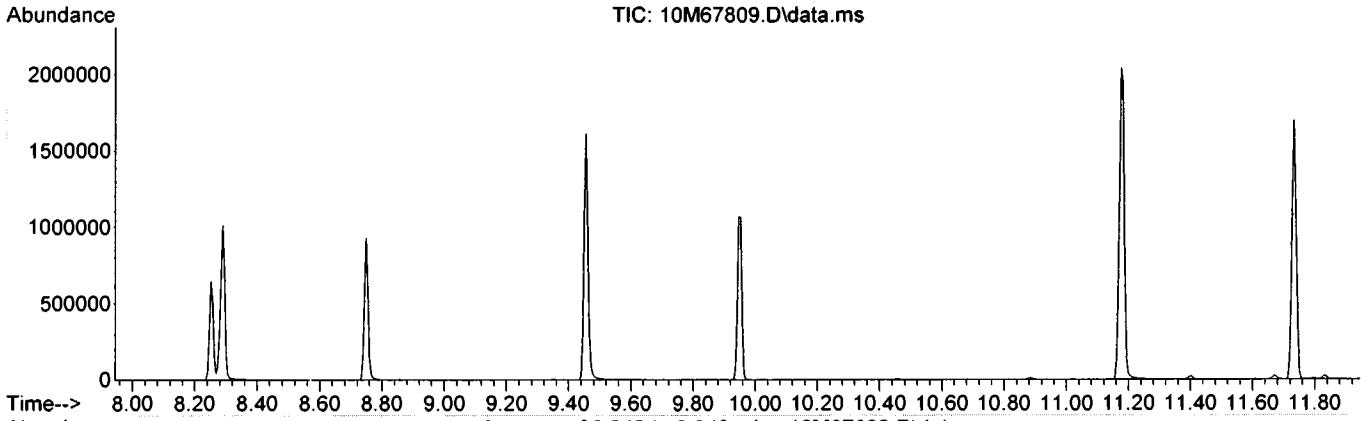
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	34.1	33968	PASS
68	69	0.00	2	1.9	719	PASS
69	198	0.00	100	37.7	37580	PASS
70	69	0.00	2	0.3	120	PASS
127	198	40	60	46.2	46028	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	99660	PASS
199	198	5	9	6.9	6901	PASS
275	198	10	30	24.8	24764	PASS
365	198	1	100	2.4	2408	PASS
441	443	0.01	100	68.2	7876	PASS
442	198	40	100	55.4	55224	PASS
443	442	17	23	20.9	11544	PASS

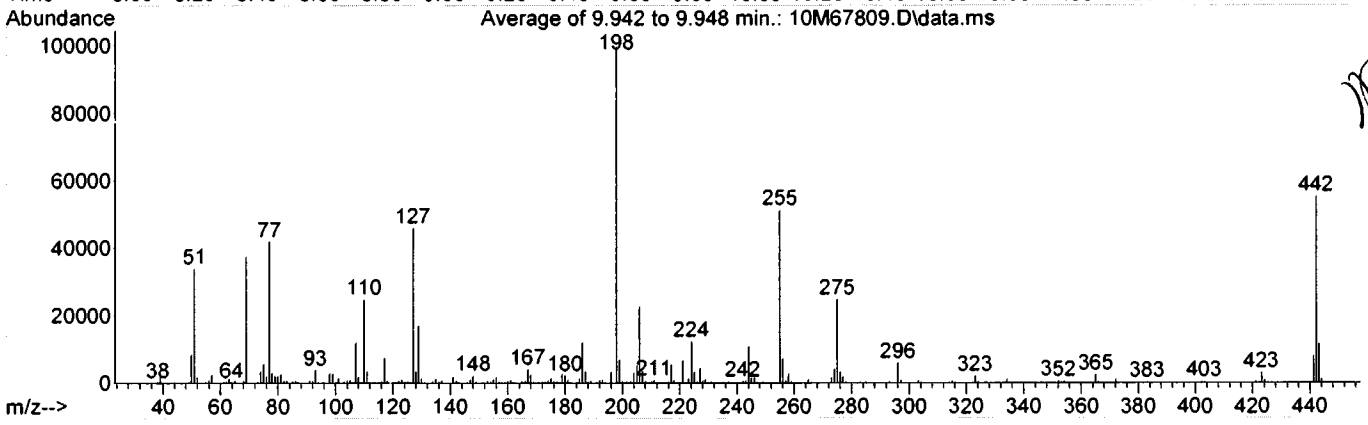
Data File	Sample Number	Analysis Date:
10M67810.D	CAL BNA@10PPM	02/23/18 09:15
10M67811.D	CAL BNA@10PPM	02/23/18 10:05
10M67812.D	CAL BNA@2PPM	02/23/18 10:27
10M67813.D	CAL BNA@196PP	02/23/18 10:49
10M67814.D	CAL BNA@160PP	02/23/18 11:11
10M67815.D	CAL BNA@120PP	02/23/18 11:33
10M67816.D	CAL BNA@80PPM	02/23/18 11:55
10M67817.D	CAL BNA@20PPM	02/23/18 12:17
10M67818.D	CAL BNA@.5PPM	02/23/18 12:40
10M67819.D	CAL BNA@50PPM	02/23/18 13:02
10M67820.D	ICV BNA@50PPM	02/23/18 13:24
10M67821.D	AD02489-021(T)	02/23/18 13:48
10M67822.D	AD02488-013(T)	02/23/18 14:10
10M67823.D	AD02488-005(T)	02/23/18 14:32
10M67824.D	AD02309-015(T)	02/23/18 14:54
10M67825.D	EF-SPLP V-273224	02/23/18 15:16
10M67826.D	EF-SPLP V-273224	02/23/18 15:39

Data Path : G:\GcMsData\2018\GCMS_10\Data\02-23-18\
Data File : 10M67809.D
Acq On : 23 Feb 2018 8:45
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2018\GCMS_10\MethodQt\10M_0123.M
Title : @GCMS_10,mg,625,8270
Last Update : Tue Jan 23 15:31:44 2018





Spectrum Information: Average of 9.942 to 9.948 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	34.1	33968	PASS
68	69	0.00	2	1.9	719	PASS
69	198	0.00	100	37.7	37580	PASS
70	69	0.00	2	0.3	120	PASS
127	198	40	60	46.2	46028	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	99660	PASS
199	198	5	9	6.9	6901	PASS
275	198	10	30	24.8	24764	PASS
365	198	1	100	2.4	2408	PASS
441	443	0.01	100	68.2	7876	PASS
442	198	40	100	55.4	55224	PASS
443	442	17	23	20.9	11544	PASS

Form 5

Tune Name: CAL DFTPP
Instrument: GCMS 5
Data File: 5M102988.D
Analysis Date: 02/23/18 08:50
Method: EPA 8270D

Tune Scan/Time Range: Scan 1429

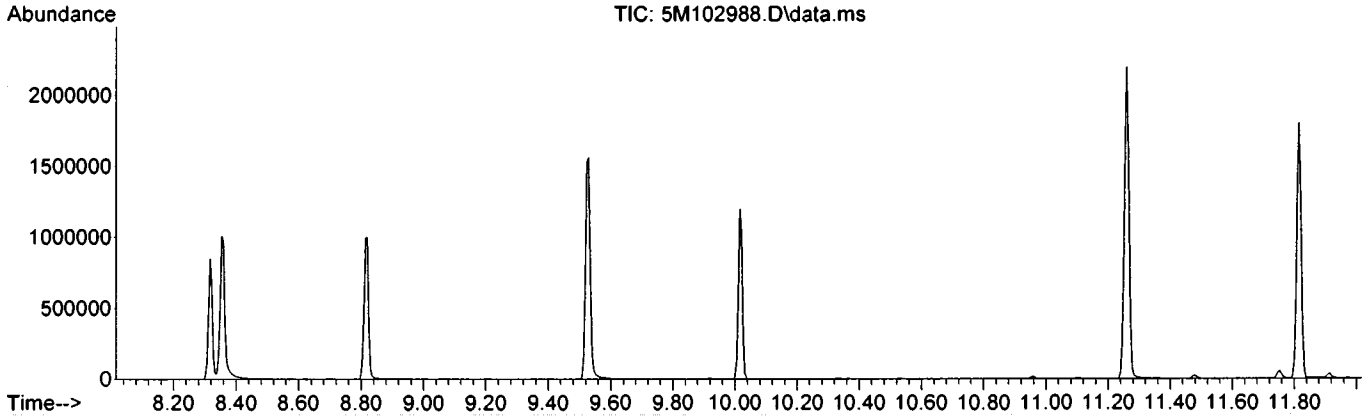
Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	41.7	58624	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.4	56776	PASS
70	69	0.00	2	0.6	343	PASS
127	198	40	60	50.9	71512	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	140608	PASS
199	198	5	9	6.5	9172	PASS
275	198	10	30	24.4	34328	PASS
365	198	1	100	2.6	3700	PASS
441	443	0.01	100	82.3	11750	PASS
442	198	40	100	53.9	75800	PASS
443	442	17	23	18.8	14272	PASS

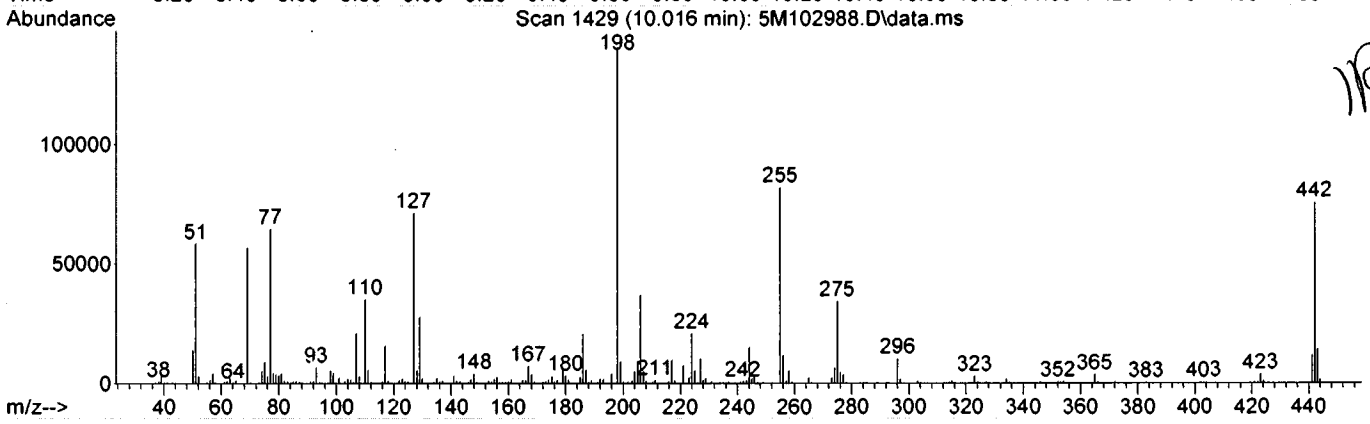
Data File	Sample Number	Analysis Date:
5M102989.D	CAL BNA@10PPM	02/23/18 09:19
5M102990.D	CAL BNA@2PPM	02/23/18 09:46
5M102991.D	CAL BNA@196PP	02/23/18 10:09
5M102992.D	CAL BNA@160PP	02/23/18 10:33
5M102993.D	CAL BNA@120PP	02/23/18 10:56
5M102994.D	CAL BNA@80PPM	02/23/18 11:19
5M102995.D	CAL BNA@20PPM	02/23/18 11:43
5M102996.D	CAL BNA@.5PPM	02/23/18 12:06
5M102997.D	CAL BNA@50PPM	02/23/18 12:30
5M102998.D	ICV BNA@50PPM	02/23/18 12:55

Data Path : G:\GcMsData\2018\GCMS_5\Data\02-23-18\
Data File : 5M102988.D
Acq On : 23 Feb 2018 8:50
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2018\GCMS_5\MethodQt\5M_0209.M
Title : @GCMS_5,mg,625,8270
Last Update : Fri Feb 09 16:17:17 2018





Spectrum Information: Scan 1429

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	41.7	58624	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	40.4	56776	PASS
70	69	0.00	2	0.6	343	PASS
127	198	40	60	50.9	71512	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	140608	PASS
199	198	5	9	6.5	9172	PASS
275	198	10	30	24.4	34328	PASS
365	198	1	100	2.6	3700	PASS
441	443	0.01	100	82.3	11750	PASS
442	198	40	100	53.9	75800	PASS
443	442	17	23	18.8	14272	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 10M67906.D
Instrument: GCMS 10 **Analysis Date:** 03/01/18 09:28
Method: EPA 8270D

Tune Scan/Time Range: Average of 9.921 to 9.926 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	31.9	41348	PASS
68	69	0.00	2	2.0	900	PASS
69	198	0.00	100	35.5	45968	PASS
70	69	0.00	2	0.6	281	PASS
127	198	40	60	45.2	58516	PASS
197	198	0.00	1	0.3	347	PASS
198	198	100	100	100.0	129424	PASS
199	198	5	9	7.0	9005	PASS
275	198	10	30	25.2	32640	PASS
365	198	1	100	2.6	3419	PASS
441	443	0.01	100	70.3	12276	PASS
442	198	40	100	64.8	83860	PASS
443	442	17	23	20.8	17454	PASS

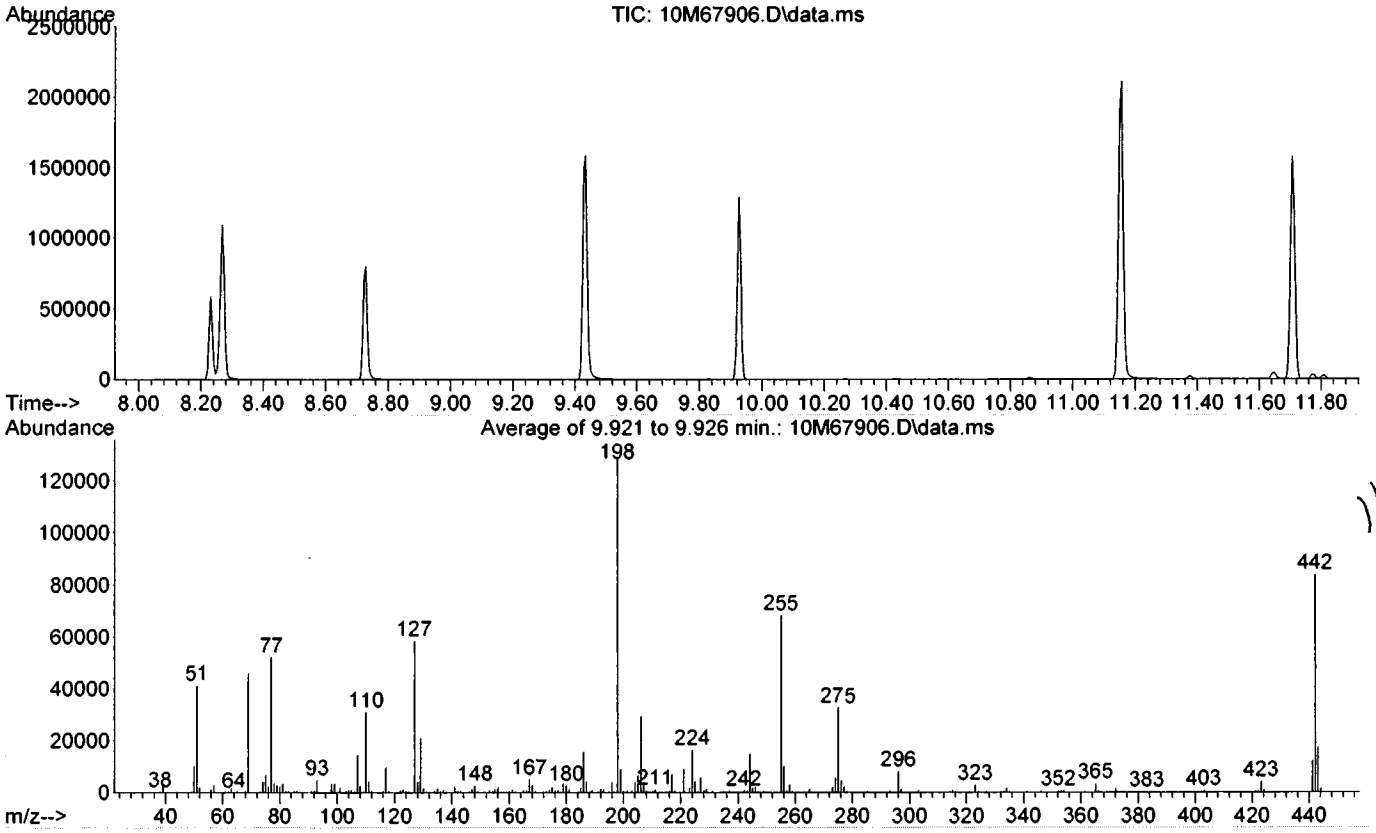
Data File	Sample Number	Analysis Date:
10M67907.D	CAL BNA@50PPM	03/01/18 09:50
10M67908.D	AD02551-003(T)	03/01/18 12:24
10M67909.D	AD02551-008(T)	03/01/18 12:46
10M67910.D	AD02552-022(T)	03/01/18 13:08
10M67911.D	AD02552-037(T)	03/01/18 13:30
10M67912.D	WMB66108(MS)	03/01/18 13:52
10M67913.D	WMB66109(MS)	03/01/18 14:14
10M67914.D	WMB66108	03/01/18 14:37
10M67915.D	WMB66109	03/01/18 14:59
10M67916.D	AD02667-001(T)	03/01/18 15:21
10M67917.D	AD02667-001(T)(M	03/01/18 15:43
10M67918.D	AD02667-001(T)(M	03/01/18 16:05
10M67919.D	AD02815-001	03/01/18 16:27
10M67920.D	AD02815-001(MS)	03/01/18 16:49
10M67921.D	AD02815-001(MSD	03/01/18 17:11
10M67922.D	AD02792-001	03/01/18 17:34
10M67923.D	AD02792-002	03/01/18 17:56
10M67924.D	AD02843-003	03/01/18 18:18
10M67925.D	AD02826-011	03/01/18 18:40
10M67926.D	AD02838-001	03/01/18 19:02
10M67927.D	AD02838-002	03/01/18 19:24
10M67928.D	AD02838-003	03/01/18 19:46
10M67929.D	AD02815-002	03/01/18 20:08
10M67930.D	AD02815-003	03/01/18 20:30
10M67931.D	AD02815-004	03/01/18 20:52
10M67932.D	AD02815-005	03/01/18 21:15
10M67933.D	AD02815-006	03/01/18 21:37

8022605 0256

Data Path : G:\GcMsData\2018\GCMS_10\Data\03-01-18\
Data File : 10M67906.D
Acq On : 1 Mar 2018 9:28
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: PEST1.E

Method : G:\GCMSDATA\2018\GCMS_10\METHODQT\10m_EVAL.M
Title : @GCMS_10
Last Update : Mon Feb 26 11:07:51 2018



Spectrum Information: Average of 9.921 to 9.926 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	31.9	41348	PASS
68	69	0.00	2	2.0	900	PASS
69	198	0.00	100	35.5	45968	PASS
70	69	0.00	2	0.6	281	PASS
127	198	40	60	45.2	58516	PASS
197	198	0.00	1	0.3	347	PASS
198	198	100	100	100.0	129424	PASS
199	198	5	9	7.0	9005	PASS
275	198	10	30	25.2	32640	PASS
365	198	1	100	2.6	3419	PASS
441	443	0.01	100	70.3	12276	PASS
442	198	40	100	64.8	83860	PASS
443	442	17	23	20.8	17454	PASS

Form 5

Tune Name: CAL DFTPP **Data File:** 5M103126.D
Instrument: GCMS 5 **Analysis Date:** 03/01/18 09:55
Method: EPA 8270D

Tune Scan/Time Range: Average of 10.005 to 10.011 min

Tgt Mass	Rel Mass	Lo Lim	Hi Lim	Rel Abund	Raw Abund	Pass/ Fail
51	198	30	60	47.0	34516	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	47.0	34516	PASS
70	69	0.00	2	0.4	125	PASS
127	198	40	60	53.4	39188	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	73432	PASS
199	198	5	9	6.9	5064	PASS
275	198	10	30	23.4	17149	PASS
365	198	1	100	2.2	1591	PASS
441	443	0.01	100	66.8	4551	PASS
442	198	40	100	42.7	31368	PASS
443	442	17	23	21.7	6817	PASS

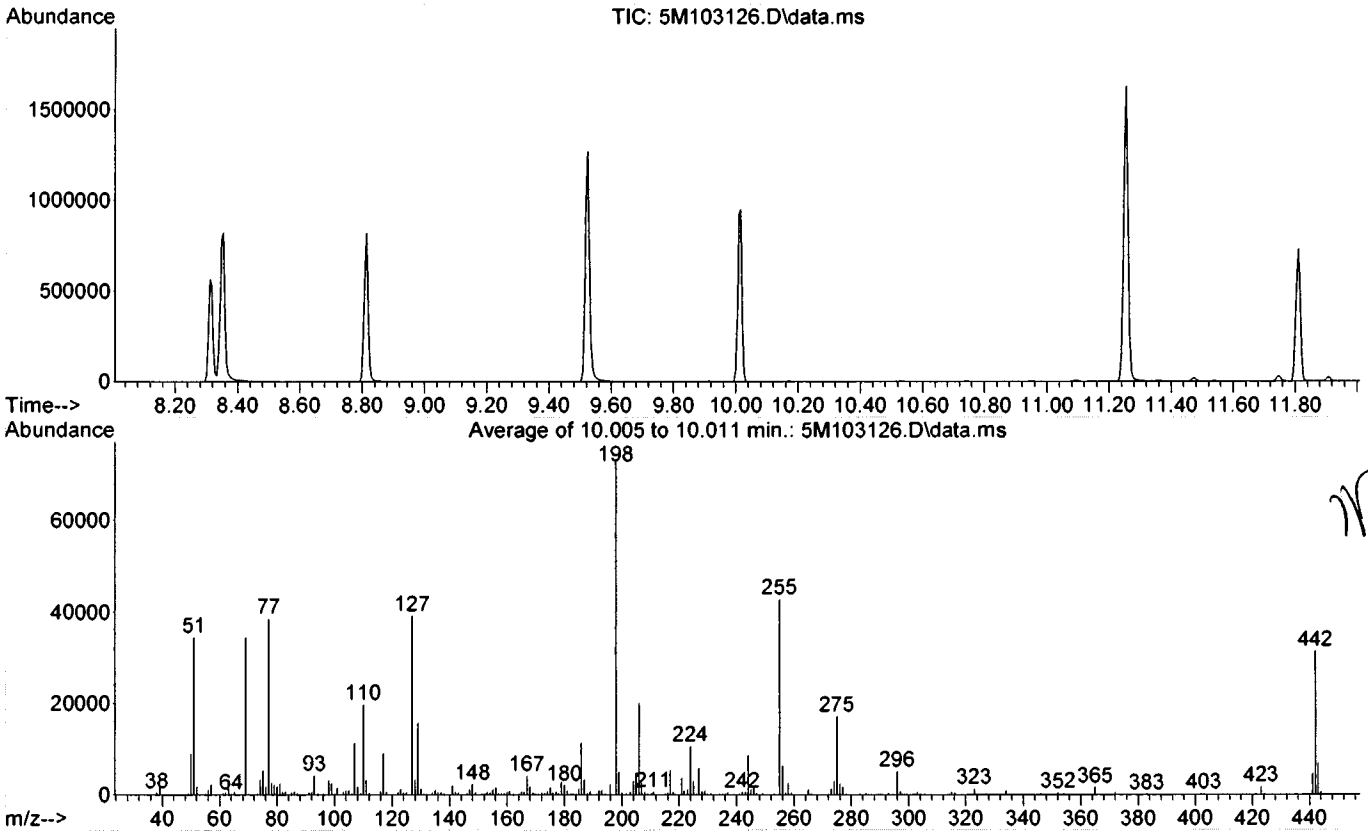
Data File	Sample Number	Analysis Date:
5M103127.D	CAL BNA@50PPM	03/01/18 10:19
5M103128.D	WMB66100	03/01/18 10:45
5M103129.D	EF-SPLP V-273224	03/01/18 11:12
5M103130.D	EF-SPLP V-273224	03/01/18 11:35
5M103131.D	EF-SPLP V-273224	03/01/18 11:58
5M103132.D	EF-SPLP V-273224	03/01/18 12:21
5M103133.D	EF-SPLP V-273224	03/01/18 12:45
5M103134.D	AD02534-066(T)	03/01/18 13:08
5M103135.D	AD02534-068(T)	03/01/18 13:31
5M103136.D	AD02534-073(T)	03/01/18 13:54
5M103137.D	AD02688-004(R)	03/01/18 14:17
5M103138.D	AD02535-003(T)	03/01/18 14:40
5M103139.D	WMB66108	03/01/18 15:04
5M103140.D	WMB66109	03/01/18 15:27
5M103141.D	AD02833-001	03/01/18 16:03
5M103142.D	AD02799-002	03/01/18 16:26
5M103143.D	AD02837-001	03/01/18 16:50
5M103144.D	AD02837-002	03/01/18 17:13
5M103145.D	AD02837-004	03/01/18 17:36
5M103146.D	AD02837-003	03/01/18 17:59
5M103147.D	AD02820-001	03/01/18 18:22
5M103148.D	AD02791-001	03/01/18 18:46
5M103149.D	AD02791-002	03/01/18 19:09
5M103150.D	AD02791-003	03/01/18 19:32
5M103151.D	AD02812-001	03/01/18 19:56
5M103152.D	AD02834-001	03/01/18 20:19
5M103153.D	AD02834-002	03/01/18 20:43

8022605 0258

Data Path : G:\GcMsData\2018\GCMS_5\Data\03-01-18\
Data File : 5M103126.D
Acq On : 1 Mar 2018 9:55
Operator : AH/JB
Sample : CAL DFTPP
Misc : A,BNA
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : G:\GCMSDATA\2018\GCMS_5\MethodQt\5M_0223.M
Title : @GCMS_5,mg,625,8270
Last Update : Fri Feb 23 12:49:43 2018



Spectrum Information: Average of 10.005 to 10.011 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.0	34516	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	47.0	34516	PASS
70	69	0.00	2	0.4	125	PASS
127	198	40	60	53.4	39188	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	73432	PASS
199	198	5	9	6.9	5064	PASS
275	198	10	30	23.4	17149	PASS
365	198	1	100	2.2	1591	PASS
441	443	0.01	100	66.8	4551	PASS
442	198	40	100	42.7	31368	PASS
443	442	17	23	21.7	6817	PASS

Form1

ORGANICS SEMIVOLATILE REPORT

Sample Number: WMB66108
Client Id:
Data File: 5M103139.D
Analysis Date: 03/01/18 15:04
Date Rec/Extracted: NA-03/01/18
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8270D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
92-52-4	1,1'-Biphenyl	2.0	U	205-99-2	Benzo[b]fluoranthene	2.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	2.0	U	191-24-2	Benzo[g,h,i]perylene	0.50	U
58-90-2	2,3,4,6-Tetrachlorophenol	2.0	U	207-08-9	Benzo[k]fluoranthene	2.0	U
95-95-4	2,4,5-Trichlorophenol	2.0	U	111-91-1	bis(2-Chloroethoxy)methan	2.0	U
88-06-2	2,4,6-Trichlorophenol	2.0	U	111-44-4	bis(2-Chloroethyl)ether	0.50	U
120-83-2	2,4-Dichlorophenol	0.50	U	108-60-1	bis(2-chloroisopropyl)ether	2.0	U
105-67-9	2,4-Dimethylphenol	0.50	U	117-81-7	bis(2-Ethylhexyl)phthalate	2.0	U
51-28-5	2,4-Dinitrophenol	10	U	85-68-7	Butylbenzylphthalate	2.0	U
121-14-2	2,4-Dinitrotoluene	2.0	U	105-60-2	Caprolactam	2.0	U
606-20-2	2,6-Dinitrotoluene	2.0	U	86-74-8	Carbazole	2.0	U
91-58-7	2-Chloronaphthalene	2.0	U	218-01-9	Chrysene	2.0	U
95-57-8	2-Chlorophenol	2.0	U	53-70-3	Dibenzo[a,h]anthracene	2.0	U
91-57-6	2-Methylnaphthalene	2.0	U	132-64-9	Dibenzofuran	0.50	U
95-48-7	2-Methylphenol	0.50	U	84-66-2	Diethylphthalate	2.0	U
88-74-4	2-Nitroaniline	2.0	U	131-11-3	Dimethylphthalate	2.0	U
88-75-5	2-Nitrophenol	2.0	U	84-74-2	Di-n-butylphthalate	0.50	U
106-44-5	3&4-Methylphenol	0.50	U	117-84-0	Di-n-octylphthalate	2.0	U
91-94-1	3,3'-Dichlorobenzidine	2.0	U	206-44-0	Fluoranthene	2.0	U
99-09-2	3-Nitroaniline	2.0	U	86-73-7	Fluorene	2.0	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U	118-74-1	Hexachlorobenzene	2.0	U
101-55-3	4-Bromophenyl-phenylether	2.0	U	87-68-3	Hexachlorobutadiene	2.0	U
59-50-7	4-Chloro-3-methylphenol	2.0	U	77-47-4	Hexachlorocyclopentadiene	2.0	U
106-47-8	4-Chloroaniline	0.50	U	67-72-1	Hexachloroethane	2.0	U
7005-72-3	4-Chlorophenyl-phenylether	2.0	U	193-39-5	Indeno[1,2,3-cd]pyrene	2.0	U
100-01-6	4-Nitroaniline	2.0	U	78-59-1	Isophorone	2.0	U
100-02-7	4-Nitrophenol	2.0	U	91-20-3	Naphthalene	0.50	U
83-32-9	Acenaphthene	2.0	U	98-95-3	Nitrobenzene	2.0	U
208-96-8	Acenaphthylene	2.0	U	621-64-7	N-Nitroso-di-n-propylamine	0.50	U
98-86-2	Acetophenone	2.0	U	86-30-6	n-Nitrosodiphenylamine	2.0	U
120-12-7	Anthracene	2.0	U	87-86-5	Pentachlorophenol	2.7	U
1912-24-9	Atrazine	2.0	U	85-01-8	Phenanthrene	2.0	U
100-52-7	Benzaldehyde	2.0	U	108-95-2	Phenol	2.0	U
56-55-3	Benzo[a]anthracene	2.0	U	129-00-0	Pyrene	2.0	U
50-32-8	Benzo[a]pyrene	2.0	U				

Worksheet #: 455669

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used

N-Nitrosodiphenylamine decomposes in the GC inlet and is detected as diphenylamine

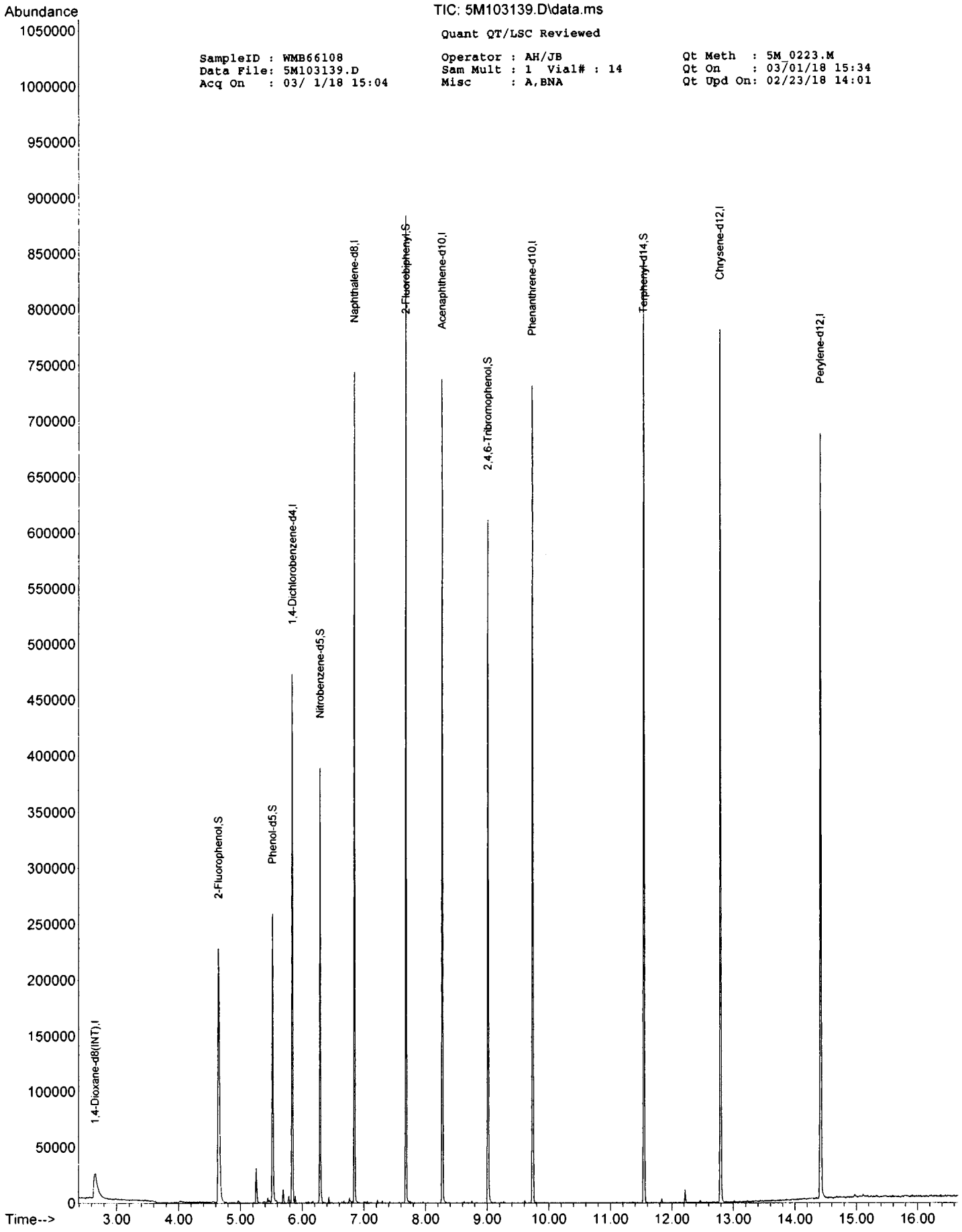
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

SampleID : WMB66108 Operator : AH/JB Qt Meth : 5M_0223.M
Data File: 5M103139.D Sam Mult : 1 Vial# : 14 Qt On : 03/01/18 15:34
Acq On : 03/ 1/18 15:04 Misc : A,BNA Qt Upd On: 02/23/18 14:01

Data Path : G:\GcMsData\2018\GCMS_5\Data\03-01-18\
Qt Path : G:\GCMSDATA\2018\GCMS_5\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.649	96	32266	40.00	ng	-0.02
21) 1,4-Dichlorobenzene-d4	5.838	152	70557	40.00	ng	0.00
31) Naphthalene-d8	6.843	136	260535	40.00	ng	0.00
50) Acenaphthene-d10	8.269	164	156603	40.00	ng	0.00
77) Phenanthrene-d10	9.733	188	282974	40.00	ng	0.00
91) Chrysene-d12	12.794	240	323290	40.00	ng	0.00
103) Perylene-d12	14.418	264	297406	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.642	112	106816	49.90	ng	-0.01
Spiked Amount 100.000			Recovery = 49.90%			
16) Phenol-d5	5.518	99	88061	32.51	ng	0.00
Spiked Amount 100.000			Recovery = 32.51%			
32) Nitrobenzene-d5	6.287	128	44801	42.64	ng	0.00
Spiked Amount 50.000			Recovery = 85.28%			
55) 2-Fluorobiphenyl	7.682	172	238213	44.22	ng	0.00
Spiked Amount 50.000			Recovery = 88.44%			
80) 2,4,6-Tribromophenol	9.012	330	63535	85.99	ng	0.00
Spiked Amount 100.000			Recovery = 85.99%			
94) Terphenyl-d14	11.544	244	263647	50.80	ng	0.00
Spiked Amount 50.000			Recovery = 101.60%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 5M103139.D\data.ms
Quant QT/LSC Reviewed
SampleID : WMB66108
Data File: 5M103139.D
Acq On : 03/ 1/18 15:04
Operator : AH/JB
Sam Mult : 1 Vial# : 14
Misc : A,BNA
Qt Meth : 5M_0223.M
Qt On : 03/01/18 15:34
Qt Upd On: 02/23/18 14:01
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->

Form3
Recovery Data Laboratory Limits
QC Batch: WMB66108

Data File	Sample ID:	Analysis Date
Spike or Dup: 10M67912.D	WMB66108(MS)	3/1/2018 1:52:00 PM
Non Spike(If applicable):		
Inst Blank(If applicable):		
Method: 8270D	Matrix: Aqueous	QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	50.9141	0	100	51	20	160
Pyridine	1	20.9326	0	100	21	5	150
N-Nitrosodimethylamine	1	56.145	0	100	56	50	150
Benzaldehyde	1	232.4215	0	100	232*	20	150
Aniline	1	68.7012	0	100	69	20	150
Pentachloroethane	1	94.4595	0	100	94	50	130
bis(2-Chloroethyl)ether	1	77.5092	0	100	78	50	130
Phenol	1	39.8461	0	100	40	20	150
2-Chlorophenol	1	78.5215	0	100	79	70	130
N-Decane	1	88.4353	0	100	88	40	130
1,3-Dichlorobenzene	1	72.0129	0	100	72	50	130
1,4-Dichlorobenzene	1	68.9667	0	100	69	50	130
1,2-Dichlorobenzene	1	69.558	0	100	70	50	130
Benzyl alcohol	1	90.8023	0	100	91	70	130
bis(2-chloroisopropyl)ether	1	67.1817	0	100	67	40	130
2-Methylphenol	1	69.2262	0	100	69	60	130
Acetophenone	1	101.5877	0	100	102	50	130
Hexachloroethane	1	69.6461	0	100	70	50	130
N-Nitroso-di-n-propylamine	1	76.1433	0	100	76	50	130
3&4-Methylphenol	1	64.7149	0	100	65	50	130
Nitrobenzene	1	79.551	0	100	80	70	130
Isophorone	1	81.7847	0	100	82	70	130
2-Nitrophenol	1	91.5657	0	100	92	70	130
2,4-Dimethylphenol	1	79.9693	0	100	80	50	130
Benzoic Acid	1	14.2662	0	100	14*	20	130
bis(2-Chloroethoxy)methane	1	79.9361	0	100	80	70	130
2,4-Dichlorophenol	1	84.7591	0	100	85	70	130
1,2,4-Trichlorobenzene	1	72.2798	0	100	72	50	130
Naphthalene	1	72.9411	0	100	73	70	130
4-Chloroaniline	1	115.1756	0	100	115	50	150
Hexachlorobutadiene	1	72.5481	0	100	73	70	130
Caprolactam	1	41.4137	0	100	41	20	130
4-Chloro-3-methylphenol	1	89.8609	0	100	90	70	130
2-Methylnaphthalene	1	99.0998	0	100	99	70	130
1-Methylnaphthalene	1	87.0101	0	100	87	70	130
1,1'-Biphenyl	1	94.3858	0	100	94	70	130
1,2,4,5-Tetrachlorobenzene	1	99.0205	0	100	99	70	130
Hexachlorocyclopentadiene	1	70.578	0	100	71	20	130
2,4,6-Trichlorophenol	1	92.9557	0	100	93	70	130
2,4,5-Trichlorophenol	1	89.0779	0	100	89	70	130
2-Chloronaphthalene	1	77.31	0	100	77	70	130
1,4-Dimethylnaphthalene	1	96.7062	0	100	97	70	130
Diphenyl Ether	1	102.2135	0	100	102	70	130
2-Nitroaniline	1	115.3931	0	100	115	50	150
Coumarin	1	115.8959	0	100	116	70	130
Acenaphthylene	1	85.3885	0	100	85	70	130
Dimethylphthalate	1	88.3289	0	100	88	70	130
2,6-Dinitrotoluene	1	85.4754	0	100	85	70	130
Acenaphthene	1	82.1591	0	100	82	70	130
3-Nitroaniline	1	121.0633	0	100	121	50	150
2,4-Dinitrophenol	1	76.0366	0	100	76	20	150
Dibenzofuran	1	111.3912	0	100	111	70	130
2,4-Dinitrotoluene	1	85.1779	0	100	85	40	130
4-Nitrophenol	1	41.4641	0	100	41	20	150
2,3,4,6-Tetrachlorophenol	1	94.3521	0	100	94	70	130
Fluorene	1	84.5787	0	100	85	70	130
4-Chlorophenyl-phenylether	1	82.7257	0	100	83	70	130
Diethylphthalate	1	93.249	0	100	93	50	130
4-Nitroaniline	1	108.9711	0	100	109	50	150
Atrazine	1	104.0202	0	100	104	50	130
4,6-Dinitro-2-methylphenol	1	93.2486	0	100	93	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: WMB66108

n-Nitrosodiphenylamine	1	75.5817	0	100	76	50	130
1,2-Diphenylhydrazine	1	89.7289	0	100	90	70	130
4-Bromophenyl-phenylether	1	89.6943	0	100	90	70	130
Hexachlorobenzene	1	90.4268	0	100	90	70	130
N-Octadecane	1	116.9304	0	100	117	70	130
Pentachlorophenol	1	102.3898	0	100	102	40	130
Phenanthrene	1	87.5318	0	100	88	70	130
Anthracene	1	89.6763	0	100	90	70	130
Carbazole	1	98.865	0	100	99	70	130
Di-n-butylphthalate	1	94.6201	0	100	95	70	130
Fluoranthene	1	95.2436	0	100	95	70	130
Pyrene	1	94.335	0	100	94	70	130
Benzidine	1	2.651	0	100	2.7	1	130
Butylbenzylphthalate	1	90.9785	0	100	91	50	130
3,3'-Dichlorobenzidine	1	109.5914	0	100	110	1	150
Benzo[a]anthracene	1	91.8144	0	100	92	70	130
Chrysene	1	90.6458	0	100	91	50	130
bis(2-Ethylhexyl)phthalate	1	95.8189	0	100	96	70	130
Di-n-octylphthalate	1	97.3573	0	100	97	70	130
Benzo[b]fluoranthene	1	94.8657	0	100	95	70	130
Benzo[k]fluoranthene	1	98.0678	0	100	98	70	130
Benzo[a]pyrene	1	89.0932	0	100	89	70	130
Indeno[1,2,3-cd]pyrene	1	96.2557	0	100	96	70	130
Dibenzo[a,h]anthracene	1	94.3411	0	100	94	70	130
Benzo[g,h,i]perylene	1	88.8084	0	100	89	70	130

* - Indicates outside of limits

- Indicates outside of standard limits but within method exceedance limits

SampleID : WMB66108(MS) Operator : AH/JB Qt Meth : 10M_0223.M
Data File: 10M67912.D Sam Mult : 1 Vial# : 7 Qt On : 03/01/18 14:45
Acq On : 03/ 1/18 13:52 Misc : A,BNA Qt Upd On: 02/23/18 14:04

Data Path : G:\GcMsData\2018\GCMS_10\Data\03-01-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.566	96	62392	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.776	152	125927	40.00	ng	0.00
31) Naphthalene-d8	6.776	136	466918	40.00	ng	0.00
50) Acenaphthene-d10	8.193	164	287214	40.00	ng	0.00
77) Phenanthrene-d10	9.648	188	485485	40.00	ng	0.00
91) Chrysene-d12	12.691	240	555581	40.00	ng	0.00
103) Perylene-d12	14.296	264	533645	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.583	112	188593	52.95	ng	0.00
Spiked Amount 100.000			Recovery = 52.95%			
16) Phenol-d5	5.460	99	163987	37.51	ng	0.00
Spiked Amount 100.000			Recovery = 37.51%			
32) Nitrobenzene-d5	6.225	128	81737	44.92	ng	0.00
Spiked Amount 50.000			Recovery = 89.84%			
55) 2-Fluorobiphenyl	7.610	172	402563	41.92	ng	0.00
Spiked Amount 50.000			Recovery = 83.84%			
80) 2,4,6-Tribromophenol	8.931	330	167330	97.27	ng	0.00
Spiked Amount 100.000			Recovery = 97.27%			
94) Terphenyl-d14	11.445	244	482739	51.75	ng	0.00
Spiked Amount 50.000			Recovery = 103.50%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.599	88	80290	50.9141	ng	64
9) Pyridine	3.096	79	97019	20.9326	ng	71
10) N-Nitrosodimethylamine	3.000	74	147669	56.1450	ng	71
12) Benzaldehyde	5.407	77	301544	232.4215	ng	69
13) Aniline	5.498	93	420479	68.7012	ng	49
14) Pentachloroethane	5.540	117	117449	94.4595	ng	76
15) bis(2-Chloroethyl)ether	5.556	93	332347	77.5092	ng	77
17) Phenol	5.471	94	217311	39.8461	ng	78
18) 2-Chlorophenol	5.594	128	347511	78.5215	ng	77
19) N-Decane	5.637	57	318813	88.4353	ng	82
20) 1,3-Dichlorobenzene	5.728	146	351356	72.0129	ng	97
22) 1,4-Dichlorobenzene	5.792	146	358367	68.9667	ng	97
23) 1,2-Dichlorobenzene	5.915	146	345843	69.5580	ng	98
24) Benzyl alcohol	5.888	108	269744	90.8023	ng	65
25) bis(2-chloroisopropyl)...	6.000	45	355930	67.1817	ng	94
26) 2-Methylphenol	5.979	108	292674	69.2262	ng	96
27) Acetophenone	6.102	105	477210	101.5877	ng	69
28) Hexachloroethane	6.188	117	127266	69.6461	ng	91
29) N-Nitroso-di-n-propyla...	6.102	70	207127	76.1433	ng	67
30) 3&4-Methylphenol	6.097	108	264830	64.7149	ng	88
33) Nitrobenzene	6.241	77	318516	79.5510	ng	71
34) Isophorone	6.423	82	619141	81.7847	ng	84
35) 2-Nitrophenol	6.487	139	201655	91.5657	ng	75
36) 2,4-Dimethylphenol	6.508	107	331871	79.9693	ng	87
37) Benzoic Acid	6.562	105	30535m	14.2662	ng	
38) bis(2-Chloroethoxy)met...	6.583	93	402145	79.9361	ng	97
39) 2,4-Dichlorophenol	6.664	162	318232	84.7591	ng	86
40) 1,2,4-Trichlorobenzene	6.733	180	306017	72.2798	ng	96
41) Naphthalene	6.792	128	979139	72.9411	ng	99
42) 4-Chloroaniline	6.829	127	493652m	115.1756	ng	
43) Hexachlorobutadiene	6.883	225	175608	72.5481	ng	97
44) Caprolactam	7.107	113	58052	41.4137	ng	62
45) 4-Chloro-3-methylphenol	7.188	107	319046	89.8609	ng	74
46) 2-Methylnaphthalene	7.327	142	888302	99.0998	ng	98
47) 1-Methylnaphthalene	7.402	142	760951	87.0101	ng	95
48) Methylnaphthalenes (To...	7.327	142	1640148m	186.1573	ng	
49) 1,1'-Biphenyl	7.696	154	930176	94.3858	ng	94
51) 1,2,4,5-Tetrachloroben...	7.455	216	390632	99.0205	ng	99
52) Hexachlorocyclopentadiene	7.444	237	180726	70.5780	ng	98
53) 2,4,6-Trichlorophenol	7.541	196	252873	92.9557	ng	99
54) 2,4,5-Trichlorophenol	7.573	196	259192	89.0779	ng	100
56) 2-Chloronaphthalene	7.717	162	653948	77.3100	ng	90
57) 1,4-Dimethylnaphthalene	7.995	156	550475	96.7062	ng	85
58) Dimethylnaphthalenes (...	7.995	156	550475	96.7062	ng	85
59) Diphenyl Ether	7.781	170	576610	102.2135	ng	68
60) 2-Nitroaniline	7.797	65	281428	115.3931	ng	37
61) Coumarin	7.979	146	334476	115.8959	ng	86
62) Acenaphthylene	8.076	152	1074267	85.3885	ng	99
63) Dimethylphthalate	7.937	163	823870	88.3289	ng	97
64) 2,6-Dinitrotoluene	7.995	165	175254	85.4754	ng	57
65) Acenaphthene	8.225	153	687288	82.1591	ng	98

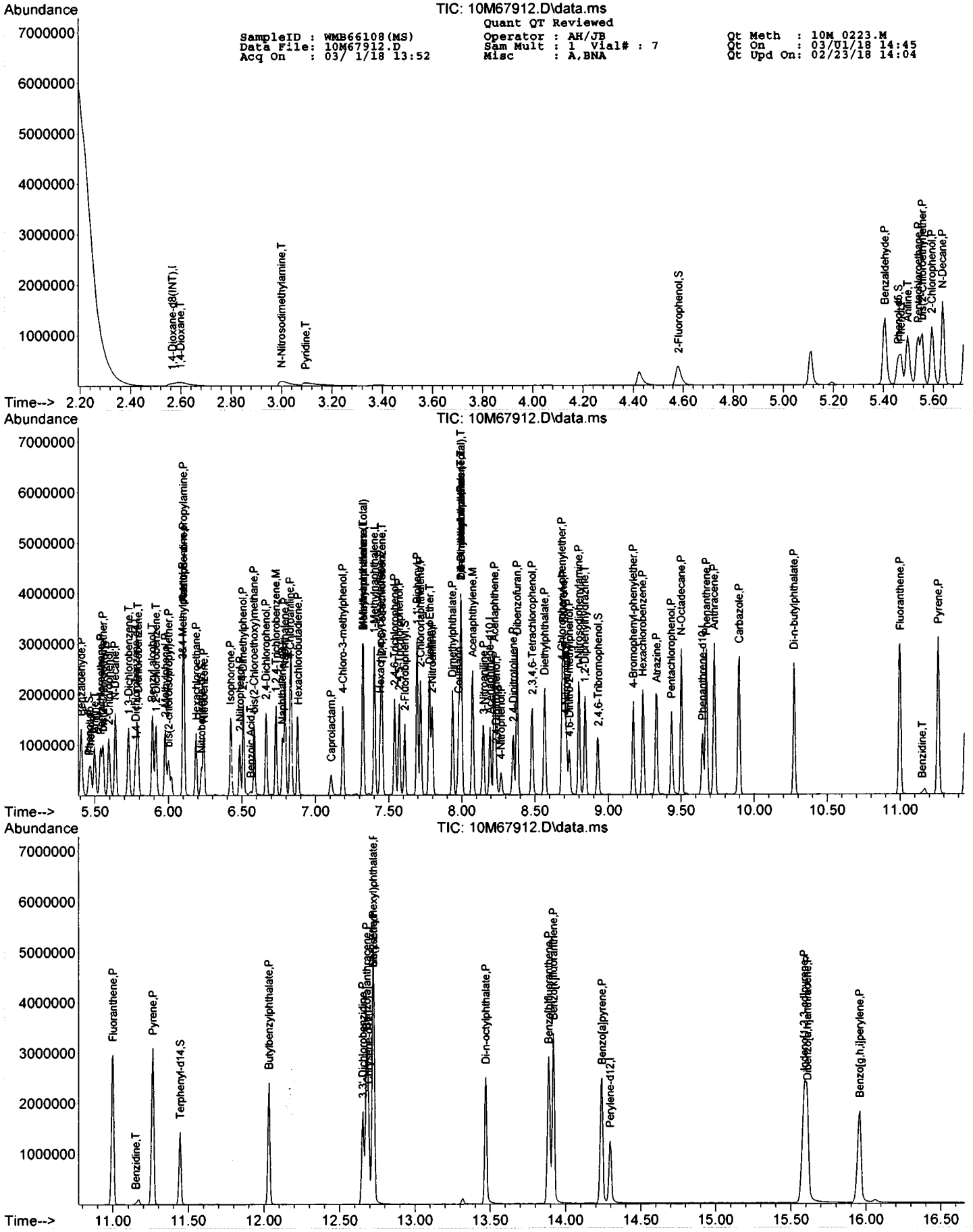
Quantitation Report (QT Reviewed)

SampleID : WMB66108(MS) Operator : AH/JB Qt Meth : 10M_0223.M
Data File: 10M67912.D Sam Mult : 1 Vial# : 7 Qt On : 03/01/18 14:45
Acq On : 03/ 1/18 13:52 Misc : A,BNA Qt Upd On: 02/23/18 14:04

Data Path : G:\GcMsData\2018\GCMS_10\Data\03-01-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.150	138	269263	121.0633	ng	66
67)	2,4-Dinitrophenol	8.236	184	87827	76.0366	ng	32
68)	Dibenzofuran	8.380	168	1286657	111.3912	ng	81
69)	2,4-Dinitrotoluene	8.354	165	253553	85.1779	ng	51
70)	4-Nitrophenol	8.268	65	67042	41.4641	ng	96
71)	2,3,4,6-Tetrachlorophenol	8.482	232	247787	94.3521	ng	79
72)	Fluorene	8.696	166	798210	84.5787	ng	100
73)	4-Chlorophenyl-phenyle...	8.685	204	407523	82.7257	ng	77
74)	Diethylphthalate	8.568	149	821137	93.2490	ng	93
75)	4-Nitroaniline	8.712	138	301428	108.9711	ng	66
76)	Atrazine	9.333	200	281319	104.0202	ng	92
78)	4,6-Dinitro-2-methylph...	8.733	198	151532	93.2486	ng	77
79)	n-Nitrosodiphenylamine	8.798	169	612957	75.5817	ng	99
81)	1,2-Diphenylhydrazine	8.840	77	730894	89.7289	ng	76
82)	4-Bromophenyl-phenylether	9.172	248	275083	89.6943	ng	74
83)	Hexachlorobenzene	9.236	284	328660	90.4268	ng	57
84)	N-Octadecane	9.504	57	496005	116.9304	ng	73
85)	Pentachlorophenol	9.434	266	219984	102.3898	ng	96
86)	Phenanthrene	9.675	178	1218849	87.5318	ng	100
87)	Anthracene	9.728	178	1257978	89.6763	ng	98
88)	Carbazole	9.899	167	1286794	98.8650	ng	97
89)	Di-n-butylphthalate	10.274	149	1363860	94.6201	ng	97
90)	Fluoranthene	11.001	202	1397867	95.2436	ng	91
92)	Pyrene	11.263	202	1449404	94.3350	ng	89
93)	Benzidine	11.151	184	17299	2.6510	ng	87
97)	Butylbenzylphthalate	12.034	149	599122	90.9785	ng	67
99)	3,3'-Dichlorobenzidine	12.654	252	452573	109.5914	ng	95
100)	Benzo[a]anthracene	12.681	228	1404201	91.8144	ng	99
101)	Chrysene	12.724	228	1308912	90.6458	ng	100
102)	bis(2-Ethylhexyl)phtha...	12.724	149	785979	95.8189	ng	87
104)	Di-n-octylphthalate	13.472	149	1402763	97.3573	ng	100
105)	Benzo[b]fluoranthene	13.890	252	1455515	94.8657	ng	94
106)	Benzo[k]fluoranthene	13.922	252	1470926	98.0678	ng	93
107)	Benzo[a]pyrene	14.243	252	1312170	89.0932	ng	91
108)	Indeno[1,2,3-cd]pyrene	15.590	276	1648906	96.2557	ng	93
109)	Dibenzo[a,h]anthracene	15.612	278	1361843	94.3411	ng	86
110)	Benzo[g,h,i]perylene	15.959	276	1316660	88.8084	ng	74

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M67912.D\data.ms
Quant QT Reviewed
SampleID : WMB66108(MS)
Data File: 10M67912.D
Acq On : 03/ 1/18 13:52
Operator : AH/JB
Sam Mult : 1 Vial# : 7
Misc : A,BNA
Qt Meth : 10M_0223.M
Qt On : 03/01/18 14:45
Qt Upd On: 02/23/18 14:04
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->
Abundance
TIC: 10M67912.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
2-Fluorobiphenyl,S
Acenaphthylene,M
Dimethylphthalate,P
Dibenzofuran,P
2,3,4,6-Tetrachlorophenol,P
Diethylphthalate,P
2,4,6-Tribromophenol,S
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
Abundance
TIC: 10M67912.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Form3
Recovery Data Laboratory Limits
QC Batch: WMB66108

Data File	Sample ID:	Analysis Date
Spike or Dup: 10M67917.D	AD02667-001(T)(MS)	3/1/2018 3:43:00 PM
Non Spike(If applicable): 10M67916.D	AD02667-001(T)	3/1/2018 3:21:00 PM
Inst Blank(If applicable):		

Method: 8270D | Matrix: Aqueous | QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	61.9455	0	100	62	20	160
Pyridine	1	58.0812	0	100	58	5	150
N-Nitrosodimethylamine	1	73.3329	0	100	73	50	150
Benzaldehyde	1	165.5702	0	100	166*	20	150
Aniline	1	93.3702	0	100	93	20	150
Pentachloroethane	1	84.5766	0	100	85	50	130
bis(2-Chloroethyl)ether	1	63.3856	0	100	63	50	130
N-Decane	1	81.5478	0	100	82	40	130
1,3-Dichlorobenzene	1	28.0511	0	100	28*	50	130
1,4-Dichlorobenzene	1	28.8071	0	100	29*	50	130
1,2-Dichlorobenzene	1	31.0885	0	100	31*	50	130
Benzyl alcohol	1	95.5951	0	100	96	70	130
bis(2-chloroisopropyl)ether	1	46.9647	0	100	47	40	130
Acetophenone	1	89.7217	0	100	90	50	130
Hexachloroethane	1	28.1838	0	100	28*	50	130
N-Nitroso-di-n-propylamine	1	66.9408	0	100	67	50	130
Nitrobenzene	1	65.0863	0	100	65*	70	130
Isophorone	1	73.339	0	100	73	70	130
Benzoic Acid	1	53.6111	0	100	54	20	130
bis(2-Chloroethoxy)methane	1	71.8304	0	100	72	70	130
1,2,4-Trichlorobenzene	1	52.702	0	100	53	50	130
Naphthalene	1	51.973	0	100	52*	70	130
4-Chloroaniline	1	115.3731	0	100	115	50	150
Hexachlorobutadiene	1	46.814	0	100	47*	70	130
Caprolactam	1	90.1675	0	100	90	20	130
2-Methylnaphthalene	1	89.5404	0	100	90	70	130
1-Methylnaphthalene	1	79.6909	0	100	80	70	130
1,1'-Biphenyl	1	88.8588	0	100	89	70	130
1,2,4,5-Tetrachlorobenzene	1	94.4005	0	100	94	70	130
Hexachlorocyclopentadiene	1	60.1313	0	100	60	20	130
2-Chloronaphthalene	1	73.6148	0	100	74	70	130
1,4-Dimethylnaphthalene	1	90.3923	0	100	90	70	130
Diphenyl Ether	1	96.2453	0	100	96	70	130
2-Nitroaniline	1	106.6106	0	100	107	50	150
Coumarin	1	109.2793	0	100	109	70	130
Acenaphthylene	1	84.6247	0	100	85	70	130
Dimethylphthalate	1	85.7427	0	100	86	70	130
2,6-Dinitrotoluene	1	82.0765	0	100	82	70	130
Acenaphthene	1	80.1626	0	100	80	70	130
3-Nitroaniline	1	116.6891	0	100	117	50	150
Dibenzofuran	1	108.0193	0	100	108	70	130
2,4-Dinitrotoluene	1	84.0999	0	100	84	40	130
Fluorene	1	83.7054	0	100	84	70	130
4-Chlorophenyl-phenylether	1	84.3945	0	100	84	70	130
Diethylphthalate	1	91.1776	0	100	91	50	130
4-Nitroaniline	1	106.7475	0	100	107	50	150
Atrazine	1	93.5672	0	100	94	50	130
n-Nitrosodiphenylamine	1	72.4008	0	100	72	50	130
1,2-Diphenylhydrazine	1	86.4711	0	100	86	70	130
4-Bromophenyl-phenylether	1	89.6995	0	100	90	70	130
Hexachlorobenzene	1	89.2357	0	100	89	70	130
N-Octadecane	1	101.4802	0	100	101	70	130
Phenanthrene	1	85.0752	0	100	85	70	130
Anthracene	1	86.2905	0	100	86	70	130
Carbazole	1	93.4939	0	100	93	70	130
Di-n-butylphthalate	1	88.408	0	100	88	70	130
Fluoranthene	1	89.4763	0	100	89	70	130
Pyrene	1	89.9588	0	100	90	70	130
Benzidine	1	24.2098	0	100	24	1	130
Butylbenzylphthalate	1	88.2195	0	100	88	50	130
3,3'-Dichlorobenzidine	1	109.5221	0	100	110	1	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: WMB66108

Benzo[a]anthracene	1	90.2905	0	100	90	70	130
Chrysene	1	89.1176	0	100	89	50	130
bis(2-Ethylhexyl)phthalate	1	93.1275	0	100	93	70	130
Di-n-octylphthalate	1	93.1692	0	100	93	70	130
Benzo[b]fluoranthene	1	90.9555	0	100	91	70	130
Benzo[k]fluoranthene	1	94.9376	0	100	95	70	130
Benzo[a]pyrene	1	85.1004	0	100	85	70	130
Indeno[1,2,3-cd]pyrene	1	93.3164	0	100	93	70	130
Dibenzo[a,h]anthracene	1	91.318	0	100	91	70	130
Benzo[g,h,i]perylene	1	86.7541	0	100	87	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: WMB66108

Data File	Sample ID:	Analysis Date
Spike or Dup: 10M67918.D	AD02667-001(T)(MSD)	3/1/2018 4:05:00 PM
Non Spike(If applicable): 10M67916.D	AD02667-001(T)	3/1/2018 3:21:00 PM
Inst Blank(If applicable):		

Method: 8270D | Matrix: Aqueous | QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
1,4-Dioxane	1	55.597	0	100	56	20	160
Pyridine	1	58.8232	0	100	59	5	150
N-Nitrosodimethylamine	1	64.23	0	100	64	50	150
Benzaldehyde	1	149.8717	0	100	150	20	150
Aniline	1	97.2626	0	100	97	20	150
Pentachloroethane	1	80.1156	0	100	80	50	130
bis(2-Chloroethyl)ether	1	53.733	0	100	54	50	130
N-Decane	1	76.7142	0	100	77	40	130
1,3-Dichlorobenzene	1	16.4385	0	100	16*	50	130
1,4-Dichlorobenzene	1	16.558	0	100	17*	50	130
1,2-Dichlorobenzene	1	18.1893	0	100	18*	50	130
Benzyl alcohol	1	83.2287	0	100	83	70	130
bis(2-chloroisopropyl)ether	1	34.2394	0	100	34*	40	130
Acetophenone	1	84.491	0	100	84	50	130
Hexachloroethane	1	15.7764	0	100	16*	50	130
N-Nitroso-di-n-propylamine	1	57.9975	0	100	58	50	130
Nitrobenzene	1	55.1257	0	100	55*	70	130
Isophorone	1	64.2944	0	100	64*	70	130
Benzoic Acid	1	49.5608	0	100	50	20	130
bis(2-Chloroethoxy)methane	1	62.393	0	100	62*	70	130
1,2,4-Trichlorobenzene	1	38.7014	0	100	39*	50	130
Naphthalene	1	39.6984	0	100	40*	70	130
4-Chloroaniline	1	113.8023	0	100	114	50	150
Hexachlorobutadiene	1	31.2362	0	100	31*	70	130
Caprolactam	1	86.1387	0	100	86	20	130
2-Methylnaphthalene	1	78.5354	0	100	79	70	130
1-Methylnaphthalene	1	72.7795	0	100	73	70	130
1,1'-Biphenyl	1	79.3342	0	100	79	70	130
1,2,4,5-Tetrachlorobenzene	1	82.7247	0	100	83	70	130
Hexachlorocyclopentadiene	1	44.4426	0	100	44	20	130
2-Chloronaphthalene	1	60.1852	0	100	60*	70	130
1,4-Dimethylnaphthalene	1	82.6184	0	100	83	70	130
Diphenyl Ether	1	85.0126	0	100	85	70	130
2-Nitroaniline	1	95.4413	0	100	95	50	150
Coumarin	1	98.0696	0	100	98	70	130
Acenaphthylene	1	72.3449	0	100	72	70	130
Dimethylphthalate	1	76.5926	0	100	77	70	130
2,6-Dinitrotoluene	1	73.7575	0	100	74	70	130
Acenaphthene	1	68.5107	0	100	69*	70	130
3-Nitroaniline	1	118.7946	0	100	119	50	150
Dibenzofuran	1	89.9924	0	100	90	70	130
2,4-Dinitrotoluene	1	73.3446	0	100	73	40	130
Fluorene	1	74.5543	0	100	75	70	130
4-Chlorophenyl-phenylether	1	73.0432	0	100	73	70	130
Diethylphthalate	1	80.7207	0	100	81	50	130
4-Nitroaniline	1	101.5157	0	100	102	50	150
Atrazine	1	86.8914	0	100	87	50	130
n-Nitrosodiphenylamine	1	65.9118	0	100	66	50	130
1,2-Diphenylhydrazine	1	78.0813	0	100	78	70	130
4-Bromophenyl-phenylether	1	79.4198	0	100	79	70	130
Hexachlorobenzene	1	78.2835	0	100	78	70	130
N-Octadecane	1	93.3402	0	100	93	70	130
Phenanthrene	1	77.1998	0	100	77	70	130
Anthracene	1	77.6521	0	100	78	70	130
Carbazole	1	84.85	0	100	85	70	130
Di-n-butylphthalate	1	81.5915	0	100	82	70	130
Fluoranthene	1	81.5907	0	100	82	70	130
Pyrene	1	80.8941	0	100	81	70	130
Benzidine	1	27.0362	0	100	27	1	130
Butylbenzylphthalate	1	74.6232	0	100	75	50	130
3,3'-Dichlorobenzidine	1	108.0571	0	100	108	1	150

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: WMB66108

Benzo[a]anthracene	1	80.287	0	100	80	70	130
Chrysene	1	77.3795	0	100	77	50	130
bis(2-Ethylhexyl)phthalate	1	82.433	0	100	82	70	130
Di-n-octylphthalate	1	80.5147	0	100	81	70	130
Benzo[b]fluoranthene	1	83.3717	0	100	83	70	130
Benzo[k]fluoranthene	1	83.2373	0	100	83	70	130
Benzo[a]pyrene	1	77.0209	0	100	77	70	130
Indeno[1,2,3-cd]pyrene	1	82.347	0	100	82	70	130
Dibenzo[a,h]anthracene	1	79.9782	0	100	80	70	130
Benzo[g,h,i]perylene	1	76.0297	0	100	76	70	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: WMB66108

	Data File	Sample ID:	Analysis Date
Spike or Dup:	10M67918.D	AD02667-001(T)(MSD)	3/1/2018 4:05:00 PM
Duplicate(If applicable):	10M67917.D	AD02667-001(T)(MS)	3/1/2018 3:43:00 PM
Inst Blank(If applicable):			

Method: 8270D Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
1,4-Dioxane	1	55.597	61.9455	11	20
Pyridine	1	58.8232	58.0812	1.3	40
N-Nitrosodimethylamine	1	64.23	73.3329	13	20
Benzaldehyde	1	149.8717	165.5702	10	20
Aniline	1	97.2626	93.3702	4.1	20
Pentachloroethane	1	80.1156	84.5766	5.4	20
bis(2-Chloroethyl)ether	1	53.733	63.3856	16	20
N-Decane	1	76.7142	81.5478	6.1	20
1,3-Dichlorobenzene	1	16.4385	28.0511	52*	20
1,4-Dichlorobenzene	1	16.558	28.8071	54*	40
1,2-Dichlorobenzene	1	18.1893	31.0885	52*	20
Benzyl alcohol	1	83.2287	95.5951	14	20
bis(2-chloroisopropyl)ether	1	34.2394	46.9647	31*	20
Acetophenone	1	84.491	89.7217	6	20
Hexachloroethane	1	15.7764	28.1838	56*	40
N-Nitroso-di-n-propylamine	1	57.9975	66.9408	14	40
Nitrobenzene	1	55.1257	65.0863	17	40
Isophorone	1	64.2944	73.339	13	20
Benzoic Acid	1	49.5608	53.6111	7.9	20
bis(2-Chloroethoxy)methane	1	62.393	71.8304	14	20
1,2,4-Trichlorobenzene	1	38.7014	52.702	31	40
Naphthalene	1	39.6984	51.973	27	40
4-Chloroaniline	1	113.8023	115.3731	1.4	20
Hexachlorobutadiene	1	31.2362	46.814	40	40
Caprolactam	1	86.1387	90.1675	4.6	20
2-Methylnaphthalene	1	78.5354	89.5404	13	20
1-Methylnaphthalene	1	72.7795	79.6909	9.1	20
1,1'-Biphenyl	1	79.3342	88.8588	11	20
1,2,4,5-Tetrachlorobenzene	1	82.7247	94.4005	13	20
Hexachlorocyclopentadiene	1	44.4426	60.1313	30*	20
2-Chloronaphthalene	1	60.1852	73.6148	20	20
1,4-Dimethylnaphthalene	1	82.6184	90.3923	9	20
Diphenyl Ether	1	85.0126	96.2453	12	20
2-Nitroaniline	1	95.4413	106.6106	11	20
Coumarin	1	98.0696	109.2793	11	20
Acenaphthylene	1	72.3449	84.6247	16	20
Dimethylphthalate	1	76.5926	85.7427	11	20
2,6-Dinitrotoluene	1	73.7575	82.0765	11	20
Acenaphthene	1	68.5107	80.1626	16	40
3-Nitroaniline	1	118.7946	116.6891	1.8	20
Dibenzofuran	1	89.9924	108.0193	18	20
2,4-Dinitrotoluene	1	73.3446	84.0999	14	40
Fluorene	1	74.5543	83.7054	12	40
4-Chlorophenyl-phenylether	1	73.0432	84.3945	14	20
Diethylphthalate	1	80.7207	91.1776	12	20
4-Nitroaniline	1	101.5157	106.7475	5	20
Atrazine	1	86.8914	93.5672	7.4	20
n-Nitrosodiphenylamine	1	65.9118	72.4008	9.4	20
1,2-Diphenylhydrazine	1	78.0813	86.4711	10	20
4-Bromophenyl-phenylether	1	79.4198	89.6995	12	20
Hexachlorobenzene	1	78.2835	89.2357	13	40
N-Octadecane	1	93.3402	101.4802	8.4	20
Phenanthrene	1	77.1998	85.0752	9.7	20
Anthracene	1	77.6521	86.2905	11	20
Carbazole	1	84.85	93.4939	9.7	20
Di-n-butylphthalate	1	81.5915	88.408	8	20
Fluoranthene	1	81.5907	89.4763	9.2	20
Pyrene	1	80.8941	89.9588	11	40
Benzidine	1	27.0362	24.2098	11	20
Butylbenzylphthalate	1	74.6232	88.2195	17	40
3,3'-Dichlorobenzidine	1	108.0571	109.5221	1.3	20
Benzo[a]anthracene	1	80.287	90.2905	12	20
Chrysene	1	77.3795	89.1176	14	20

Form3
RPD Data Laboratory Limits
QC Batch: WMB66108

bis(2-Ethylhexyl)phthalate	1	82.433	93.1275	12	20
Di-n-octylphthalate	1	80.5147	93.1692	15	20
Benzo[b]fluoranthene	1	83.3717	90.9555	8.7	20
Benzo[k]fluoranthene	1	83.2373	94.9376	13	20
Benzo[a]pyrene	1	77.0209	85.1004	10	20
Indeno[1,2,3-cd]pyrene	1	82.347	93.3164	12	20
Dibenzo[a,h]anthracene	1	79.9782	91.318	13	20
Benzo[g,h,i]perylene	1	76.0297	86.7541	13	20

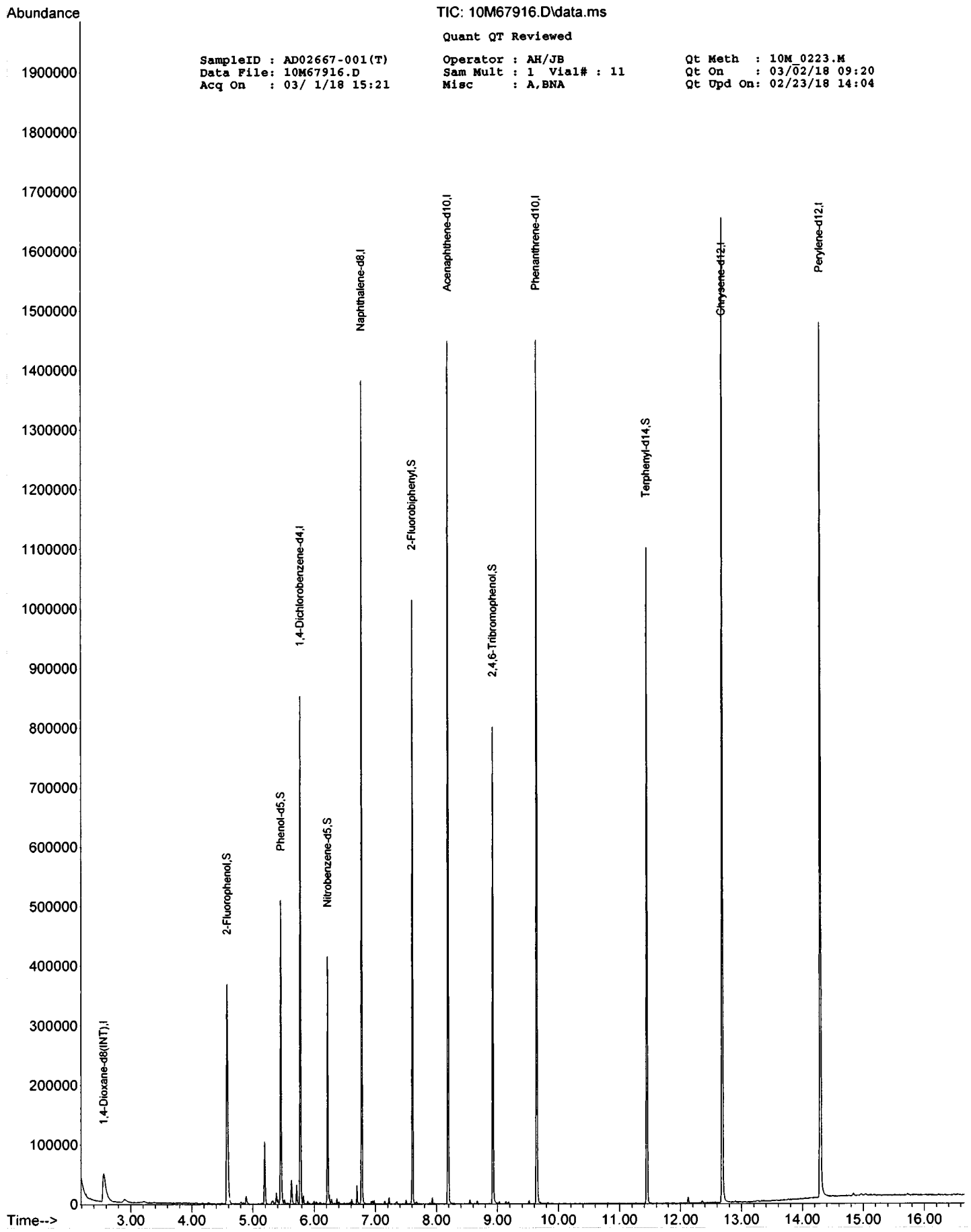
* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

SampleID : AD02667-001(T) Operator : AH/JB Qt Meth : 10M_0223.M
Data File: 10M67916.D Sam Mult : 1 Vial# : 11 Qt On : 03/02/18 09:20
Acq On : 03/ 1/18 15:21 Misc : A,BNA Qt Upd On: 02/23/18 14:04

Data Path : G:\GcMsData\2018\GCMS_10\Data\03-01-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.556	96	66197	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.776	152	138561	40.00	ng	0.00
31) Naphthalene-d8	6.776	136	524980	40.00	ng	0.00
50) Acenaphthene-d10	8.193	164	334233	40.00	ng	0.00
77) Phenanthrene-d10	9.643	188	579966	40.00	ng	0.00
91) Chrysene-d12	12.686	240	669813	40.00	ng	0.00
103) Perylene-d12	14.296	264	633032	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.578	112	178209	47.16	ng	0.00
Spiked Amount 100.000			Recovery = 47.16%			
16) Phenol-d5	5.455	99	187192	40.36	ng	0.00
Spiked Amount 100.000			Recovery = 40.36%			
32) Nitrobenzene-d5	6.220	128	57955	28.32	ng	0.00
Spiked Amount 50.000			Recovery = 56.64%			
55) 2-Fluorobiphenyl	7.605	172	302803	27.10	ng	0.00
Spiked Amount 50.000			Recovery = 54.20%			
80) 2,4,6-Tribromophenol	8.926	330	107172	51.98	ng	0.00
Spiked Amount 100.000			Recovery = 51.98%			
94) Terphenyl-d14	11.445	244	380759	33.86	ng	0.00
Spiked Amount 50.000			Recovery = 67.72%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M67916.D\data.ms
Quant QT Reviewed
SampleID : AD02667-001(T)
Data File: 10M67916.D
Acq On : 03/ 1/18 15:21
Operator : AH/JB
Sam Mult : 1 Vial# : 11
Misc : A,BNA
Qt Meth : 10M_0223.M
Qt On : 03/02/18 09:20
Qt Upd On: 02/23/18 14:04
1900000
1800000
1700000
1600000
1500000
1400000
1300000
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
1,4-Dioxane-d8(INT),I
2-Fluorophenol,S
Phenol-d5,S
1,4-Dichlorobenzene-d4,I
Nitrobenzene-d5,S
Naphthalene-d8,I
2-Fluorobiphenyl,S
Acenaphthene-d10,I
2,4,6-Tribromophenol,S
Phenanthrene-d10,I
Terphenyl-d14,S
Chrysene-d12,I
Perylene-d12,I
Time-->
3.00
4.00
5.00
6.00
7.00
8.00
9.00
10.00
11.00
12.00
13.00
14.00
15.00
16.00

SampleID : AD02667-001(T)(MS) Operator : AH/JB Qt Meth : 10M_0225.M
Data File: 10M67917.D Sam Mult : 1 Vial# : 12 Qt On : 03/02/18 10:07
Acq On : 03/ 1/18 15:43 Misc : A,BNA Qt Upd On: 02/23/18 14:04

Data Path : G:\GcMsData\2018\GCMS_10\Data\03-01-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.567	96	66544	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.776	152	130287	40.00	ng	0.00
31) Naphthalene-d8	6.776	136	487690	40.00	ng	0.00
50) Acenaphthene-d10	8.193	164	295480	40.00	ng	0.00
77) Phenanthrene-d10	9.648	188	513601	40.00	ng	0.00
91) Chrysene-d12	12.692	240	577404	40.00	ng	0.00
103) Perylene-d12	14.296	264	563979	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.583	112	267485	70.41	ng	0.00
Spiked Amount 100.000			Recovery = 70.41%			
16) Phenol-d5	5.460	99	316274	67.83	ng	0.00
Spiked Amount 100.000			Recovery = 67.83%			
32) Nitrobenzene-d5	6.225	128	66718	35.10	ng	0.00
Spiked Amount 50.000			Recovery = 70.20%			
55) 2-Fluorobiphenyl	7.610	172	207933	21.05	ng	0.00
Spiked Amount 50.000			Recovery = 42.10%			
80) 2,4,6-Tribromophenol	8.932	330	159029	87.32	ng	0.00
Spiked Amount 100.000			Recovery = 87.32%			
94) Terphenyl-d14	11.445	244	473735	48.87	ng	0.00
Spiked Amount 50.000			Recovery = 97.74%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.593	88	104001	61.9455	ng	65
9) Pyridine	3.069	79	287110	58.0812	ng	68
10) N-Nitrosodimethylamine	2.995	74	205711	73.3329	ng	71
12) Benzaldehyde	5.407	77	280549	165.5702	ng	69
13) Aniline	5.498	93	599710	93.3702	ng	54
14) Pentachloroethane	5.541	117	112159	84.5766	ng	75
15) bis(2-Chloroethyl)ether	5.557	93	289874	63.3856	ng	77
17) Phenol	5.471	94	399603	68.6995	ng	79
18) 2-Chlorophenol	5.594	128	330355	69.9876	ng	78
19) N-Decane	5.637	57	313547	81.5478	ng	81
20) 1,3-Dichlorobenzene	5.728	146	145971	28.0511	ng	98
22) 1,4-Dichlorobenzene	5.792	146	154871	28.8071	ng	97
23) 1,2-Dichlorobenzene	5.915	146	159924	31.0885	ng	98
24) Benzyl alcohol	5.894	108	293814	95.5951	ng	63
25) bis(2-chloroisopropyl)...	6.000	45	257435	46.9647	ng	95
26) 2-Methylphenol	5.979	108	312331	71.4034	ng	96
27) Acetophenone	6.107	105	436062	89.7217	ng	59
28) Hexachloroethane	6.188	117	53284	28.1838	ng	91
29) N-Nitroso-di-n-propyla...	6.107	70	188399	66.9408	ng	64
30) 3&4-Methylphenol	6.102	108	306002	73.6938	ng	88
33) Nitrobenzene	6.241	77	272194	65.0863	ng	73
34) Isophorone	6.423	82	579903	73.3390	ng	84
35) 2-Nitrophenol	6.487	139	180052	78.2742	ng	78
36) 2,4-Dimethylphenol	6.514	107	318737	73.5331	ng	86
37) Benzoic Acid	6.583	105	127073m	53.6111	ng	
38) bis(2-Chloroethoxy)met...	6.589	93	377443	71.8304	ng	96
39) 2,4-Dichlorophenol	6.669	162	306346	78.1180	ng	84
40) 1,2,4-Trichlorobenzene	6.733	180	233055	52.7020	ng	97
41) Naphthalene	6.797	128	750230	51.9730	ng	99
42) 4-Chloroaniline	6.835	127	516155	115.3731	ng	98
43) Hexachlorobutadiene	6.883	225	118358	46.8140	ng	98
44) Caprolactam	7.118	113	132951	90.1675	ng	61
45) 4-Chloro-3-methylphenol	7.193	107	321872	86.7956	ng	73
46) 2-Methylnaphthalene	7.327	142	838320	89.5404	ng	100
47) 1-Methylnaphthalene	7.402	142	727946	79.6909	ng	94
48) Methylnaphthalenes (To...	7.327	142	1558149m	169.3178	ng	
49) 1,1'-Biphenyl	7.696	154	914665	88.8588	ng	94
51) 1,2,4,5-Tetrachloroben...	7.455	216	383124	94.4005	ng	99
52) Hexachlorocyclopentadiene	7.445	237	158407	60.1313	ng	98
53) 2,4,6-Trichlorophenol	7.541	196	255020	91.1225	ng	100
54) 2,4,5-Trichlorophenol	7.573	196	276421	92.3415	ng	98
56) 2-Chloronaphthalene	7.717	162	642858	73.6148	ng	90
57) 1,4-Dimethylnaphthalene	7.996	156	529343	90.3923	ng	87
58) Dimethylnaphthalenes (...	7.996	156	529343	90.3923	ng	87
59) Diphenyl Ether	7.782	170	558568	96.2453	ng	69
60) 2-Nitroaniline	7.798	65	269132	106.6106	ng	37
61) Coumarin	7.985	146	324457	109.2793	ng	85
62) Acenaphthylene	8.076	152	1095299	84.6247	ng	99
63) Dimethylphthalate	7.937	163	822765	85.7427	ng	98
64) 2,6-Dinitrotoluene	7.996	165	174019	82.0765	ng	59
65) Acenaphthene	8.226	153	689886	80.1626	ng	98

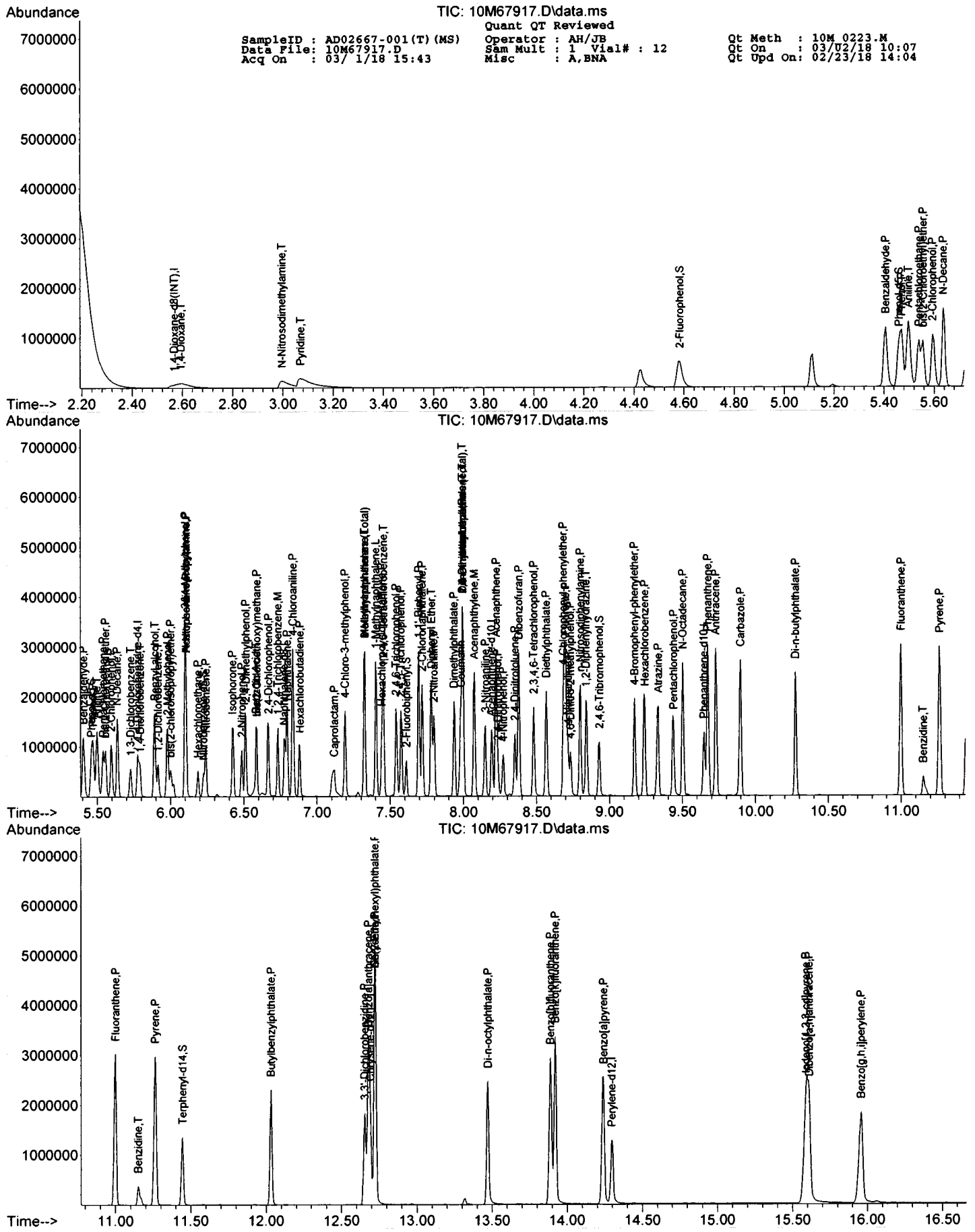
Quantitation Report (QT Reviewed)

SampleID : AD02667-001(T)(MS) Operator : AH/JB Qt Meth : 10M_0223.M
Data File: 10M67917.D Sam Mult : 1 Vial# : 12 Qt On : 03/02/18 10:07
Acq On : 03/ 1/18 15:43 Misc : A,BNA Qt Upd On: 02/23/18 14:04

Data Path : G:\GcMsData\2018\GCMS_10\Data\03-01-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66)	3-Nitroaniline	8.151	138	268924	116.6891	ng	68
67)	2,4-Dinitrophenol	8.236	184	93217	78.2425	ng	31
68)	Dibenzofuran	8.381	168	1289807	108.0193	ng	81
69)	2,4-Dinitrotoluene	8.354	165	257647	84.0999	ng	53
70)	4-Nitrophenol	8.274	65	125495	76.6550	ng	93
71)	2,3,4,6-Tetrachlorophenol	8.482	232	250096	92.5672	ng	79
72)	Fluorene	8.702	166	812703	83.7054	ng	99
73)	4-Chlorophenyl-phenyle...	8.686	204	427709	84.3945	ng	78
74)	Diethylphthalate	8.568	149	826003	91.1776	ng	94
75)	4-Nitroaniline	8.718	138	303862	106.7475	ng	62
76)	Atrazine	9.333	200	261140	93.5672	ng	93
78)	4,6-Dinitro-2-methylph...	8.734	198	154634	90.0705	ng	79
79)	n-Nitrosodiphenylamine	8.803	169	621165	72.4008	ng	100
81)	1,2-Diphenylhydrazine	8.841	77	745149	86.4711	ng	76
82)	4-Bromophenyl-phenylether	9.172	248	291031	89.6995	ng	75
83)	Hexachlorobenzene	9.242	284	343114	89.2357	ng	52
84)	N-Octadecane	9.504	57	470182	101.4802	ng	73
85)	Pentachlorophenol	9.440	266	225555	99.4029	ng	97
86)	Phenanthrene	9.675	178	1253249	85.0752	ng	100
87)	Anthracene	9.729	178	1280585	86.2905	ng	99
88)	Carbazole	9.900	167	1287359	93.4939	ng	97
89)	Di-n-butylphthalate	10.274	149	1358527	88.4080	ng	97
90)	Fluoranthene	11.001	202	1389275	89.4763	ng	91
92)	Pyrene	11.264	202	1436458	89.9588	ng	89
93)	Benzidine	11.151	184	158012	24.2098	ng	89
97)	Butylbenzylphthalate	12.034	149	604513	88.2195	ng	66
99)	3,3'-Dichlorobenzidine	12.654	252	470104	109.5221	ng	95
100)	Benzo[a]anthracene	12.681	228	1435135	90.2905	ng	98
101)	Chrysene	12.724	228	1339873	89.1176	ng	99
102)	bis(2-Ethylhexyl)phtha...	12.724	149	796413	93.1275	ng	87
104)	Di-n-octylphthalate	13.473	149	1425523	93.1692	ng	100
105)	Benzo[b]fluoranthene	13.890	252	1474847	90.9555	ng	93
106)	Benzo[k]fluoranthene	13.922	252	1504920	94.9376	ng	93
107)	Benzo[a]pyrene	14.243	252	1324610	85.1004	ng	91
108)	Indeno[1,2,3-cd]pyrene	15.591	276	1689421	93.3164	ng	92
109)	Dibenzo[a,h]anthracene	15.612	278	1393134	91.3180	ng	87
110)	Benzo[g,h,i]perylene	15.960	276	1359315	86.7541	ng	74

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M67917.D\data.ms
Quant QT Reviewed
SampleID : AD02667-001(T)(MS)
Data File: 10M67917.D
Acq On : 03/ 1/18 15:43
Operator : AH/JB
Sam Mult : 1 Vial# : 12
Misc : A,BNA
Qt Meth : 10M_0223.M
Qt On : 03/02/18 10:07
Qt Upd On: 02/23/18 14:04
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
2-Chlorophenol,P
N-Decane,P
Time-->
Abundance
TIC: 10M67917.D\data.ms
Caprolactam,P
4-Chloro-3-methylphenol,P
Isophorone,P
2,4-Dichlorophenol,P
Hexachlorobutadiene,P
2-Fluorobiphenyl,S
Dimethylphthalate,P
Acenaphthylene,M
Diethylphthalate,P
2,3,4,6-Tetrachlorophenol,P
Dibenzofuran,P
2,4-Dinitrotoluene,P
4-Bromophenyl-phenylether,P
Hexachlorobenzene,P
Atrazine,P
Pentachlorophenol,P
N-Octadecane,P
Phenanthrene,P
Anthracene,P
Carbazole,P
Di-n-butylphthalate,P
Fluoranthene,P
Benzidine,T
Pyrene,P
Time-->
Abundance
TIC: 10M67917.D\data.ms
Fluoranthene,P
Benzidine,T
Pyrene,P
Terphenyl-d14,S
Butylbenzylphthalate,P
Di-n-octylphthalate,P
Benzo[a]pyrene,P
Perylene-d12,I
Benzo[g,h,i]perylene,P
Time-->

Sample ID : AD02667-001(T)(MSD) Operator : AH/JB Qt Meth : 10M_0223.M
Data File: 10M67918.D Sam Mult : 1 Vial# : 13 Qt On : 03/02/18 10:07
Acq On : 03/ 1/18 16:05 Misc : A,BNA Qt Upd On: 02/23/18 14:04

Data Path : G:\GcMsData\2018\GCMS_10\Data\03-01-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
7) 1,4-Dioxane-d8(INT)	2.567	96	61837	40.00	ng	0.00
21) 1,4-Dichlorobenzene-d4	5.776	152	125684	40.00	ng	0.00
31) Naphthalene-d8	6.776	136	471009	40.00	ng	0.00
50) Acenaphthene-d10	8.193	164	287355	40.00	ng	0.00
77) Phenanthrene-d10	9.648	188	485975	40.00	ng	0.00
91) Chrysene-d12	12.692	240	547949	40.00	ng	0.00
103) Perylene-d12	14.296	264	520340	40.00	ng	0.00
System Monitoring Compounds						
11) 2-Fluorophenol	4.583	112	225541	63.89	ng	0.00
Spiked Amount 100.000			Recovery = 63.89%			
16) Phenol-d5	5.460	99	272420	62.87	ng	0.00
Spiked Amount 100.000			Recovery = 62.87%			
32) Nitrobenzene-d5	6.225	128	57389	31.26	ng	0.00
Spiked Amount 50.000			Recovery = 62.52%			
55) 2-Fluorobiphenyl	7.610	172	177049	18.43	ng	0.00
Spiked Amount 50.000			Recovery = 36.86%			
80) 2,4,6-Tribromophenol	8.931	330	135210	78.41	ng	0.00
Spiked Amount 100.000			Recovery = 78.41%			
94) Terphenyl-d14	11.445	244	394638	42.89	ng	0.00
Spiked Amount 50.000			Recovery = 85.78%			
Target Compounds						Qvalue
8) 1,4-Dioxane	2.604	88	86829	55.5970	ng	63
9) Pyridine	3.069	79	270210	58.8232	ng	68
10) N-Nitrosodimethylamine	3.000	74	167431	64.2300	ng	71
12) Benzaldehyde	5.407	77	246147	149.8717	ng	70
13) Aniline	5.498	93	579028	97.2626	ng	52
14) Pentachloroethane	5.540	117	98728	80.1156	ng	77
15) bis(2-Chloroethyl)ether	5.557	93	228349	53.7330	ng	78
17) Phenol	5.471	94	349633	64.6841	ng	78
18) 2-Chlorophenol	5.594	128	293525	66.9184	ng	78
19) N-Decane	5.637	57	274098	76.7142	ng	82
20) 1,3-Dichlorobenzene	5.728	146	79491	16.4385	ng	98
22) 1,4-Dichlorobenzene	5.792	146	85873	16.5580	ng	97
23) 1,2-Dichlorobenzene	5.915	146	90263	18.1893	ng	98
24) Benzyl alcohol	5.888	108	246768	83.2287	ng	66
25) bis(2-chloroisopropyl)...	6.000	45	181051	34.2394	ng	95
26) 2-Methylphenol	5.979	108	272615	64.6063	ng	94
27) Acetophenone	6.102	105	396132	84.4910	ng	70
28) Hexachloroethane	6.188	117	28773	15.7764	ng	91
29) N-Nitroso-di-n-propyla...	6.102	70	157462	57.9975	ng	65
30) 3&4-Methylphenol	6.097	108	272233	66.9779	ng	88
33) Nitrobenzene	6.241	77	222653	55.1257	ng	70
34) Isophorone	6.423	82	490997	64.2944	ng	82
35) 2-Nitrophenol	6.487	139	158527	71.3573	ng	76
36) 2,4-Dimethylphenol	6.509	107	273489	65.3289	ng	88
37) Benzoic Acid	6.578	105	112791m	49.5608	ng	
38) bis(2-Chloroethoxy)met...	6.583	93	316639	62.3930	ng	96
39) 2,4-Dichlorophenol	6.664	162	262835	69.3964	ng	87
40) 1,2,4-Trichlorobenzene	6.733	180	165289	38.7014	ng	97
41) Naphthalene	6.792	128	562740	39.6984	ng	100
42) 4-Chloroaniline	6.830	127	494309m	113.8023	ng	
43) Hexachlorobutadiene	6.878	225	76272	31.2362	ng	97
44) Caprolactam	7.113	113	122595	86.1387	ng	64
45) 4-Chloro-3-methylphenol	7.193	107	273592	76.3893	ng	68
46) 2-Methylnaphthalene	7.327	142	710136	78.5354	ng	100
47) 1-Methylnaphthalene	7.402	142	642073	72.7795	ng	94
48) Methylnaphthalenes (To...	7.327	142	1346603m	151.5123	ng	
49) 1,1'-Biphenyl	7.696	154	788692	79.3342	ng	94
51) 1,2,4,5-Tetrachloroben...	7.455	216	326506	82.7247	ng	99
52) Hexachlorocyclopentadiene	7.445	237	113858	44.4426	ng	97
53) 2,4,6-Trichlorophenol	7.541	196	216250	79.4542	ng	100
54) 2,4,5-Trichlorophenol	7.573	196	231357	79.4726	ng	98
56) 2-Chloronaphthalene	7.717	162	517619	60.1852	ng	90
57) 1,4-Dimethylnaphthalene	7.995	156	470515	82.6184	ng	86
58) Dimethylnaphthalenes (...	7.995	156	470515	82.6184	ng	86
59) Diphenyl Ether	7.782	170	479811	85.0126	ng	69
60) 2-Nitroaniline	7.798	65	236127	95.4413	ng	37
61) Coumarin	7.979	146	283168	98.0696	ng	86
62) Acenaphthylene	8.076	152	910614	72.3449	ng	100
63) Dimethylphthalate	7.937	163	714753	76.5926	ng	98
64) 2,6-Dinitrotoluene	7.995	165	153986	73.7575	ng	56
65) Acenaphthene	8.225	153	573396	68.5107	ng	98

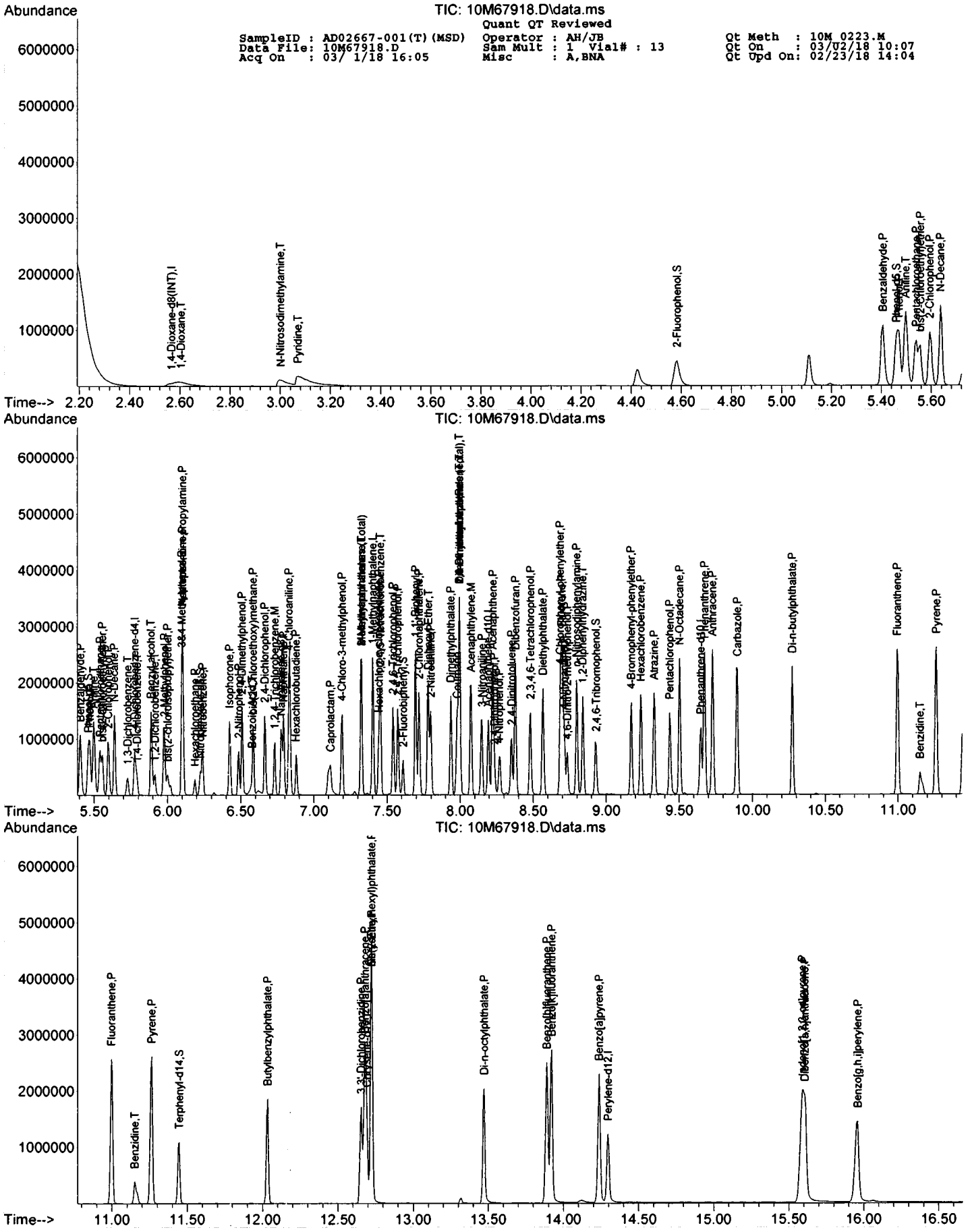
Quantitation Report (QT Reviewed)

SampleID : AD02667-001(T)(MSD) Operator : AH/JB Qt Meth : 10M_0223.M
Data File: 10M67918.D Sam Mult : 1 Vial# : 13 Qt On : 03/02/18 10:07
Acq On : 03/ 1/18 16:05 Misc : A,BNA Qt Upd On: 02/23/18 14:04

Data Path : G:\GcMsData\2018\GCMS_10\Data\03-01-18\
Qt Path : G:\GCMSDATA\2018\GCMS_10\MethodQt\
Qt Resp Via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) 3-Nitroaniline	8.151	138	265333	118.7946	ng	67
67) 2,4-Dinitrophenol	8.236	184	76956	67.2845	ng	30
68) Dibenzofuran	8.381	168	1071817	89.9924	ng	79
69) 2,4-Dinitrotoluene	8.354	165	219349	73.3446	ng	51
70) 4-Nitrophenol	8.268	65	112384	70.3864	ng	97
71) 2,3,4,6-Tetrachlorophenol	8.482	232	210106	79.9647	ng	80
72) Fluorene	8.696	166	703950	74.5543	ng	99
73) 4-Chlorophenyl-phenyle...	8.685	204	360002	73.0432	ng	78
74) Diethylphthalate	8.568	149	711163	80.7207	ng	94
75) 4-Nitroaniline	8.712	138	281212	101.5157	ng	64
76) Atrazine	9.327	200	236306	86.8914	ng	94
78) 4,6-Dinitro-2-methylph...	8.734	198	125396	77.6058	ng	78
79) n-Nitrosodiphenylamine	8.798	169	535075	65.9118	ng	99
81) 1,2-Diphenylhydrazine	8.841	77	636659	78.0813	ng	76
82) 4-Bromophenyl-phenylether	9.172	248	243818	79.4198	ng	75
83) Hexachlorobenzene	9.236	284	284812	78.2835	ng	57
84) N-Octadecane	9.504	57	415985	93.3402	ng	73
85) Pentachlorophenol	9.434	266	186767	87.5722	ng	97
86) Phenanthrene	9.675	178	1076065	77.1998	ng	100
87) Anthracene	9.728	178	1090403	77.6521	ng	99
88) Carbazole	9.900	167	1105494	84.8500	ng	97
89) Di-n-butylphthalate	10.274	149	1196315	81.5915	ng	97
90) Fluoranthene	10.996	202	1198696	81.5907	ng	95
92) Pyrene	11.264	202	1225819	80.8941	ng	88
93) Benzidine	11.151	184	166600	27.0362	ng	88
97) Butylbenzylphthalate	12.034	149	488191	74.6232	ng	66
99) 3,3'-Dichlorobenzidine	12.654	252	441177	108.0571	ng	95
100) Benzo[a]anthracene	12.681	228	1211034	80.2870	ng	100
101) Chrysene	12.724	228	1119750	77.3795	ng	99
102) bis(2-Ethylhexyl)phtha...	12.724	149	677354	82.4330	ng	88
104) Di-n-octylphthalate	13.473	149	1152954	80.5147	ng	100
105) Benzo[b]fluoranthene	13.890	252	1247272	83.3717	ng	93
106) Benzo[k]fluoranthene	13.922	252	1217355	83.2373	ng	92
107) Benzo[a]pyrene	14.237	252	1106087	77.0209	ng	91
108) Indeno[1,2,3-cd]pyrene	15.591	276	1375474	82.3470	ng	79
109) Dibenzo[a,h]anthracene	15.607	278	1125725	79.9782	ng	88
110) Benzo[g,h,i]perylene	15.960	276	1099102	76.0297	ng	74

(#) = qualifier out of range (m) = manual integration (+) = signals summed


Abundance
TIC: 10M67918.D\data.ms
Quant QT Reviewed
SampleID : AD02667-001(T)(MSD)
Data File: 10M67918.D
Acq On : 03/ 1/18 16:05
Operator : AH/JB
Sam Mult : 1 Vial# : 13
Misc : A,BNA
Qt Meth : 10M_0223.M
Qt On : 03/02/18 10:07
Qt Upd On: 02/23/18 14:04
1,4-Dioxane-d8(INT),I
1,4-Dioxane,T
N-Nitrosodimethylamine,T
Pyridine,T
2-Fluorophenol,S
Benzaldehyde,P
Aniline,T
2-Chlorophenol,P
N-Decane,P
Time-->

GC/MS Base Neutral/Acid Extractable Data
Logbook Data

Hampton-Clarke

QC66108

Extraction of Semi-volatile – Aqueous
Method 3510 C

Method Blank No. WMB- _____
Blank Spike (MBS): _____
Start extraction time: 8:00 AM
End extraction time: 3:00 PM
Recirculator: Start temp: 15.5°C
End temp: 15.5°C

Date: 3/1/18
Matrix Spike: 66108
Shaker Used: 4,5,6,7
Condenser used: 6,7,8
Condenser Flow: 2500 CCM

Sample Number	# In Batch	Initial Volume	Final Volume	pH Verification NaOH ≥12	pH Verification H2SO4 <2	Fraction BN	Fraction BNA	Fraction AE	Extracted By/ Comments Extract Fluid	Ext. by	TCLP QC
MB 66108	X	1000 mL	1 mL	X	X		X		SPL 274098 2/28	AP/	02667
MBS 66108	↓	↓	↓	↓	↓		↓		SPL 274098 2/24	DYR	-001
MS 02667-001		250 mL							SPL 274098 2/27	↓	
MSD 02667-001	↓	↓	↓								
AD 02667-001	1	500 mL	0.5 mL		↓		↓		1 (2/27)		1
↓ -006	2					X			2 ↓		2
↓ -009	3								3 ↓		3
AD 02568-007	4								1 (2/24)		4
AD 02637-074	5								1 (2/28)		5
AD 02805-002	6								2 ↓		6
SPLP 274098 2/28	X										
SPLP 274098 2/24	X										
SPLP 274098 2/27	X	↓	↓			↓					
AD 02812-001	7	1000 mL	1 mL		X		X				
AD 02843-003	8										
AD 02799-002	9				↓		↓				
AD 02791-001	10										
↓ -002	11										
↓ -003	12										
AD 02792-001	13										
↓ -002	14										
AD 02820-001	15										
AD 02834-001	16										
↓ -002	17	↓	↓	↓						↓	

Spike Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	2000	11459	BN MIX
↓	↓	11454	ACID COMP
		11322	TOXIC MIX
↓	↓	270413	CLP MIX

Surrogate Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	1000/2000	264805	BN SURROG

Reagent Lots: MeCl2 11484 Acetone _____ Hexane _____ Na2SO4 11486

Other _____

Relinquished By: AP / DYR Date: 3/1/18

Received By: [signature] Date: 3/2/18

T:\QC\FORMS\LOGBOOK FORMS\extractions\BN Aqu_ Ext Log 2018.doc

RUN LOG

Instrument: GCMS_5_Year_2018
Analyst: AH/JB

8022605.D283

1-1-5M102988

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
5M102988.	CAL DFTPP	Ed1=1;	OK, V-273104	JB 02/26/18		Aqueous	1	1		02/23 08:50
5M102989.	CAL BNA@10PPM		OK, V-274305	JB 02/26/18		Aqueous	1	1	625\827	02/23 09:19
5M102990.	CAL BNA@2PPM		OK, V-274313	JB 02/26/18		Aqueous	1	1	625\827	02/23 09:46
5M102991.	CAL BNA@196PPM		OK, V-274311	JB 02/26/18		Aqueous	1	1	625\827	02/23 10:09
5M102992.	CAL BNA@160PPM		OK, V-274310	JB 02/26/18		Aqueous	1	1	625\827	02/23 10:33
5M102993.	CAL BNA@120PPM		OK, V-274309	JB 02/26/18		Aqueous	1	1	625\827	02/23 10:56
5M102994.	CAL BNA@80PPM		OK, V-274308	JB 02/26/18		Aqueous	1	1	625\827	02/23 11:19
5M102995.	CAL BNA@20PPM		OK, V-274306	JB 02/26/18		Aqueous	1	1	625\827	02/23 11:43
5M102996.	CAL BNA@.5PPM		OK, V-274314	JB 02/26/18		Aqueous	1	1	625\827	02/23 12:06
5M102997.	CAL BNA@50PPM		OK, V-274307	JB 02/26/18		Aqueous	1	1	625\827	02/23 12:30
5M102998.	ICV BNA@50PPM	Is	OK, V-273383	JB 02/26/18		Aqueous	1	1	625\827	02/23 12:55

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tdn/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for enh
B8m	Blank 8000 series missing	Eto	Tdn Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rnd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calml.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Co	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: GCMS_10Year 2018
Analyst: AH/JB

8022605 0284

1-1-10M67809

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
10M67809.	CAL DFTPP	Ed1=1.1;	OK, V-273104	JB 02/26/18		Aqueous	1	1		02/23 08:45
10M67810.	CAL BNA@10PPM	IsC16C18	RR	JB 02/26/18		Aqueous	1	1	625\827	02/23 09:15
10M67811.	CAL BNA@10PPM		OK, V-274305	JB 02/26/18		Aqueous	1	1	625\827	02/23 10:05
10M67812.	CAL BNA@2PPM		OK, V-274313	JB 02/26/18		Aqueous	1	1	625\827	02/23 10:27
10M67813.	CAL BNA@196PPM		OK, V-274311	JB 02/26/18		Aqueous	1	1	625\827	02/23 10:49
10M67814.	CAL BNA@160PPM		OK, V-274310	JB 02/26/18		Aqueous	1	1	625\827	02/23 11:11
10M67815.	CAL BNA@120PPM		OK, V-274309	JB 02/26/18		Aqueous	1	1	625\827	02/23 11:33
10M67816.	CAL BNA@80PPM		OK, V-274308	JB 02/26/18		Aqueous	1	1	625\827	02/23 11:55
10M67817.	CAL BNA@20PPM		OK, V-274306	JB 02/26/18		Aqueous	1	1	625\827	02/23 12:17
10M67818.	CAL BNA@.5PPM		OK, V-274314	JB 02/26/18		Aqueous	1	1	625\827	02/23 12:40
10M67819.	CAL BNA@50PPM		OK, V-274307	JB 02/26/18		Aqueous	1	1	625\827	02/23 13:02
10M67820.	ICV BNA@50PPM		OK, V-273383	JB 02/26/18		Aqueous	1	1	625\827	02/23 13:24
10M67821.	AD02489-021(T)		OK	JB 02/26/18	BN-SPLP-827	Aqueous	1	1	8270D	02/23 13:48
10M67822.	AD02488-013(T)		OK	JB 02/26/18	BN-SPLP-827	Aqueous	1	1	8270D	02/23 14:10
10M67823.	AD02488-005(T)		OK	JB 02/26/18	BN-SPLP-827	Aqueous	1	1	8270D	02/23 14:32
10M67824.	AD02309-015(T)	Sb8EoEto	OK	JB 02/26/18	BNPSPLP-82	Aqueous	1	1	8270D	02/23 14:54
10M67825.	EF-SPLP V-273224(		OK	JB 02/26/18		Aqueous	1	2	8270D	02/23 15:16
10M67826.	EF-SPLP V-273224(		OK	JB 02/26/18		Aqueous	1	2	8270D	02/23 15:39

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 ... not checked
B6m	Blank 600 series missing	Etn	Tdn/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for anh
B8m	Blank 8000 series missing	Eto	Tdn Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rnd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method.	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
10M67906.	CAL DFTPP	Ed1=1.9;	OK, V-273104	JB 03/01/18		Aqueous	1	1		03/01 09:28
10M67907.	CAL BNA@50PPM		OK, V-274307	JB 03/01/18		Aqueous	1	1	625\827	03/01 09:50
10M67908.	AD02551-003(T)	Sa8Esm	OK	JB 03/02/18	BNA15-8270	Aqueous	1	1	8270D	03/01 12:24
10M67909.	AD02551-008(T)	Sa8Esm	OK	JB 03/02/18	BNA15-8270	Aqueous	1	1	8270D	03/01 12:46
10M67910.	AD02552-022(T)	Sa8Esm	OK	JB 03/02/18	BNA15-8270	Aqueous	1	1	8270D	03/01 13:08
10M67911.	AD02552-037(T)	Sa8Esm	OK	JB 03/02/18	BNA15-8270	Aqueous	1	1	8270D	03/01 13:30
10M67912.	WMB66108(MS)	M16M18	OK WMB66108	JB 03/01/18		Aqueous	1	1	625\827	03/01 13:52
10M67913.	WMB66109(MS)		OK WMB66109	JB 03/01/18		Aqueous	1	1	625\827	03/01 14:14
10M67914.	WMB66108		OK	JB 03/02/18		Aqueous	1	1	625\827	03/01 14:37
10M67915.	WMB66109		OK	JB 03/02/18		Aqueous	1	1	625\827	03/01 14:59
10M67916.	AD02667-001(T)	Sa6Sa8Eo	OK	JB 03/02/18	BNPAH-8270	Aqueous	1	1	625\827	03/01 15:21
10M67917.	AD02667-001(T)(M	Sb6Sb8EoM1 6M18	OK WMB66108	JB 03/02/18	BNPAH-8270	Aqueous	1	1	625\827	03/01 15:43
10M67918.	AD02667-001(T)(M	Sb6Sb8EoR1 6R18M16M18	OK WMB66108	JB 03/02/18	BNPAH-8270	Aqueous	1	1	625\827	03/01 16:05
10M67919.	AD02815-001		OK	JB 03/02/18	BN15-625	Aqueous	0.5	1	625\827	03/01 16:27
10M67920.	AD02815-001(MS)		OK	JB 03/02/18	BN15-625	Aqueous	1	1	625\827	03/01 16:49
10M67921.	AD02815-001(MSD)		OK	JB 03/02/18	BN15-625	Aqueous	1	1	625\827	03/01 17:11
10M67922.	AD02792-001		OK	JB 03/02/18	BN15-8270	Aqueous	1	1	8270D	03/01 17:34
10M67923.	AD02792-002		OK	JB 03/02/18	BN15-8270	Aqueous	1	1	8270D	03/01 17:56
10M67924.	AD02843-003		OK	JB 03/02/18	BNA-8270	Aqueous	1	1	8270D	03/01 18:18
10M67925.	AD02826-011		OK	JB 03/02/18	BN15-8270	Aqueous	1	1	8270D	03/01 18:40
10M67926.	AD02838-001		OK	JB 03/02/18	BN15-8270	Aqueous	1	1	8270D	03/01 19:02
10M67927.	AD02838-002	Emp	OK	JB 03/02/18	BN15-8270	Aqueous	1	1	8270D	03/01 19:24
10M67928.	AD02838-003	Emp	OK	JB 03/02/18	BN15-8270	Aqueous	1	1	8270D	03/01 19:46
10M67929.	AD02815-002		OK	JB 03/02/18	BN15-625	Aqueous	1	1	625	03/01 20:08
10M67930.	AD02815-003		OK	JB 03/02/18	BN15-625	Aqueous	1	1	625	03/01 20:30
10M67931.	AD02815-004		OK	JB 03/02/18	BN15-625	Aqueous	1	1	625	03/01 20:52
10M67932.	AD02815-005		OK	JB 03/02/18	BN15-625	Aqueous	1	1	625	03/01 21:15
10M67933.	AD02815-006		OK	JB 03/02/18	BN15-625	Aqueous	1	1	625	03/01 21:37

Anc	Area Not Checked	Ec	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20... not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for anh
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmd csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)



1-1-5M103126

RUN LOG

Instrument: GCMS_5_Year_2018
Analyst: AH/JB

8022605.D286

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
5M103126.	CAL DFTPP	Ed1=1.1;	OK, V-273104	JB 03/02/18		Aqueous	1	1		03/01 09:55
5M103127.	CAL BNA@50PPM		OK, V-274307	JB 03/02/18		Aqueous	1	1	625\827	03/01 10:19
5M103128.	WMB66100		OK	JB 03/02/18		Aqueous	1	1	625\827	03/01 10:45
5M103129.	EF-SPLP V-273224(		OK	JB 03/02/18		Aqueous	1	2	8270D	03/01 11:12
5M103130.	EF-SPLP V-273224		OK	JB 03/02/18		Aqueous	1	2	8270D	03/01 11:35
5M103131.	EF-SPLP V-273224		OK	JB 03/02/18		Aqueous	1	2	8270D	03/01 11:58
5M103132.	EF-SPLP V-273224	Sb8	OK	JB 03/02/18		Aqueous	1	2	8270D	03/01 12:21
5M103133.	EF-SPLP V-273224		OK	JB 03/02/18		Aqueous	1	2	8270D	03/01 12:45
5M103134.	AD02534-066(T)	Sa8Esm	OK	JB 03/02/18	BNA15-8270	Aqueous	1	1	8270D	03/01 13:08
5M103135.	AD02534-068(T)	Sa8Esm	OK	JB 03/02/18	BNA15-8270	Aqueous	1	1	8270D	03/01 13:31
5M103136.	AD02534-073(T)	Sa8Esm	OK	JB 03/02/18	BNA15-8270	Aqueous	1	1	8270D	03/01 13:54
5M103137.	AD02688-004(R)	Sb8Eo	OK	JB 03/01/18	BN15-8270	Aqueous	1	1	8270D	03/01 14:17
5M103138.	AD02535-003(T)	Sb8Eo	RE-EXTRACT	JB 03/01/18	BNPAH-8270	Aqueous	1	1	8270D	03/01 14:40
5M103139.	WMB66108		OK	JB 03/01/18		Aqueous	1	1	625\827	03/01 15:04
5M103140.	WMB66109		OK	JB 03/02/18		Aqueous	1	1	625\827	03/01 15:27
5M103141.	AD02833-001		OK	JB 03/02/18	BNPAH-8270	Aqueous	1	1	8270D	03/01 16:03
5M103142.	AD02799-002		OK	JB 03/02/18	BNA-8270	Aqueous	1	1	8270D	03/01 16:26
5M103143.	AD02837-001	Sb8	RE-EXTRACT	JB 03/02/18	BN15-8270	Aqueous	1	1	8270D	03/01 16:50
5M103144.	AD02837-002		OK	JB 03/02/18	BN15-8270	Aqueous	1	1	8270D	03/01 17:13
5M103145.	AD02837-004		OK	JB 03/02/18	BN15-8270	Aqueous	1	1	8270D	03/01 17:36
5M103146.	AD02837-003	Sb8	OK	JB 03/02/18	BN15-8270	Aqueous	1	1	8270D	03/01 17:59
5M103147.	AD02820-001		OK	JB 03/02/18	BN-625	Aqueous	1	1	625	03/01 18:22
5M103148.	AD02791-001		OK	JB 03/02/18	BN-625	Aqueous	1	1	625	03/01 18:46
5M103149.	AD02791-002		OK	JB 03/02/18	BN-625	Aqueous	1	1	625	03/01 19:09
5M103150.	AD02791-003		OK	JB 03/02/18	BN-625	Aqueous	1	1	625	03/01 19:32
5M103151.	AD02812-001	Sa6	RE-EXTRACT	JB 03/02/18	BNA-625	Aqueous	1	1	625	03/01 19:56
5M103152.	AD02834-001	Sb6Ocf	RE-EXTRACT	JB 03/02/18	BN15-625	Aqueous	1	1	625	03/01 20:19
5M103153.	AD02834-002	Sb6Ocf	RE-EXTRACT	JB 03/02/18	BN15-625	Aqueous	1	1	625	03/01 20:43

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Eln	Tclo/Solvent Extraction Data Missing/Not check'd	Cro	C30/C20 failed for enh
B8m	Blank 8000 series missing	Elo	Tclo Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rsd Out on MsMsd (col1 and or col2\ 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rsd Out on MsMsd (col1 and or col2\ 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Co	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-251296

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(2nd Source)(DAN
Prep Date: 3/2/2017
Expiration Date: 3/2/2018
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 03/03/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9403	CAPROLACTUM	.25 g	NEAT neat	10000 ppm
9155	1,2,4,5-Tetrachlorobenzene	.25 g	NEAT neat	10000 ppm
10779	Atrazine	.25 g	Neat neat	10000 ppm
9402	ACETOPHENONE	.25 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.25 g	NEAT neat	10000 ppm
9150	Benzaldehyde	.25 g	NEAT neat	10000 ppm
10781	1-Methylnaphthalene	.2626 g	95.2% neat	10000 ppm
10780	1,4-Dioxane	.25 g	NEAT neat	10000 ppm
10750	ACETONE	25 ml	neat neat	

Veritech Lot Number: V-260254

Prepared By: Hamid, Akmal
Description: BNA Internal Std.
Prep Date: 7/24/2017
Expiration Date: 7/24/2018
Department: Organics
BatchNumber:
Concentration: 2000 ppm
Final Volume: 250 ml
ApprovedBy: akmal
ApproveDate: 07/24/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9325	Naphthlene,d8	.5 g	NEAT neat	2000 ppm
9326	Phenanthrene, d10	.5 g	NEAT neat	2000 ppm
9327	Chrysene,d12	.5 g	NEAT neat	2000 ppm
9328	Perylene, d12	.5 g	NEAT neat	2000 ppm
6948	1,4-Dichlorobenzene(D4)	.5 g	neat neat	2000 ppm
9329	Acenaphthene, d10	.5 g	NEAT neat	2000 ppm
10051	1,4-Dioxane-D8	.5 g	NEAT neat	2000 ppm
10789	methylene chloride	250 ml	neat neat	

Veritech Lot Number: V-263094

Prepared By: Bis, Yolanta
Description: Pyridine Stock Std.
Prep Date: 9/11/2017
Expiration Date: 9/11/2018
Department: Organics
BatchNumber:
Concentration: 10,000 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 09/13/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9045	PYRIDINE	10 ul	NEAT neat	10000 ppm
10789	methylene chloride	990 ul	neat neat	

Veritech Lot Number: V-264390

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#2A
Prep Date: 9/29/2017
Expiration Date: 9/29/2018
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 09/29/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11044	Pyridine	.25 g	neat neat	10000 ppm
9753	Carbazole	.25 g	neat neat	10000 ppm
9726	Biphenyl	.25 g	Neat neat	10000 ppm
11201	N-Decane	.25 g	NEAT neat	10000 ppm
11200	n-Octadecane	.25 g	NEAT neat	10000 ppm
9756	Pentachloroethane	.25 g	neat neat	10000 ppm
9435	1,4-Dimethylnaphthalene	.263 g	95 %	10000 ppm
9755	Coumarin	.25 g	neat neat	10000 ppm
11164	Acetone	25 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-264693

Prepared By: Hamid, Akmal
Description: BNA-7 MIX
Prep Date: 10/5/2017
Expiration Date: 10/5/2018
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 10/06/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9757	3,4-Dichlorophenol	.05 g	neat neat	5000 ppm
9726	Biphenyl	.05 g	Neat neat	5000 ppm
9755	Coumarin	.05 g	neat neat	5000 ppm
11200	n-Octadecane	.05 g	NEAT neat	5000 ppm
9756	Pentachloroethane	.05 g	neat neat	5000 ppm
9435	1,4-Dimethylnaphthalene	.0518 g	95 %	5000 ppm
11201	N-Decane	.05 g	NEAT neat	5000 ppm
11184	acetone	10 ml	neat neat	

Veritech Lot Number: V-264694

Prepared By: Hamid, Akmal
Description: BNA-8 MIX
Prep Date: 10/5/2017
Expiration Date: 10/5/2018
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 10/06/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
7460	2,3,4,6,-Tetrachlorophenol	.05 g	Neat neat	5000 ppm
9757	3,4-Dichlorophenol	.05 g	neat neat	5000 ppm
9726	Biphenyl	.05 g	Neat neat	5000 ppm
9755	Coumarin	.05 g	neat neat	5000 ppm
11200	n-Octadecane	.05 g	NEAT neat	5000 ppm
9756	Pentachloroethane	.05 g	neat neat	5000 ppm
9435	1,4-Dimethylnaphthalene	.0518 g	95 %	5000 ppm
11201	N-Decane	.05 g	NEAT neat	5000 ppm
11184	acetone	10 ml	neat neat	

Veritech Lot Number: V-264805

Prepared By: Hamid, Akmal
Description: BNA Surrog.Std.
Prep Date: 10/6/2017
Expiration Date: 10/6/2018
Department: Organics
BatchNumber:
Concentration: 1000-2000 pp
Final Volume: 1000 ml
ApprovedBy: akmal
ApproveDate: 10/06/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
7755	2-Fluorobiphenyl	1 g	Neat neat	1000 ppm
8748	p-Terphenyl-d14	1 g	Neat neat	1000 ppm
10521	Phenol-2,3,4,5,6-d5	2 g	NEAT neat	2000 ppm
10572	2,4,6-Tribromophenol	2 g	NEAT neat	2000 ppm
8746	Nitrobenzene-d5	800 ul	NEAT neat	1000 ppm
8747	2-Fluorophenol	1.6 ml	NEAT neat	2000 ppm
11184	acetone	1000 ml	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-269657

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(2nd Source)(DAN
Prep Date: 12/18/2017
Expiration Date: 12/18/2018
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 12/18/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9154	Caprolactum	.25 g	NEAT neat	10000 ppm
9155	1,2,4,5-Tetrachlorobenzene	.25 g	NEAT neat	10000 ppm
10779	Atrazine	.25 g	Neat neat	10000 ppm
9402	ACETOPHENONE	.25 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.25 g	NEAT neat	10000 ppm
10781	1-Methylnaphthalene	.2626 g	95.2% neat	10000 ppm
10780	1,4-Dioxane	.25 g	NEAT neat	10000 ppm
11299	Acetone	25 ml	neta neta	

Veritech Lot Number: V-269658

Prepared By: Hamid, Akmal
Description: Benzaldehyde Std
Prep Date: 12/18/2017
Expiration Date: 12/18/2018
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 25 ml
ApprovedBy: akmal
ApproveDate: 12/18/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9150	Benzaldehyde	.25 g	NEAT neat	10000 ppm
11299	Acetone	25 ml	neta neta	

Veritech Lot Number: V-269839

Prepared By: Hamid, Akmal
Description: 8270 EXTRA MIX#1(DANGER)
Prep Date: 12/18/2017
Expiration Date: 12/18/2018
Department: Organics
BatchNumber:
Concentration: 10000 ppm
Final Volume: 10 ml
ApprovedBy: jean
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9154	Caprolactum	.1 g	NEAT neat	10000 ppm
9155	1,2,4,5-Tetrachlorobenzene	.1 g	NEAT neat	10000 ppm
10779	Atrazine	.1 g	Neat neat	10000 ppm
9402	ACETOPHENONE	.1 g	NEAT neat	10000 ppm
9149	Diphenyl Ether	.1 g	NEAT neat	10000 ppm
10780	1,4-Dioxane	.1 g	NEAT neat	10000 ppm
10789	methylene chloride	10 ml	neat neat	

Veritech Lot Number: V-269873

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.B(DANGER)
Prep Date: 12/19/2017
Expiration Date: 5/20/2018
Department: Organics
BatchNumber:
Concentration: 250 ppm
Final Volume: 1.2 ml
ApprovedBy: akmal
ApproveDate: 12/26/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
10705	TCL PAH MIX	150 ul	2000 ppm	250 ppm
10706	TCL PHENOLS/BENZIDINE MIX	150 ul	2000 ppm	250 ppm
10707	TCL Hazardous Substances Mix	150 ul	2000 ppm	250 ppm
10708	TCL Base-Neutral Mix	150 ul	2000 ppm	250 ppm
V-264805	BNA Surrog.Std.	150 ul	1000-2000 pp	125-250 pp
V-263094	Pyridine Stock Std.	30 ul	10,000 ppm	250 ppm
V-264694	BNA-8 MIX	60 ul	5000 ppm	250 ppm
11298	methylene chloride	360 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-270413

Prepared By: Bis, Yolanta
Description: CLP SPK (AQ)(DANGER)
Prep Date: 12/28/2017
Expiration Date: 3/2/2018
Department: Organics
BatchNumber:
Concentration: 2000 ppm
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 01/11/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-251296	8270 EXTRA MIX#1(2nd Source)(DANGER)	2 ml	10000 ppm	2000 ppm
V-264390	8270 EXTRA MIX#2A	2 ml	10000 ppm	2000 ppm
11330	Acetone	6 ml	neat neat	

Veritech Lot Number: V-270853

Prepared By: Hamid, Akmal
Description: BNA-Pest Mix
Prep Date: 1/5/2018
Expiration Date: 11/30/2018
Department: Organics
BatchNumber:
Concentration: 5000 ppm
Final Volume: 10 ml
ApprovedBy: jean
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11366	4,4' -DDD	.05 g	NEAT neat	5000 ppm
7908	4,4'-DDE	.05 g	neat neat	5000 ppm
9939	4,4'-DDT	.05 g	neat neat	5000 ppm
10789	methylene chloride	10 ml	neat neat	

Veritech Lot Number: V-273098

Prepared By: Hamid, Akmal
Description: DFTPP STOCK STD.
Prep Date: 2/8/2018
Expiration Date: 3/31/2018
Department: Organics
BatchNumber:
Concentration: 2000 ppm
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 02/08/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9618	DFTPP	.01 g	Neat neat	2000 ppm
11370	Methylene Chloride	5 ml	neat neat	

Veritech Lot Number: V-273104

Prepared By: Bis, Yolanta
Description: DFTPP Mix
Prep Date: 2/8/2018
Expiration Date: 3/31/2018
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 2 ml
ApprovedBy: akmal
ApproveDate: 02/12/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-273098	DFTPP STOCK STD.	50 ul	2000 ppm	50 ppm
10978	DDT-Endrin Mix	400 ul	500 ppm	100 ppm
10706	TCL PHENOLS/BENZIDINE MIX	100 ul	2000 ppm	100 ppm
11370	Methylene Chloride	1450 ul	neat neat	

Veritech Lot Number: V-273383

Prepared By: Bis, Yolanta
Description: BNA ICV CAL@50ppm(DANGER)
Prep Date: 2/9/2018
Expiration Date: 5/20/2018
Department: Organics
BatchNumber:
Concentration: 50 ppm
Final Volume: 0.2 ml
ApprovedBy: akmal
ApproveDate: 02/12/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-269873	BNA STOCK Std.B(DANGER)	40 ul	250 ppm	50 ppm
v-269657	8270 EXTRA MIX#1(2nd Source)(DANGER)	1 ul	10000 ppm	50 ppm
V-269658	Benzaldehyde Std	1 ul	10000 ppm	50 ppm
V-260254	BNA Internal Std.	4 ul	2000 ppm	40 ppm
10789	methylene chloride	154 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-274303

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.A (DANGER)
Prep Date: 2/23/2018
Expiration Date: 8/23/2018
Department: Organics
BatchNumber:
Concentration: 250 ppm
Final Volume: 1.2 ml
ApprovedBy: jean
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11125	8270 MegaMix	300 ul	1000 ppm	250 ppm
11085	Benzoic Acid	150 ul	2000 ppm	250 ppm
11368	TCL Benzidines Mix	150 ul	2000 ppm	250 ppm
V-264805	BNA Surrog.Std.	150 ul	1000-2000 pp	125-250 pp
v-270853	BNA-Pest Mix	60 ul	5000 ppm	250 ppm
V-264693	BNA-7 MIX	60 ul	5000 ppm	250 ppm
10789	methylene chloride	330 ul	neat neat	

Veritech Lot Number: V-274304

Prepared By: Bis, Yolanta
Description: BNA STOCK Std.(DANGER)
Prep Date: 2/23/2018
Expiration Date: 8/23/2018
Department: Organics
BatchNumber:
Concentration: 200 ppm
Final Volume: 500 ul
ApprovedBy: jean
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
v-269839	8270 EXTRA MIX#1(DANGER)	10 ul	10000 ppm	250 ppm
v-274303	BNA STOCK Std.A (DANGER)	400 ul	250 ppm	250 ppm
V-269658	Benzaldehyde Std	10 ul	10000 ppm	250 ppm
10789	methylene chloride	80 ul	neat neat	

Veritech Lot Number: V-274305

Prepared By: Bis, Yolanta
Description: BNA 10 ppm curve(DANGER)
Prep Date: 2/23/2018
Expiration Date: 7/24/2018
Department: Organics
BatchNumber: B-24605
Concentration: 10 ppm
Final Volume: 100 ul
ApprovedBy: jean
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274304	BNA STOCK Std.(DANGER)	5 ul	200 ppm	10 ppm
V-260254	BNA Internal Std.	2 ul	2000 ppm	40 ppm
10789	methylene chloride	93 ul	neat neat	

Veritech Lot Number: V-274306

Prepared By: Bis, Yolanta
Description: BNA 20 ppm curve(DANGER)
Prep Date: 2/23/2018
Expiration Date: 7/24/2018
Department: Organics
BatchNumber: B-24605
Concentration: 20 ppm
Final Volume: 100 ul
ApprovedBy: jean
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274304	BNA STOCK Std.(DANGER)	10 ul	200 ppm	20 ppm
V-260254	BNA Internal Std.	2 ul	2000 ppm	40 ppm
10789	methylene chloride	88 ul	neat neat	

Veritech Lot Number: V-274307

Prepared By: Bis, Yolanta
Description: BNA 50 ppm curve(DANGER)
Prep Date: 2/23/2018
Expiration Date: 7/24/2018
Department: Organics
BatchNumber: B-24605
Concentration: 50 ppm
Final Volume: 600 ul
ApprovedBy: jean
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274304	BNA STOCK Std.(DANGER)	150 ul	200 ppm	50 ppm
V-260254	BNA Internal Std.	12 ul	2000 ppm	40 ppm
10789	methylene chloride	438 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-274308

Prepared By: Bis, Yolanta
Description: BNA 80 ppm curve(DANGER)
Prep Date: 2/23/2018
Expiration Date: 7/24/2018
Department: Organics
BatchNumber: B-24605
Concentration: 80 ppm
Final Volume: 100 ul
ApprovedBy: jean
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274304	BNA STOCK Std.(DANGER)	40 ul	200 ppm	80 ppm
V-260254	BNA Internal Std.	2 ul	2000 ppm	40 ppm
10789	methylene chloride	58 ul	neat neat	

Veritech Lot Number: V-274309

Prepared By: Bis, Yolanta
Description: BNA 120 ppm curve(DANGER)
Prep Date: 2/23/2018
Expiration Date: 7/24/2018
Department: Organics
BatchNumber: B-24605
Concentration: 120 ppm
Final Volume: 100 ul
ApprovedBy: jean
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274304	BNA STOCK Std.(DANGER)	60 ul	200 ppm	120 ppm
V-260254	BNA Internal Std.	2 ul	2000 ppm	40 ppm
10789	methylene chloride	38 ul	neat neat	

Veritech Lot Number: V-274310

Prepared By: Bis, Yolanta
Description: BNA 160 ppm curve(DANGER)
Prep Date: 2/23/2018
Expiration Date: 7/24/2018
Department: Organics
BatchNumber: B-24605
Concentration: 160 ppm
Final Volume: 100 ul
ApprovedBy: jean
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274304	BNA STOCK Std.(DANGER)	80 ul	200 ppm	160 ppm
V-260254	BNA Internal Std.	2 ul	2000 ppm	40 ppm
10789	methylene chloride	18 ul	neat neat	

Veritech Lot Number: V-274311

Prepared By: Bis, Yolanta
Description: BNA 196 ppm curve(DANGER)
Prep Date: 2/23/2018
Expiration Date: 7/24/2018
Department: Organics
BatchNumber: B-24605
Concentration: 196 ppm
Final Volume: 100 ul
ApprovedBy: jean
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274304	BNA STOCK Std.(DANGER)	98 ul	200 ppm	196 ppm
V-260254	BNA Internal Std.	2 ul	2000 ppm	40 ppm
10789	methylene chloride	0	neat neat	

Veritech Lot Number: V-274312

Prepared By: Bis, Yolanta
Description: BNA 50 ppm curve(DANGER)
Prep Date: 2/23/2018
Expiration Date: 7/24/2018
Department: Organics
BatchNumber: B-24605
Concentration: 50 ppm
Final Volume: 100 ul
ApprovedBy: jean
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274304	BNA STOCK Std.(DANGER)	25 ul	200 ppm	50 ppm
10789	methylene chloride	75 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-274313

Prepared By:	Bis, Yolanta	Department: Organics	ApprovedBy: jean
Description:	BNA 2 ppm curve(DANGER)	BatchNumber: B-24605	ApproveDate: 02/27/18
Prep Date:	2/23/2018	Concentration: 2 ppm	Checked: Yes
Expiration Date:	7/24/2018	Final Volume: 100 ul	

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274312	BNA 50 ppm curve(DANGER)	4 ul	50 ppm	2 ppm
V-260254	BNA Internal Std.	2 ul	2000 ppm	40 ppm
10789	methylene chloride	94 ul	neat neat	

Veritech Lot Number: V-274314

Prepared By:	Bis, Yolanta	Department: Organics	ApprovedBy: jean
Description:	BNA 0.5 ppm curve(DANGER)	BatchNumber: B-24605	ApproveDate: 02/27/18
Prep Date:	2/23/2018	Concentration: 0.5 ppm	Checked: Yes
Expiration Date:	7/24/2018	Final Volume: 100 ul	

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274312	BNA 50 ppm curve(DANGER)	1 ul	50 ppm	2 ppm
V-260254	BNA Internal Std.	2 ul	2000 ppm	40 ppm
10789	methylene chloride	97 ul	neat neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 6948

Description
1,4-Dichlorobenzene(D4)

ApprovedBy: akmal
ApproveDate: 04/23/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CIL	DLM-268-0	PR-18488/07257CB2	04/19/12	04/19/20	Hamid, Akmal	1	5g	neat	neat

Veritech Control/Receipt Number: 7460

Description
2,3,4,6,-Tetrachlorophenol

ApprovedBy: akmal
ApproveDate: 11/11/12
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-10599-50MG	973100	11/09/12	11/30/18	Hamid, Akmal	10	50mg	Neat	Neat

Veritech Control/Receipt Number: 7755

Description
2-Fluorobiphenyl

ApprovedBy: jean
ApproveDate: 03/11/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Aldrich	102741-10G	MKBN8688V	03/07/13	03/07/23	Hamid, Akmal	1	10G	Neat	Neat

Veritech Control/Receipt Number: 7908

Description
4,4'-DDE

ApprovedBy: akmal
ApproveDate: 05/22/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	N-10875-100MG	1487800	05/22/13	11/30/18	Hamid, Akmal	5	100m	neat	neat

Veritech Control/Receipt Number: 8746

Description
Nitrobenzene-d5

ApprovedBy: akmal
ApproveDate: 06/10/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Aldrich	151955-5g	MBBB1337V	06/10/14	03/17/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 8747

Description
2-Fluorophenol

ApprovedBy: akmal
ApproveDate: 06/10/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Sigma-Aldrich	F12804	STBC5591V	06/10/14	03/17/25	Hamid, Akmal	1	10G	NEAT	NEAT

Veritech Control/Receipt Number: 8748

Description
p-Terphenyl-d14

ApprovedBy: akmal
ApproveDate: 06/10/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Sigma-Aldrich	364630-500mg	EB2136V	06/10/14	03/17/25	Hamid, Akmal	3	500m	Neat	Neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 9045

Description
PYRIDINE

ApprovedBy: aurora
ApproveDate: 03/11/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
FISHER	P368-1	140622	10/31/14	04/30/19	Wonge, Janee	2	1 L	NEAT	NEAT

Veritech Control/Receipt Number: 9149

Description
Diphenyl Ether

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Aldrich	240834-5g	MKBH5698V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9150

Description
Benzaldehyde

ApprovedBy: akmal
ApproveDate: 12/15/14
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Sigma-Aldrich	B1334-5g	MKBP5021V	12/12/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9154

Description
Caprolactum

ApprovedBy: jean
ApproveDate: 03/05/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Aldrich	C2204-5G	MKBC5149V	12/15/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9155

Description
1,2,4,5-Tetrachlorobenzene

ApprovedBy: jean
ApproveDate: 03/05/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Aldrich	131857-5G	06024IV	12/15/14	12/31/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 9325

Description
Naphthlene,d8

ApprovedBy: akmal
ApproveDate: 03/12/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CIL	DLM-365-1	PR-25998	03/11/15	06/30/24	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 9326

Description
Phenanthrene, d10

ApprovedBy: akmal
ApproveDate: 03/12/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CIL	DLM370-1	PR-23065/081711PN	03/11/15	09/07/21	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 9327

Description
Chrysene,d12

ApprovedBy: akmal
ApproveDate: 03/12/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CIL	DLI261-1	PR24875	03/11/15	05/09/23	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 9328

Description
Perylene, d12

ApprovedBy: akmal
ApproveDate: 03/12/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CIL	DLM-366-1	PR-24113	03/11/15	10/10/22	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 9329

Description
Acenaphthene, d10

ApprovedBy: akmal
ApproveDate: 03/12/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CIL	DLM-108-1	PR-25443	03/11/15	10/25/23	Hamid, Akmal	2	1G	NEAT	NEAT

Veritech Control/Receipt Number: 9402

Description
ACETOPHENONE

ApprovedBy: akmal
ApproveDate: 04/14/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEM SERVICE	N-11020-1G	3707800	04/14/15	01/31/23	Hamid, Akmal	1	IG	NEAT	NEAT

Veritech Control/Receipt Number: 9403

Description
CAPROLACTUM

ApprovedBy: akmal
ApproveDate: 04/14/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CHEM SERVICE	N11397-1G	3232400	04/14/15	10/31/20	Hamid, Akmal	1	1G	NEAT	NEAT

Veritech Control/Receipt Number: 9435

Description
1,4-Dimethylnaphthalene

ApprovedBy: akmal
ApproveDate: 04/24/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Aldrich	D170305-5G	STBD6188V	04/24/15	04/24/25	Hamid, Akmal	5	5G	95	%

Veritech Control/Receipt Number: 9618

Description
DFTPP

ApprovedBy: akmal
ApproveDate: 07/29/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44-2543	LC13253V	07/29/15	03/31/18	Hamid, Akmal	1	100m	Neat	Neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 9726

Description
Biphenyl

ApprovedBy: akmal
ApproveDate: 10/09/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-11207-1G	3936400	10/01/15	12/31/20	Hamid, Akmal	2	1ml	Neat	Neat

Veritech Control/Receipt Number: 9753

Description
Carbazole

ApprovedBy: akmal
ApproveDate: 10/16/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-11403-1G	4417700	10/16/15	10/31/20	Hamid, Akmal	1	1g	neat	neat

Veritech Control/Receipt Number: 9755

Description
Coumarin

ApprovedBy: akmal
ApproveDate: 10/16/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-11508-1G	4171300	10/16/15	07/31/23	Hamid, Akmal	1	1g	neat	neat

Veritech Control/Receipt Number: 9756

Description
Pentachloroethane

ApprovedBy: akmal
ApproveDate: 10/16/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-12829-1G	4377000	10/16/15	11/30/19	Hamid, Akmal	1	1g	neat	neat

Veritech Control/Receipt Number: 9757

Description
3,4-Dichlorophenol

ApprovedBy: akmal
ApproveDate: 10/16/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N10766-1G	3407700	10/16/15	12/31/21	Hamid, Akmal	1	1g	neat	neat

Veritech Control/Receipt Number: 9939

Description
4,4'-DDT

ApprovedBy: akmal
ApproveDate: 01/27/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-10876-100MG	4679800	01/27/16	01/31/23	Hamid, Akmal	2	100m	neat	neat

Veritech Control/Receipt Number: 10051

Description
1,4-Dioxane-D8

ApprovedBy: jean
ApproveDate: 03/11/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
CIL	DLM-28-5	I-19239A	03/10/16	03/10/30	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 10521

Description
Phenol-2,3,4,5,6-d5

ApprovedBy: akmal
ApproveDate: 11/02/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Aldrich	425370-5G	MBBC0235V	11/02/16	11/02/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 10572

Description
2,4,6-Tribromophenol

ApprovedBy: akmal
ApproveDate: 11/28/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Aldrich	137715-5G	29699MJV	11/07/16	11/07/25	Hamid, Akmal	1	5G	NEAT	NEAT

Veritech Control/Receipt Number: 10705

Description
TCL PAH MIX

ApprovedBy: akmal
ApproveDate: 01/17/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	CRM48905	XA21530V	01/17/17	06/30/19	Hamid, Akmal	2	1ML	2000	PPM

Veritech Control/Receipt Number: 10706

Description
TCL PHENOLS/BENZIDINE MIX

ApprovedBy: akmal
ApproveDate: 01/17/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	47992-U	XA14572V	01/17/17	06/30/18	Hamid, Akmal	2	1ML	2000	PPM

Veritech Control/Receipt Number: 10707

Description
TCL Hazardous Substances Mix

ApprovedBy: akmal
ApproveDate: 01/17/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	47990-U	XA14035V	01/17/17	05/31/18	Hamid, Akmal	2	1	2000	PPM

Veritech Control/Receipt Number: 10708

Description
TCL Base-Neutral Mix

ApprovedBy: akmal
ApproveDate: 01/17/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	47991-U	XA14793V	01/17/17	06/30/18	Hamid, Akmal	1	1ML	2000	PPM

Veritech Control/Receipt Number: 10750

Description
ACETONE

ApprovedBy: akmal
ApproveDate: 02/22/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.BAKER	9254-03	164214	02/14/17	01/13/20	Burwell, John	25	4 L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 10779

Description
Atrazine

ApprovedBy: akmal
ApproveDate: 03/03/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	49085	LC25183V	03/02/17	02/29/20	Hamid, Akmal	5	100m	Neat	Neat

Veritech Control/Receipt Number: 10780

Description
1,4-Dioxane

ApprovedBy: akmal
ApproveDate: 03/03/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Sigma-Aldrich	76887-5ML-F	BCBR4405V	03/02/17	12/31/18	Hamid, Akmal	1	5ML	NEAT	NEAT

Veritech Control/Receipt Number: 10781

Description
1-Methylnaphthalene

ApprovedBy: akmal
ApproveDate: 03/03/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Sigma-Aldrich	38383-100MG	BCBQ5833V	03/02/17	09/30/19	Hamid, Akmal	3	100M	95.2%	NEAT

Veritech Control/Receipt Number: 10789

Description
methylene chloride

ApprovedBy: akmal
ApproveDate: 03/09/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	D151-4	170232	03/07/17	02/28/22	Lopez, Jose	4	4L	neat	neat

Veritech Control/Receipt Number: 10978

Description
DDT-Endrin Mix

ApprovedBy: akmal
ApproveDate: 06/12/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	48282	XA12639V	06/12/17	03/31/18	Hamid, Akmal	2	1ML	500	PPM

Veritech Control/Receipt Number: 11044

Description
Pyridine

ApprovedBy: akmal
ApproveDate: 09/29/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	P368-1	170503	06/30/17	08/31/21	Wonge, Janee	2	1 L	neat	neat

Veritech Control/Receipt Number: 11085

Description
Benzoic Acid

ApprovedBy: akmal
ApproveDate: 07/20/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	CRM47508	XA20010V	07/18/17	04/30/19	Hamid, Akmal	2	1ML	2000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11125

Description
8270 MegaMix

ApprovedBy: akmal
ApproveDate: 08/23/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	31850	A0129012	08/23/17	01/31/19	Hamid, Akmal	4	1ML	1000	PPM

Veritech Control/Receipt Number: 11164

Description
Acetone

ApprovedBy: akmal
ApproveDate: 09/13/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	170015	09/12/17	01/30/20	Lopez, Jose	16	4L	neat	neat

Veritech Control/Receipt Number: 11184

Description
acetone

ApprovedBy: akmal
ApproveDate: 09/26/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T. BAKER	9254-03	176288	09/26/17	05/08/20	Burwell, John	20	4 L	neat	neat

Veritech Control/Receipt Number: 11200

Description
n-Octadecane

ApprovedBy: akmal
ApproveDate: 09/29/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service Inc	N-12582-1G	6095500	09/28/17	05/31/21	Hamid, Akmal	2	1ML	NEAT	NEAT

Veritech Control/Receipt Number: 11201

Description
N-Decane

ApprovedBy: akmal
ApproveDate: 09/29/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service Inc	N-12526-1G	6585700	09/28/17	05/31/22	Hamid, Akmal	2	1ML	NEAT	NEAT

Veritech Control/Receipt Number: 11298

Description
methylene chloride

ApprovedBy: akmal
ApproveDate: 11/30/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9264-03	176216	11/30/17	09/06/18	Lopez, Jose	120	4L	neat	neat

Veritech Control/Receipt Number: 11299

Description
Acetone

ApprovedBy: akmal
ApproveDate: 11/30/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	176288	11/30/17	05/08/20	Lopez, Jose	16	4L	neta	neta

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11330

Description
Acetone

ApprovedBy: akmal
ApproveDate: 12/18/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	176288	12/14/17	05/08/20	Lopez, Jose	48	4L	neat	neat

Veritech Control/Receipt Number: 11366

Description
4,4' -DDD

ApprovedBy: akmal
ApproveDate: 01/03/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Sigma-Aldrich	35486-250mg	BCBS3969V	01/02/18	06/30/21	Hamid, Akmal	2	250M	NEAT	NEAT

Veritech Control/Receipt Number: 11368

Description
TCL Benzidines Mix

ApprovedBy: akmal
ApproveDate: 01/03/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	48906	XA26144V	01/03/18	04/30/20	Hamid, Akmal	2	1ML	2000	PPM

Veritech Control/Receipt Number: 11370

Description
Methylene Chloride

ApprovedBy: akmal
ApproveDate: 01/05/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9264-03	176216	01/03/18	09/06/18	Lopez, Jose	80	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11322

Description
Toxic Substances Mix #2

ApprovedBy: jean
ApproveDate: 12/08/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	Z-014E	217021030	12/08/17	03/01/19	Revolus, Jean	15	1ml	2000	PPM

Veritech Control/Receipt Number: 11454

Description
Acid Comp Mix

ApprovedBy: akmal
ApproveDate: 02/05/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	CLP-HC-A-R-PAK	217081172	02/02/18	08/17/20	Revolus, Jean	5	1ml	2000	PPM

Veritech Control/Receipt Number: 11459

Description
Base/Neutral Comp Mix

ApprovedBy: akmal
ApproveDate: 02/05/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	CLP-HC-BN-PAK	217031389-01	02/02/18	12/16/18	Revolus, Jean	5	1ml	2000	PPM

Veritech Control/Receipt Number: 11484

Description
methylene chloride

ApprovedBy: akmal
ApproveDate: 02/12/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.BAKER	9264-03	176216	02/12/18	09/06/18	Burwell, John	120	4 L	neat	neat

Veritech Control/Receipt Number: 11486

Description
sodium sulfate

ApprovedBy: akmal
ApproveDate: 02/12/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
seidler	SC-3375-1C	725103	02/12/18	02/12/22	Burwell, John	4	100 L	neat	neat

GC PCB Data

8022605 0304

GC PCB Data
QC Summary

FORM2

Surrogate Recovery

Method: EPA 8082A

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column2 S2 Recov	Column1 S3 Recov	Column2 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
3G107628.D	WMB66107	A	02/28/18 19:20	1		99	96	96	99		
3G107645.D	AD02799-001	A	03/01/18 08:20	1		86	87	75	93		
3G107646.D	AD02799-002	A	03/01/18 08:35	1		104	92	87	100		
3G107629.D	WMB66107(MS)	A	02/28/18 19:35	1		81	82	83	87		
3G107630.D	AD02764-004(MS:AD02	A	02/28/18 19:50	1		67	69	77	78		
3G107631.D	AD02764-005(MSD:AD0	A	02/28/18 20:06	1		62	63	81	83		
3G107634.D	AD02764-003	A	02/28/18 20:52	1		39	41	80	81		

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8082A

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=TCMX-Surrogate	100	39-132
S2=TCMX-Surrogate	100	39-132
S3=DCB-Surrogate	100	39-142
S4=DCB-Surrogate	100	39-142

Form3
Recovery Data Laboratory Limits
QC Batch: WMB66107

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G107629.D	WMB66107(MS)	2/28/2018 7:35:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	913.43	0	1000	91	60	130
Aroclor-1260 -Total	1	977.24	0	1000	98	60	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
Recovery Data Laboratory Limits
QC Batch: WMB66107

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G107630.D	AD02764-004(MS:AD02764-00	2/28/2018 7:50:00 PM
Non Spike(If applicable):	3G107634.D	AD02764-003	2/28/2018 8:52:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	993.652	0	1000	99	60	130
Aroclor-1260 -Total	1	945.514	0	1000	95	60	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G107631.D	AD02764-005(MSD:AD02764-0	2/28/2018 8:06:00 PM
Non Spike(If applicable):	3G107634.D	AD02764-003	2/28/2018 8:52:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	975.44	0	1000	98	60	130
Aroclor-1260 -Total	1	941.032	0	1000	94	60	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: WMB66107

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G107631.D	AD02764-005(MSD:AD02764-0	2/28/2018 8:06:00 PM
Duplicate(If applicable):	3G107630.D	AD02764-004(MS:AD02764-00	2/28/2018 7:50:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Aroclor-1016 -Total	1	975.44	993.652	1.8	40
Aroclor-1260 -Total	1	941.032	945.514	0.48	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: WMB66107
Blank Data File: 3G107628.D
Matrix: Aqueous

Blank Analysis Date: 02/28/18 19:20
Blank Extraction Date: 02/28/18
(If Applicable)
Method: EPA 8082A

Sample Number	Data File	Analysis Date
AD02799-001	3G107645.D	03/01/18 08:20
AD02799-002	3G107646.D	03/01/18 08:35
AD02764-003	3G107634.D	02/28/18 20:52
AD02764-005(MSD	3G107631.D	02/28/18 20:06
AD02764-004(MS:	3G107630.D	02/28/18 19:50
WMB66107(MS)	3G107629.D	02/28/18 19:35

Form 5

Method: EPA 8082A

Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G106704.D	CAL 3268@500PPB	02/05/18 11:09	Soil	3G10670	9.9435	0.0282	10.6369	0.0263
3G106705.D	CAL 1242@500PPB	02/05/18 11:23	Soil	3G10670	9.9436	0.0271	10.6388	0.0085
3G106706.D	CAL 1248@500PPB	02/05/18 11:38	Soil	3G10670	9.9445	0.0181	10.6392	0.0047
3G106707.D	CAL 2154@500PPB	02/05/18 11:53	Soil	3G10670	9.9445	0.0181	10.6385	0.0113
3G106708.D	CAL 1262@500PPB	02/05/18 12:08	Soil	3G10670	9.9453	0.01	10.6396	0.0009
3G106709.D	CAL 1660@50PPB	02/05/18 12:23	Soil	3G10670	9.9463	0	10.6397	0
3G106710.D	CAL 1660@200PPB	02/05/18 12:38	Soil	3G10670	9.9457	0.006	10.6400	0.0028
3G106711.D	CAL 1660@500PPB	02/05/18 12:52	Soil	3G10670	9.9447	0.0161	10.6391	0.0056
3G106712.D	CAL 1660@1000PPB	02/05/18 13:07	Soil	3G10670	9.9452	0.0111	10.6394	0.0028
3G106713.D	CAL 1660@2000PPB	02/05/18 13:22	Soil	3G10670	9.9440	0.0231	10.6385	0.0113
3G106714.D	CAL 1660@4000PPB	02/05/18 13:37	Soil	3G10670	9.9436	0.0271	10.6374	0.0216
3G106715.D	ICV	02/05/18 13:52	Soil	3G10670	9.9452	0.0111	10.6390	0.0066
3G106716.D	PEST WS	02/05/18 14:07	Soil	3G10670	0.0000	200 *	0.0000	200 *
3G106717.D	SMB64182	02/05/18 17:25	Soil	3G10670	9.9516	0.0533	10.6405	0.0075
3G106718.D	SMB64182(MS)	02/05/18 17:40	Soil	3G10670	9.9450	0.0131	10.6372	0.0235
3G106719.D	CAL 1660@1000PPB	02/05/18 17:55	Soil	3G10670	9.9445	0.0181	10.6379	0.0169
3G106720.D	AD02371-066(MS)	02/05/18 23:21	Soil	3G10671	9.9504	0.0593	10.6372	0.0066
3G106721.D	AD02371-066(MSD)	02/05/18 23:36	Soil	3G10671	9.9433	0.0121	10.6351	0.0263
3G106722.D	AD02371-066	02/05/18 23:51	Soil	3G10671	9.9424	0.0211	10.6354	0.0235
3G106723.D	AD02371-037	02/06/18 00:05	Soil	3G10671	9.9431	0.0141	10.6364	0.0141
3G106724.D	AD02371-039	02/06/18 00:20	Soil	3G10671	9.9422	0.0231	10.6361	0.0169
3G106725.D	AD02371-041	02/06/18 00:35	Soil	3G10671	9.9426	0.0191	10.6359	0.0188
3G106726.D	AD02371-042	02/06/18 00:50	Soil	3G10671	9.9419	0.0261	10.6357	0.0207
3G106727.D	AD02371-043	02/06/18 01:05	Soil	3G10671	9.9422	0.0231	10.6364	0.0141
3G106728.D	AD02371-044	02/06/18 01:19	Soil	3G10671	9.9446	0.001	10.6359	0.0188
3G106729.D	AD02371-045	02/06/18 01:34	Soil	3G10671	9.9427	0.0181	10.6378	0.0009
3G106730.D	CAL 1660@500PPB	02/06/18 01:49	Soil	3G10671	9.9447	0.002	10.6389	0.0094
3G106731.D	1000PPB	02/06/18 02:04	Soil	3G10673	9.9438	0.0091	10.6388	0.0009
3G106732.D	AD02371-046	02/06/18 02:19	Soil	3G10673	9.9436	0.0111	10.6367	0.0207
3G106733.D	AD02371-047	02/06/18 02:34	Soil	3G10673	9.9449	0.002	10.6374	0.0141
3G106734.D	AD02371-048	02/06/18 02:49	Soil	3G10673	9.9444	0.003	10.6381	0.0075
3G106735.D	AD02371-049	02/06/18 03:04	Soil	3G10673	9.9420	0.0272	10.6373	0.015
3G106736.D	AD02371-050	02/06/18 03:18	Soil	3G10673	9.9437	0.0101	10.6373	0.015
3G106737.D	AD02371-051	02/06/18 03:33	Soil	3G10673	9.9443	0.004	10.6377	0.0113
3G106738.D	AD02371-052	02/06/18 03:48	Soil	3G10673	9.9440	0.007	10.6380	0.0085
3G106739.D	AD02371-054	02/06/18 04:03	Soil	3G10673	9.9451	0.004	10.6377	0.0113
3G106740.D	AD02371-055	02/06/18 04:18	Soil	3G10673	9.9450	0.003	10.6375	0.0132
3G106741.D	1000PPB	02/06/18 04:33	Soil	3G10673	9.9473	0.0261	10.6416	0.0254
3G106742.D	CAL 1660@500PPB	02/06/18 04:48	Soil	3G10673	9.9485	0.0382	10.6414	0.0235

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8082A
Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G107593.D	CAL 1660@1000PPB	02/28/18 08:02	Soil	3G10759	9.9399	0	10.6367	0
3G107594.D	SMB66096	02/28/18 08:44	Soil	3G10759	9.9476	0.0774	10.6404	0.0348
3G107595.D	SMB66096(MS)	02/28/18 08:59	Soil	3G10759	9.9401	0.002	10.6370	0.0028
3G107596.D	AD02741-001(MS)	02/28/18 09:13	Soil	3G10759	9.9392	0.007	10.6378	0.0103
3G107597.D	AD02741-001(MSD)	02/28/18 09:28	Soil	3G10759	9.9381	0.0181	10.6370	0.0028
3G107598.D	AD02741-001	02/28/18 09:43	Soil	3G10759	9.9385	0.0141	10.6377	0.0094
3G107599.D	AD02741-003	02/28/18 09:58	Soil	3G10759	9.9383	0.0161	10.6366	0.0009
3G107600.D	AD02741-005	02/28/18 10:13	Soil	3G10759	9.9388	0.0111	10.6374	0.0066
3G107601.D	AD02772-005	02/28/18 10:28	Soil	3G10759	9.9405	0.006	10.6368	0.0009
3G107602.D	AD02746-012	02/28/18 10:43	Soil	3G10759	9.9387	0.0121	10.6371	0.0038
3G107603.D	AD02746-010	02/28/18 10:58	Soil	3G10759	9.9381	0.0181	10.6355	0.0113
3G107604.D	AD02746-008	02/28/18 11:13	Soil	3G10759	9.9400	0.001	10.6382	0.0141
3G107605.D	AD02746-006	02/28/18 11:28	Soil	3G10759	9.9377	0.0221	10.6369	0.0019
3G107606.D	CAL 1660@1000PPB	02/28/18 11:43	Soil	3G10759	9.9401	0.002	10.6389	0.0207
3G107607.D	SMB66098	02/28/18 13:28	Soil	3G10760	9.9497	0.0965	10.6411	0.0207
3G107608.D	SMB66098(MS)	02/28/18 13:43	Soil	3G10760	9.9417	0.0161	10.6374	0.0141
3G107609.D	SMB66099	02/28/18 13:58	Soil	3G10760	9.9408	0.007	10.6390	0.0009
3G107610.D	SMB66099(MS)	02/28/18 14:13	Soil	3G10760	9.9407	0.006	10.6385	0.0038
3G107611.D	AD02703-015(MS)	02/28/18 15:00	Soil	3G10760	9.9494	0.0935	10.6411	0.0207
3G107612.D	AD02703-015(MSD)	02/28/18 15:15	Soil	3G10760	9.9423	0.0221	10.6397	0.0075
3G107613.D	AD02703-015	02/28/18 15:30	Soil	3G10760	9.9413	0.0121	10.6401	0.0113
3G107614.D	AD02703-001	02/28/18 15:45	Soil	3G10760	9.9425	0.0241	10.6396	0.0066
3G107615.D	AD02703-002	02/28/18 16:00	Soil	3G10760	9.9408	0.007	10.6385	0.0038
3G107616.D	AD02703-003	02/28/18 16:15	Soil	3G10760	9.9403	0.002	10.6392	0.0028
3G107617.D	AD02703-004	02/28/18 16:31	Soil	3G10760	9.9409	0.008	10.6392	0.0028
3G107618.D	AD02703-005	02/28/18 16:46	Soil	3G10760	9.9400	0.001	10.6395	0.0056
3G107619.D	AD02703-006	02/28/18 17:00	Soil	3G10760	9.9420	0.0191	10.6398	0.0085
3G107620.D	AD02703-007	02/28/18 17:16	Soil	3G10760	9.9418	0.0171	10.6405	0.015
3G107621.D	AD02703-008	02/28/18 17:31	Soil	3G10760	9.9410	0.0091	10.6401	0.0113
3G107622.D	AD02703-009	02/28/18 17:46	Soil	3G10760	9.9414	0.0131	10.6393	0.0038
3G107623.D	AD02703-010	02/28/18 18:01	Soil	3G10760	9.9416	0.0151	10.6390	0.0009
3G107624.D	AD02703-011	02/28/18 18:16	Soil	3G10760	9.9410	0.0091	10.6399	0.0094
3G107625.D	AD02703-012	02/28/18 18:32	Soil	3G10760	9.9425	0.0241	10.6391	0.0019
3G107626.D	AD02703-013	02/28/18 18:46	Soil	3G10760	9.9423	0.0221	10.6407	0.0169
3G107627.D	CAL 1660@1000PPB	02/28/18 19:02	Soil	3G10760	9.9426	0.0252	10.6407	0.0169
3G107628.D	WMB66107	02/28/18 19:20	Aqueous	3G10762	9.9444	0.0181	10.6416	0.0085
3G107629.D	WMB66107(MS)	02/28/18 19:35	Aqueous	3G10762	9.9424	0.002	10.6403	0.0038
3G107630.D	AD02764-004(MS:AD02	02/28/18 19:50	Aqueous	3G10762	9.9416	0.0101	10.6389	0.0169
3G107631.D	AD02764-005(MSD:AD0	02/28/18 20:06	Aqueous	3G10762	9.9403	0.0231	10.6385	0.0207
3G107632.D	AD02764-001	02/28/18 20:21	Aqueous	3G10762	9.9418	0.008	10.6399	0.0075
3G107633.D	AD02764-002	02/28/18 20:37	Aqueous	3G10762	9.9395	0.0312	10.6392	0.0141
3G107634.D	AD02764-003	02/28/18 20:52	Aqueous	3G10762	9.9400	0.0262	10.6392	0.0141
3G107635.D	AD02764-006	02/28/18 21:07	Aqueous	3G10762	9.9407	0.0191	10.6384	0.0216
3G107636.D	AD02764-007	02/28/18 21:22	Aqueous	3G10762	9.9412	0.0141	10.6396	0.0103
3G107637.D	AD02762-001	02/28/18 21:38	Aqueous	3G10762	9.9407	0.0191	10.6382	0.0235
3G107638.D	AD02771-002	02/28/18 21:53	Aqueous	3G10762	9.9401	0.0252	10.6386	0.0197
3G107639.D	AD02799-001	02/28/18 22:08	Aqueous	3G10762	9.9394	0.0322	10.6372	0.0329
3G107640.D	AD02799-002	02/28/18 22:23	Aqueous	3G10762	9.9402	0.0241	10.6382	0.0235
3G107641.D	CAL 1660@2000PPB	02/28/18 22:39	Aqueous	3G10762	9.9424	0.002	10.6395	0.0113
3G107642.D	2000PPB	02/28/18 23:30	Aqueous	3G10764	9.9395	0.0292	10.6352	0.0404

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8082A

Instrument: GC_3 Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
3G107643.D	CAL 1660@500PPB	03/01/18 07:36	Aqueous	3G10764	9.9331	0	10.6328	0
3G107644.D	AD02820-001	03/01/18 08:05	Aqueous	3G10764	9.9408	0.0775	10.6341	0.0122
3G107645.D	AD02799-001	03/01/18 08:20	Aqueous	3G10764	9.9354	0.0232	10.6343	0.0141
3G107646.D	AD02799-002	03/01/18 08:35	Aqueous	3G10764	9.9346	0.0151	10.6333	0.0047
3G107647.D	02702-02(T)(R)	03/01/18 10:13	Aqueous	3G10764	9.9436	0.1057	10.6355	0.0254
3G107648.D	02702-02(T)(RT)	03/01/18 10:28	Aqueous	3G10764	9.9363	0.0322	10.6339	0.0103
3G107649.D	02760-001(T)	03/01/18 11:10	Aqueous	3G10764	9.9443	0.1127	10.6359	0.0291
3G107650.D	SMB66113	03/01/18 13:30	Soil	3G10764	9.9434	0.1036	10.6364	0.0339
3G107651.D	SMB66113(MS)	03/01/18 13:45	Soil	3G10764	9.9365	0.0342	10.6341	0.0122
3G107652.D	SMB66111	03/01/18 14:00	Soil	3G10764	9.9357	0.0262	10.6345	0.016
3G107653.D	SMB66111(MS)	03/01/18 14:14	Soil	3G10764	9.9350	0.0191	10.6330	0.0019
3G107654.D	AD02774-014	03/01/18 14:29	Soil	3G10764	9.9350	0.0191	10.6333	0.0047
3G107655.D	AD02756-001(MS)	03/01/18 14:46	Soil	3G10764	9.9383	0.0523	10.6350	0.0207
3G107656.D	AD02756-001(MSD)	03/01/18 15:01	Soil	3G10764	9.9374	0.0433	10.6344	0.015
3G107657.D	AD02756-001	03/01/18 15:16	Soil	3G10764	9.9357	0.0262	10.6350	0.0207
3G107658.D	AD02756-002	03/01/18 15:31	Soil	3G10764	9.9356	0.0252	10.6347	0.0179
3G107659.D	AD02756-003	03/01/18 15:46	Soil	3G10764	9.9364	0.0332	10.6346	0.0169
3G107660.D	AD02756-004	03/01/18 16:01	Soil	3G10764	9.9358	0.0272	10.6342	0.0132
3G107661.D	AD02756-005	03/01/18 16:16	Soil	3G10764	9.9358	0.0272	10.6334	0.0056
3G107662.D	AD02756-006	03/01/18 16:32	Soil	3G10764	9.9350	0.0191	10.6331	0.0028
3G107663.D	AD02756-007	03/01/18 16:46	Soil	3G10764	9.9351	0.0201	10.6346	0.0169
3G107664.D	AD02756-008	03/01/18 17:01	Soil	3G10764	9.9361	0.0302	10.6341	0.0122
3G107665.D	CAL 1660@500PPB	03/01/18 17:17	Soil	3G10764	9.9374	0.0433	10.6357	0.0273
3G107666.D	AD02798-002	03/01/18 17:58	Soil	3G10766	9.9439	0.0654	10.6363	0.0056
3G107667.D	AD02798-004	03/01/18 18:13	Soil	3G10766	9.9378	0.004	10.6348	0.0085
3G107668.D	AD02798-006	03/01/18 18:28	Soil	3G10766	9.9371	0.003	10.6356	0.0009
3G107669.D	AD02798-008	03/01/18 18:43	Soil	3G10766	9.9372	0.002	10.6349	0.0075
3G107670.D	AD02798-010	03/01/18 18:58	Soil	3G10766	9.9361	0.0131	10.6337	0.0188
3G107671.D	AD02798-012	03/01/18 19:14	Soil	3G10766	9.9380	0.006	10.6350	0.0066
3G107672.D	AD02798-014	03/01/18 19:29	Soil	3G10766	9.9368	0.006	10.6348	0.0085
3G107673.D	AD02798-016	03/01/18 19:44	Soil	3G10766	9.9370	0.004	10.6340	0.016
3G107674.D	CAL 1660@500PPB	03/01/18 19:59	Soil	3G10766	9.9382	0.0081	10.6363	0.0056
3G107675.D	1000PPB	03/01/18 20:15	Soil	3G10767	9.9377	0.005	10.6364	0.0009

Drift Compound: DCB-Surrogate Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

GC PCB Data
Sample Data

Form1

ORGANICS PCB REPORT

Sample Number: AD02799-001
Client Id: RMW-3_02232018
Data File: 3G107645.D
Analysis Date: 03/01/18 08:20
Date Rec/Extracted: 02/26/18-02/28/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 455644

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2018\GC_3\Data\03-01-18\
Data File : 3G107645.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 1 Mar 2018 8:20
Operator : ZM/MLC/KD
Sample : AD02799-001
Misc : A,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 01 08:34:05 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

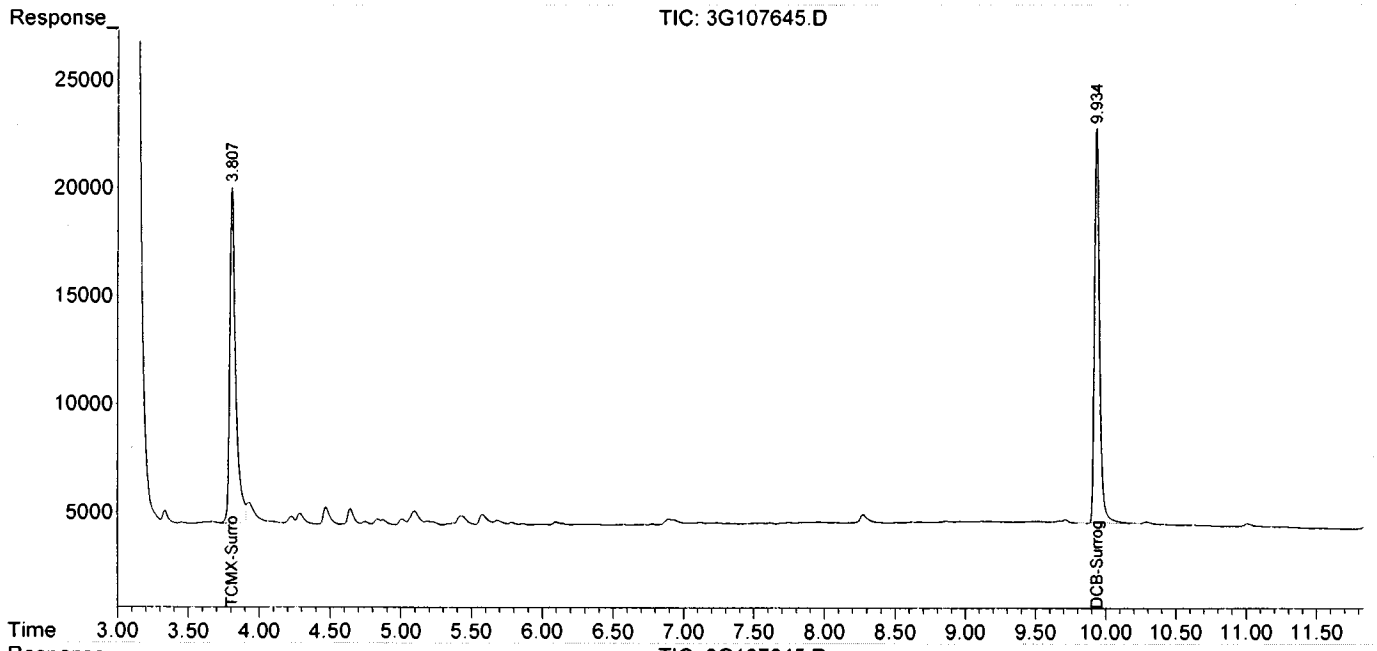
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2	
Target Compounds							
1)TCMX-Surrogate	3.807	3.850	449840	844310	86.082	86.742	
45)DCB-Surrogate	9.935	10.634	455222	1024426	74.575	93.458	#

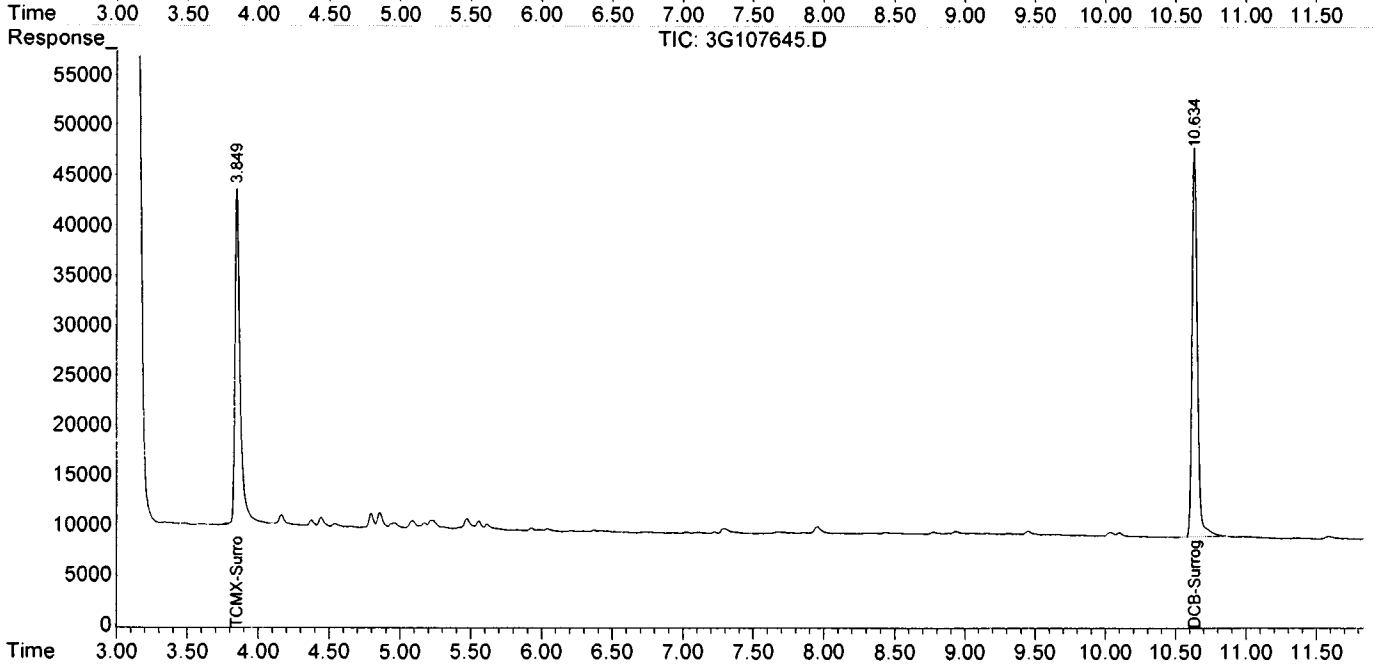
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\03-01-18\
Data File : 3G107645.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 1 Mar 2018 8:20
Operator : ZM/MLC/KD
Sample : AD02799-001
Misc : A,PCB
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 01 08:34:05 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form1

ORGANICS PCB REPORT

Sample Number: AD02799-002
Client Id: WC_02232018
Data File: 3G107646.D
Analysis Date: 03/01/18 08:35
Date Rec/Extracted: 02/26/18-02/28/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U	1336-36-3	Aroclor (Total)	0.25	U

Worksheet #: 455644

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2018\GC_3\Data\03-01-18\
Data File : 3G107646.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 1 Mar 2018 8:35
Operator : ZM/MLC/KD
Sample : AD02799-002
Misc : A,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 01 09:50:23 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

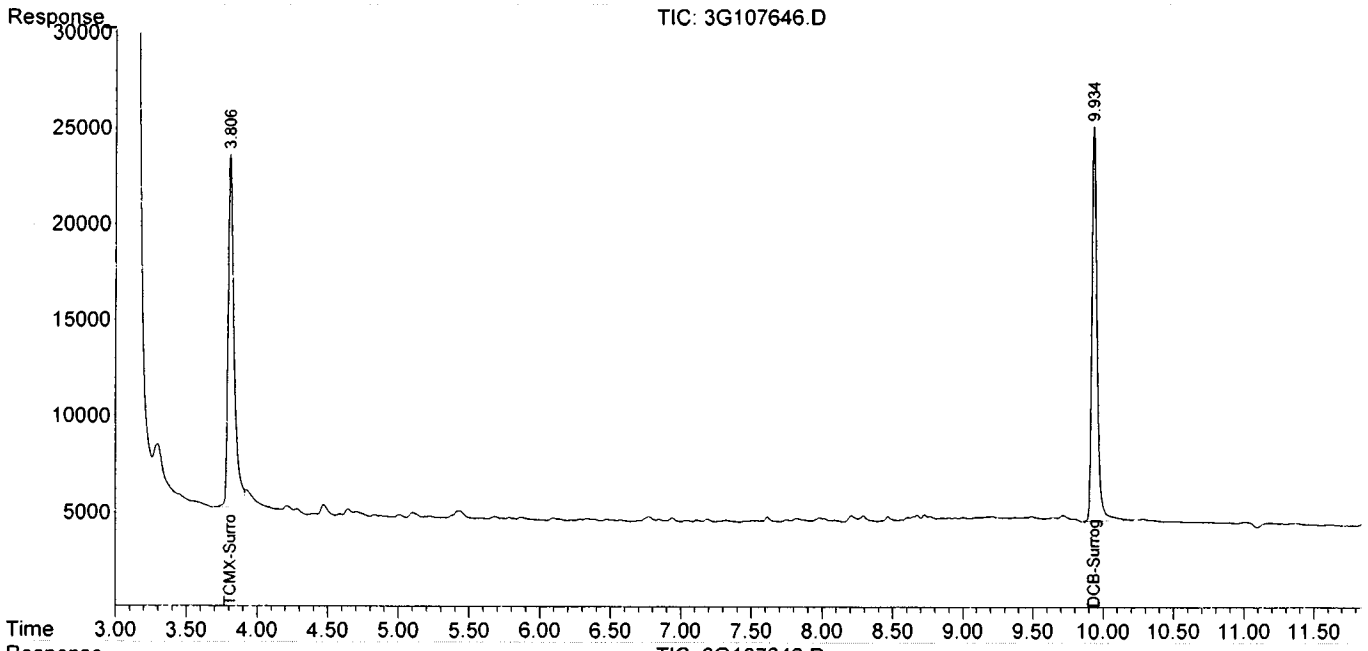
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.806	3.849	545479	898852	104.384m	92.346
45)DCB-Surrogate	9.935	10.633	528351	1096034	86.555	100.171

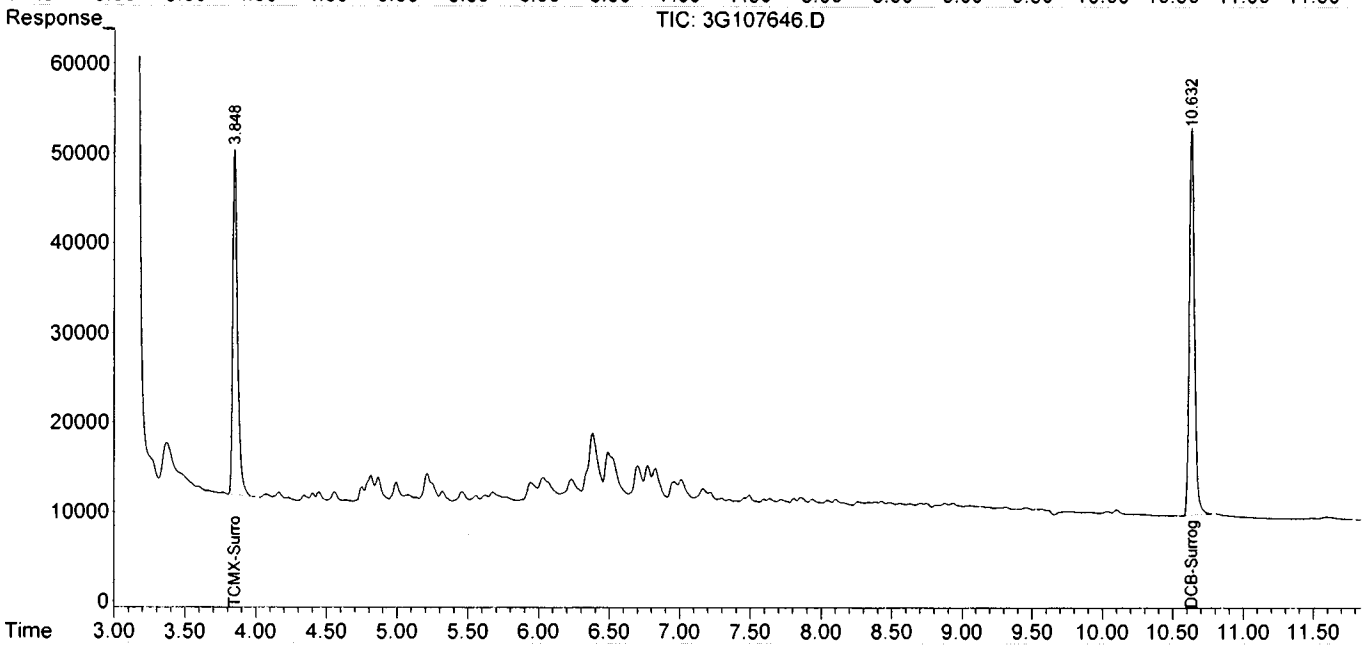
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\03-01-18\
Data File : 3G107646.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 1 Mar 2018 8:35
Operator : ZM/MLC/KD
Sample : AD02799-002
Misc : A,PCB
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 01 09:50:23 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





GC PCB Data
Standards Data

802605 0321

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G106709.D	CAL 1660@50PPB	02/05/18 12:23	2	3G106710.D	CAL 1660@200PPB	02/05/18 12:38
3	3G106711.D	CAL 1660@500PPB	02/05/18 12:52	4	3G106712.D	CAL 1660@1000PPB	02/05/18 13:07
5	3G106713.D	CAL 1660@2000PPB	02/05/18 13:22	6	3G106714.D	CAL 1660@4000PPB	02/05/18 13:37
7	3G106704.D	CAL 3268@500PPB	02/05/18 11:09	8	3G106705.D	CAL 1242@500PPB	02/05/18 11:23
9	3G106706.D	CAL 1248@500PPB	02/05/18 11:38	10	3G106707.D	CAL 2154@500PPB	02/05/18 11:53

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
TCMX-Surrogate	1	0	Avg	0.4721	0.5181	0.5273	0.5296	0.5442	0.5438	----	----	0.523	3.81	1.00	1.00	5.1	5.00	20.00	50.00	100.0	200.0	400.0		
Aroclor-1016	1	1	Avg	0.0181	0.0173	0.0172	0.0161	0.0151	0.0139	----	----	0.0163	4.30	0.998	1.00	9.6	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	2	Qua	0.0344	0.0336	0.0311	0.0285	0.0264	0.0241	----	----	0.0297	4.65	0.997	1.00	14	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	3	Qua	0.0691	0.0652	0.0600	0.0565	0.0533	0.0492	----	----	0.0590	5.11	0.998	1.00	13	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	4	Avg	0.0175	0.0194	0.0182	0.0179	0.0172	0.0163	----	----	0.0178	5.34	0.999	1.00	5.8	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	1	5	Avg	0.0429	0.0459	0.0424	0.0420	0.0389	0.0354	----	----	0.0413	5.46	0.997	1.00	8.7	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	1	Qua	0.0420	0.0410	0.0383	0.0346	0.0323	0.0298	----	----	0.0364	6.95	0.998	1.00	13	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	2	Qua	0.0489	0.0473	0.0445	0.0405	0.0379	0.0351	----	----	0.0424	7.20	0.998	1.00	13	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	3	Avg	0.0218	0.0236	0.0231	0.0215	0.0209	0.0206	----	----	0.0220	7.39	1.00	1.00	5.5	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	4	Avg	0.0329	0.0321	0.0309	0.0285	0.0274	0.0260	----	----	0.0297	7.97	0.999	1.00	9.3	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	1	5	Avg	0.0503	0.0498	0.0499	0.0471	0.0464	0.0459	----	----	0.0483	8.68	1.00	1.00	4.1	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1221	1	1	Avg	----	----	----	----	----	----	----	----	0.00799	4.10	-1	-1	Lvl=10	500.0							
Aroclor-1221	1	2	Avg	----	----	----	----	----	----	----	----	0.00463	4.23	-1	-1	Lvl=10	500.0							
Aroclor-1221	1	3	Avg	----	----	----	----	----	----	----	----	0.0236	4.29	-1	-1	Lvl=10	500.0							
Aroclor-1232	1	1	Avg	----	----	----	----	----	----	----	----	0.0166	4.29	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	2	Avg	----	----	----	----	----	----	----	----	0.0142	4.65	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	3	Avg	----	----	----	----	----	----	----	----	0.0257	5.11	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	4	Avg	----	----	----	----	----	----	----	----	0.0116	5.24	-1	-1	Lvl=7	500.0							
Aroclor-1232	1	5	Avg	----	----	----	----	----	----	----	----	0.0122	5.69	-1	-1	Lvl=7	500.0							
Aroclor-1242	1	1	Avg	----	----	----	----	----	----	----	----	0.0145	4.29	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	2	Avg	----	----	----	----	----	----	----	----	0.0240	4.65	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	3	Avg	----	----	----	----	----	----	----	----	0.0478	5.11	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	4	Avg	----	----	----	----	----	----	----	----	0.0332	5.46	-1	-1	Lvl=8	500.0							
Aroclor-1242	1	5	Avg	----	----	----	----	----	----	----	----	0.0202	5.69	-1	-1	Lvl=8	500.0							
Aroclor-1248	1	1	Avg	----	----	----	----	----	----	----	----	0.0129	4.65	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	2	Avg	----	----	----	----	----	----	----	----	0.0293	5.11	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	3	Avg	----	----	----	----	----	----	----	----	0.0570	5.45	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	4	Avg	----	----	----	----	----	----	----	----	0.0260	5.80	-1	-1	Lvl=9	500.0							
Aroclor-1248	1	5	Avg	----	----	----	----	----	----	----	----	0.0354	6.38	-1	-1	Lvl=9	500.0							
Aroclor-1254	1	1	Avg	----	----	----	----	----	----	----	----	0.0143	6.58	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	2	Avg	----	----	----	----	----	----	----	----	0.0564	6.79	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	3	Avg	----	----	----	----	----	----	----	----	0.0291	6.95	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	4	Avg	----	----	----	----	----	----	----	----	0.0412	7.07	-1	-1	Lvl=10	500.0							
Aroclor-1254	1	5	Avg	----	----	----	----	----	----	----	----	0.0176	7.45	-1	-1	Lvl=10	500.0							
Aroclor-1262	1	1	Avg	----	----	----	----	----	----	----	----	0.0468	7.62	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	2	Avg	----	----	----	----	----	----	----	----	0.0280	8.62	-1	-1	Lvl=11	500.0							

Avg Rsd Col 1: 9.01 Avg Rsd Col 2: 13.15

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

8022605 0322

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_3

Level #	Data File	Cal Identifier	Analysis Date/Time	Level #	Data File	Cal Identifier	Analysis Date/Time
1	3G106709.D	CAL 1660@50PPB	02/05/18 12:23	2	3G106710.D	CAL 1660@200PPB	02/05/18 12:38
3	3G106711.D	CAL 1660@500PPB	02/05/18 12:52	4	3G106712.D	CAL 1660@1000PPB	02/05/18 13:07
5	3G106713.D	CAL 1660@2000PPB	02/05/18 13:22	6	3G106714.D	CAL 1660@4000PPB	02/05/18 13:37
7	3G106704.D	CAL 3268@500PPB	02/05/18 11:09	8	3G106705.D	CAL 1242@500PPB	02/05/18 11:23
9	3G106706.D	CAL 1248@500PPB	02/05/18 11:38	10	3G106707.D	CAL 2154@500PPB	02/05/18 11:53

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aroclor-1262	1	3	Avg	----	----	----	----	----	----	----	----	0.0553	8.68	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	4	Avg	----	----	----	----	----	----	----	----	0.0258	9.37	-1	-1	Lvl=11	500.0							
Aroclor-1262	1	5	Avg	----	----	----	----	----	----	----	----	0.00940	9.72	-1	-1	Lvl=11	500.0							
Aroclor-1268	1	1	Avg	----	----	----	----	----	----	----	----	0.00903	7.97	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	2	Avg	----	----	----	----	----	----	----	----	0.00889	8.28	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	3	Avg	----	----	----	----	----	----	----	----	0.0700	8.86	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	4	Avg	----	----	----	----	----	----	----	----	0.0194	8.96	-1	-1	Lvl=7	500.0							
Aroclor-1268	1	5	Avg	----	----	----	----	----	----	----	----	0.223	9.72	-1	-1	Lvl=7	500.0							
DCB-Surrogate	1	0	Avg	0.6721	0.6458	0.6243	0.5884	0.5742	0.5575	----	----	0.610	9.94	1.00	1.00	7.3	5.00	20.00	50.00	100.0	200.0	400.0		
TCMX-Surrogate	2	0	Avg	0.9629	1.0006	1.0023	0.9712	0.9691	0.9338	----	----	0.973	3.85	1.00	1.00	2.6	5.00	20.00	50.00	100.0	200.0	400.0		
Aroclor-1016	2	1	Qua	0.0272	0.0275	0.0256	0.0237	0.0222	0.0200	----	----	0.0244	4.44	0.997	1.00	12	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	2	Qua	0.0539	0.0566	0.0532	0.0469	0.0420	0.0372	----	----	0.0484	4.86	0.994	0.999	16	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	3	Qua	0.1318	0.1168	0.1107	0.0981	0.0898	0.0813	----	----	0.105	5.24	0.996	1.00	18	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	4	Qua	0.0489	0.0506	0.0479	0.0424	0.0387	0.0351	----	----	0.0440	5.56	0.996	1.00	14	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1016	2	5	Qua	0.0330	0.0345	0.0334	0.0297	0.0274	0.0252	----	----	0.0306	5.93	0.997	1.00	12	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	1	Qua	0.0835	0.0764	0.0685	0.0624	0.0566	0.0510	----	----	0.0664	7.23	0.996	1.00	18	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	2	Qua	0.0899	0.0841	0.0758	0.0714	0.0649	0.0589	----	----	0.0742	7.31	0.997	1.00	16	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	3	Qua	0.0438	0.0449	0.0383	0.0339	0.0313	0.0289	----	----	0.0369	7.94	0.998	1.00	18	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	4	Qua	0.0719	0.0731	0.0675	0.0623	0.0593	0.0564	----	----	0.0651	8.29	0.999	1.00	11	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1260	2	5	Qua	0.0729	0.0672	0.0633	0.0589	0.0568	0.0560	----	----	0.0626	8.99	1.00	1.00	11	50.00	200.0	500.0	1000.	2000.	4000.		
Aroclor-1221	2	1	Avg	----	----	----	----	----	----	----	----	0.0144	4.23	-1	-1	Lvl=10	500.0							
Aroclor-1221	2	2	Avg	----	----	----	----	----	----	----	----	0.00915	4.38	-1	-1	Lvl=10	500.0							
Aroclor-1221	2	3	Avg	----	----	----	----	----	----	----	----	0.0309	4.44	-1	-1	Lvl=10	500.0							
Aroclor-1232	2	1	Avg	----	----	----	----	----	----	----	----	0.0232	4.44	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	2	Avg	----	----	----	----	----	----	----	----	0.0240	4.86	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	3	Avg	----	----	----	----	----	----	----	----	0.0471	5.24	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	4	Avg	----	----	----	----	----	----	----	----	0.0179	5.93	-1	-1	Lvl=7	500.0							
Aroclor-1232	2	5	Avg	----	----	----	----	----	----	----	----	0.0143	6.07	-1	-1	Lvl=7	500.0							
Aroclor-1242	2	1	Avg	----	----	----	----	----	----	----	----	0.0219	4.44	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	2	Avg	----	----	----	----	----	----	----	----	0.0370	4.86	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	3	Avg	----	----	----	----	----	----	----	----	0.0830	5.24	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	4	Avg	----	----	----	----	----	----	----	----	0.0357	5.56	-1	-1	Lvl=8	500.0							
Aroclor-1242	2	5	Avg	----	----	----	----	----	----	----	----	0.0288	5.93	-1	-1	Lvl=8	500.0							
Aroclor-1248	2	1	Avg	----	----	----	----	----	----	----	----	0.0199	4.86	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	2	Avg	----	----	----	----	----	----	----	----	0.0596	5.24	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	3	Avg	----	----	----	----	----	----	----	----	0.0450	5.56	-1	-1	Lvl=9	500.0							

Avg Rsd Col 1: 9.01 Avg Rsd Col 2: 13.15

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

8022605 0323

Form 6
Initial Calibration

Method: EPA 8082A

Instrument: GC_3

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	3G106709.D	CAL 1660@50PPB	02/05/18 12:23	2	3G106710.D	CAL 1660@200PPB	02/05/18 12:38
3	3G106711.D	CAL 1660@500PPB	02/05/18 12:52	4	3G106712.D	CAL 1660@1000PPB	02/05/18 13:07
5	3G106713.D	CAL 1660@2000PPB	02/05/18 13:22	6	3G106714.D	CAL 1660@4000PPB	02/05/18 13:37
7	3G106704.D	CAL 3268@500PPB	02/05/18 11:09	8	3G106705.D	CAL 1242@500PPB	02/05/18 11:23
9	3G106706.D	CAL 1248@500PPB	02/05/18 11:38	10	3G106707.D	CAL 2154@500PPB	02/05/18 11:53

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
Aroclor-1248	2	4	Avg	----	----	----	----	----	----	----	----	0.0413	6.07	-1	-1	Lvl=9	500.0							
Aroclor-1248	2	5	Avg	----	----	----	----	----	----	----	----	0.0546	6.21	-1	-1	Lvl=9	500.0							
Aroclor-1254	2	1	Avg	----	----	----	----	----	----	----	----	0.0681	6.42	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	2	Avg	----	----	----	----	----	----	----	----	0.0224	6.76	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	3	Avg	----	----	----	----	----	----	----	----	0.0612	7.16	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	4	Avg	----	----	----	----	----	----	----	----	0.0259	7.67	-1	-1	Lvl=10	500.0							
Aroclor-1254	2	5	Avg	----	----	----	----	----	----	----	----	0.0297	8.35	-1	-1	Lvl=10	500.0							
Aroclor-1262	2	1	Avg	----	----	----	----	----	----	----	----	0.0636	7.73	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	2	Avg	----	----	----	----	----	----	----	----	0.0572	8.88	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	3	Avg	----	----	----	----	----	----	----	----	0.0625	8.99	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	4	Avg	----	----	----	----	----	----	----	----	0.0682	9.57	-1	-1	Lvl=11	500.0							
Aroclor-1262	2	5	Avg	----	----	----	----	----	----	----	----	0.0189	10.11	-1	-1	Lvl=11	500.0							
Aroclor-1268	2	1	Avg	----	----	----	----	----	----	----	----	0.0124	8.39	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	2	Avg	----	----	----	----	----	----	----	----	0.0199	8.43	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	3	Avg	----	----	----	----	----	----	----	----	0.136	9.31	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	4	Avg	----	----	----	----	----	----	----	----	0.0352	9.47	-1	-1	Lvl=7	500.0							
Aroclor-1268	2	5	Avg	----	----	----	----	----	----	----	----	0.433	10.10	-1	-1	Lvl=7	500.0							
DCB-Surrogate	2	0	Qua	1.3145	1.2456	1.1774	1.0971	1.0535	1.0072	----	----	1.15	10.64	0.999	1.00	10	5.00	20.00	50.00	100.0	200.0	400.0		

Avg Rsd Col 1: 9.01 Avg Rsd Col 2: 13.15

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc..)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106709.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 12:23
Operator : ZM/MLC/KD
Sample : CAL 1660@50PPB
Misc : S,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:05:01 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.812	3.852	23609	48150	4.543	5.102m
2)Aroclor-1016 {1}	4.296	4.444	9093	13605	57.457m	57.673m
3)Aroclor-1016 {2}	4.648	4.858	17233	26993	59.721m	58.004
4)Aroclor-1016 {3}	5.112	5.238	34592	65941	60.543	68.944m
5)Aroclor-1016 {4}	5.346	5.560	8753	24479	49.648	59.052m
6)Aroclor-1016 {5}	5.458	5.927	21471	16526	51.495	56.477m
7)Aroclor-1260 {1}	6.947	7.226	21041	41782	59.589	67.513
8)Aroclor-1260 {2}	7.198	7.310	24472	44977	59.633	64.530
9)Aroclor-1260 {3}	7.391	7.935	10919	21927	49.368	66.613m#
10)Aroclor-1260 {4}	7.969	8.294	16489	35962	55.958m	57.691
11)Aroclor-1260 {5}	8.682	8.990	25152	36486	51.918	58.907m
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106709.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 12:23
Operator : ZM/MLC/KD
Sample : CAL 1660@50PPB
Misc : S,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:05:01 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

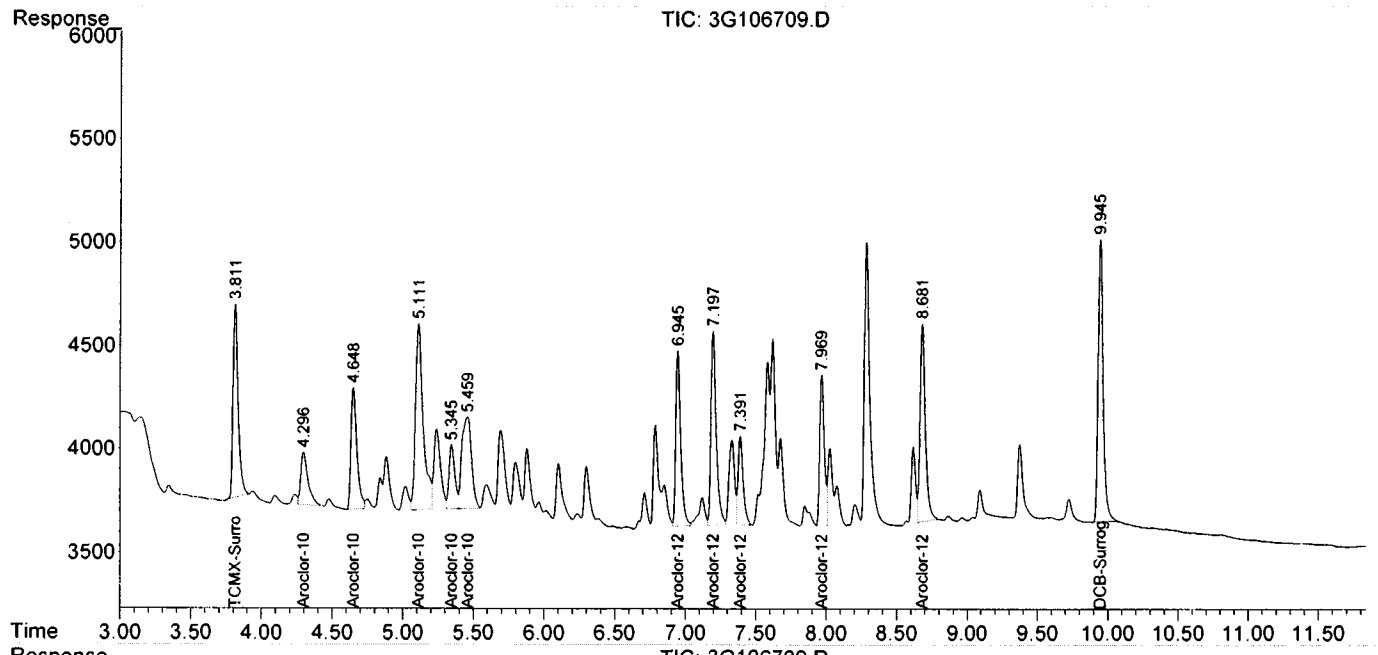
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D.	N.D.
45)DCB-Surrogate	9.946	10.640	33605	65726	5.399	5.869

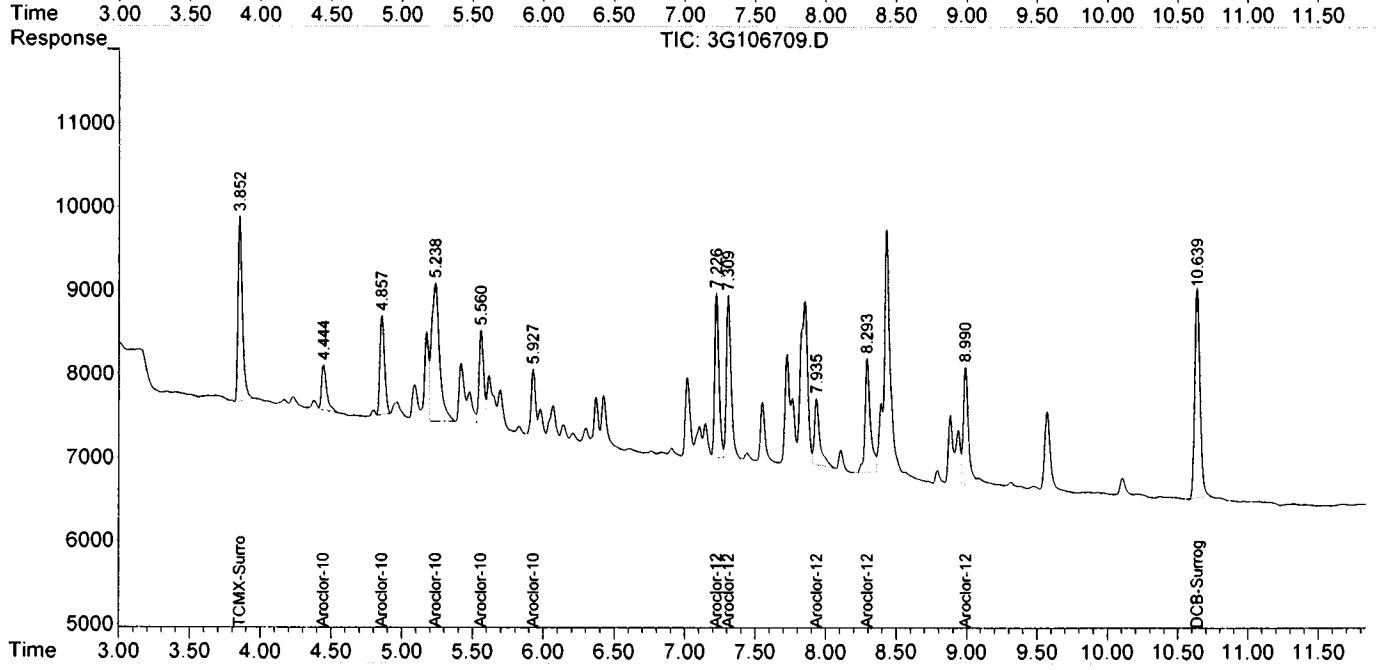
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106709.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 12:23
Operator : ZM/MLC/KD
Sample : CAL 1660@50PPB
Misc : S,PCB
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:05:01 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106710.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 12:38
Operator : ZM/MLC/KD
Sample : CAL 1660@200PPB
Misc : S,PCB
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:59:58 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 12:23:37 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.812	3.853	103631	200135	19.942m	21.207
2)Aroclor-1016 {1}	4.296	4.445	34687	55181	219.173	235.761
3)Aroclor-1016 {2}	4.649	4.857	67268	113222	234.760	245.737m
4)Aroclor-1016 {3}	5.112	5.239	130569	233630	229.686	246.009
5)Aroclor-1016 {4}	5.345	5.561	38823	101313	220.210	246.239
6)Aroclor-1016 {5}	5.459	5.928	91854	69055	220.305	237.499
7)Aroclor-1260 {1}	6.946	7.227	82020	152798	233.699	248.895
8)Aroclor-1260 {2}	7.197	7.310	94769	168331	232.232	243.391
9)Aroclor-1260 {3}	7.390	7.936	47252	89978	213.640	275.364 #
10)Aroclor-1260 {4}	7.970	8.293	64368	146389	218.435	235.752m
11)Aroclor-1260 {5}	8.681	8.989	99656	134456	205.709	217.080m
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106710.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 12:38
Operator : ZM/MLC/KD
Sample : CAL 1660@200PPB
Misc : S,PCB
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:59:58 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 12:23:37 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

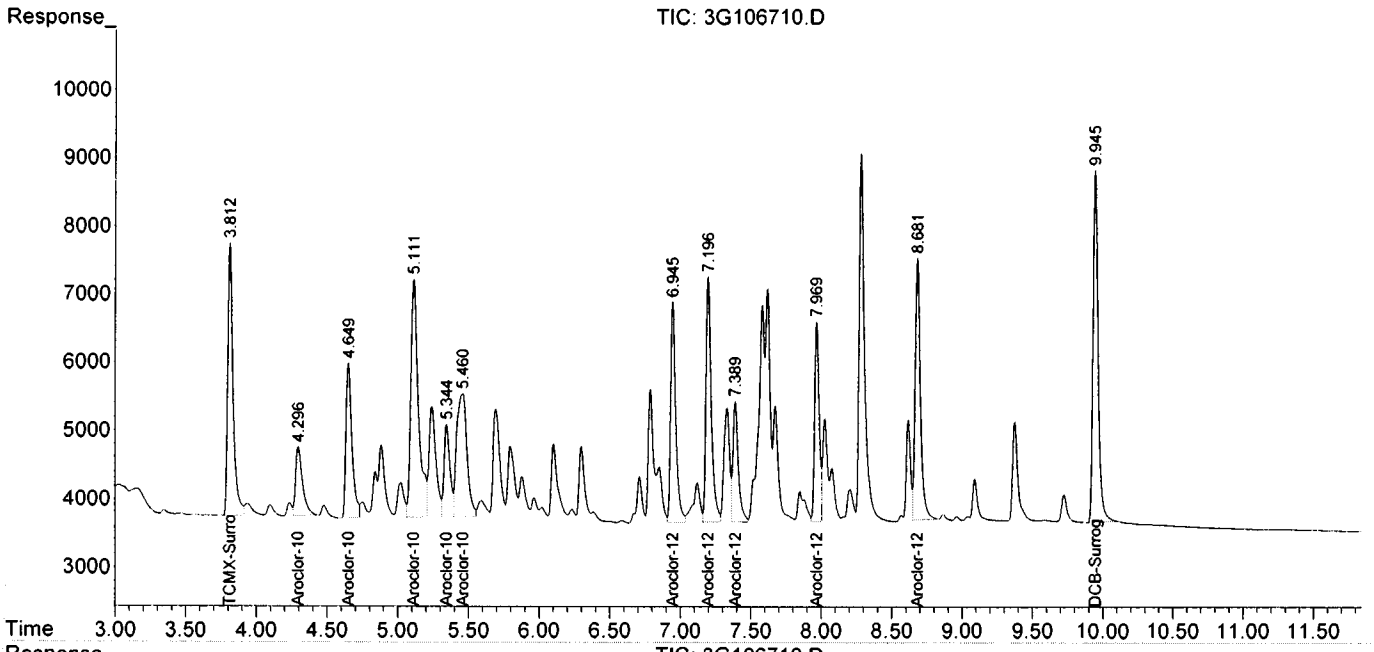
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	9.946	10.640	129162	249130	20.752	22.318

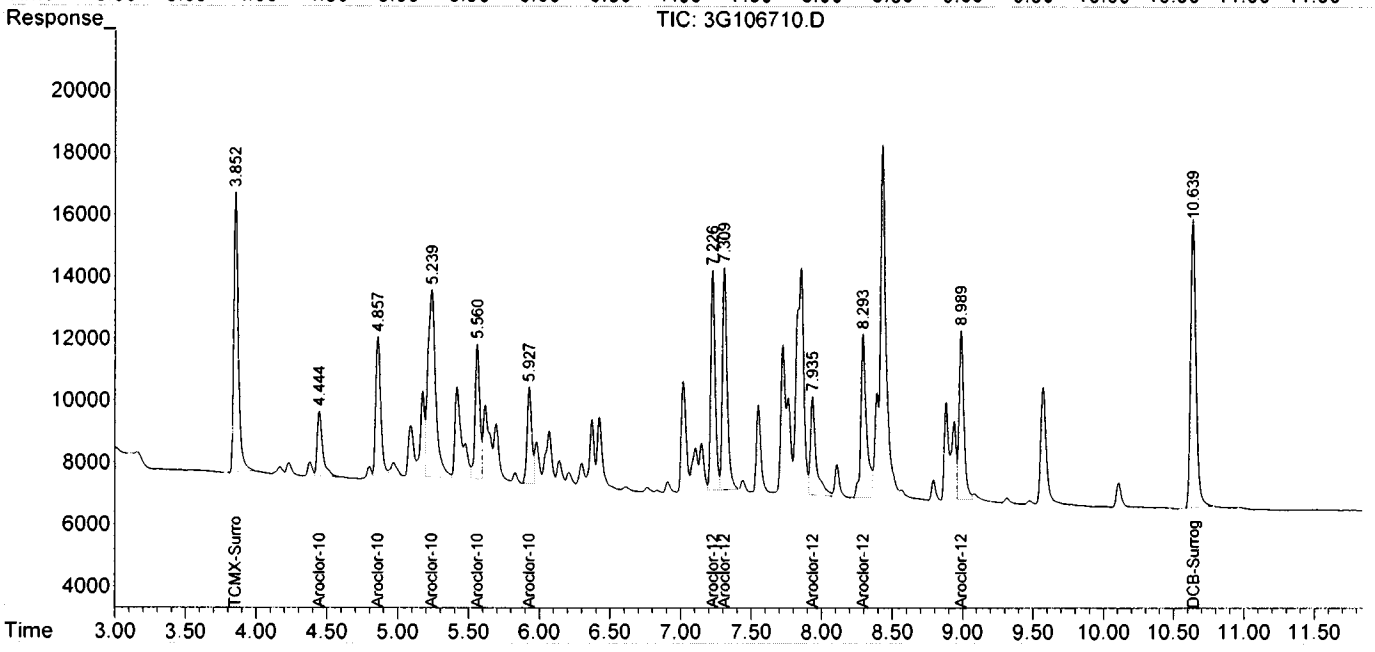
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106710.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 12:38
Operator : ZM/MLC/KD
Sample : CAL 1660@200PPB
Misc : S,PCB
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:59:58 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 12:23:37 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106711.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 12:52
Operator : ZM/MLC/KD
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:05:46 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.811	3.853	263669	501183	50.739	53.108
2)Aroclor-1016 {1}	4.296	4.444	86058	128206	543.765	555.597
3)Aroclor-1016 {2}	4.649	4.858	155603	266225	550.043	588.609
4)Aroclor-1016 {3}	5.111	5.238	300457	553720	533.420	591.271
5)Aroclor-1016 {4}	5.345	5.560	91085	239921	516.654	591.332
6)Aroclor-1016 {5}	5.459	5.928	212161	167234	508.851	582.258
7)Aroclor-1260 {1}	6.946	7.226	191883	342641	552.927	566.137
8)Aroclor-1260 {2}	7.197	7.309	222954	379133	552.086	555.750
9)Aroclor-1260 {3}	7.390	7.937	115829	191939	523.695	594.066
10)Aroclor-1260 {4}	7.970	8.293	154616	337739	524.695	547.626m
11)Aroclor-1260 {5}	8.681	8.988	249672	316598	515.371	511.149m
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106711.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 12:52
Operator : ZM/MLC/KD
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:05:46 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

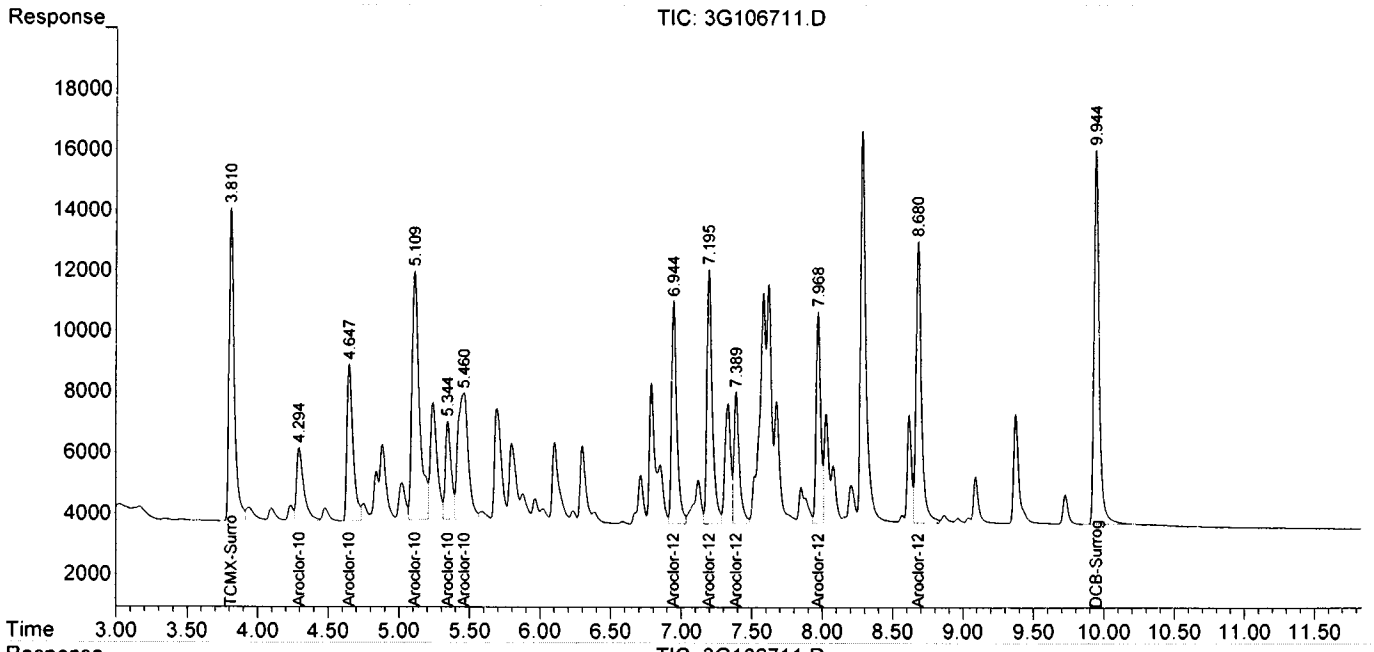
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	9.945	10.639	312185	588709	50.158	53.056

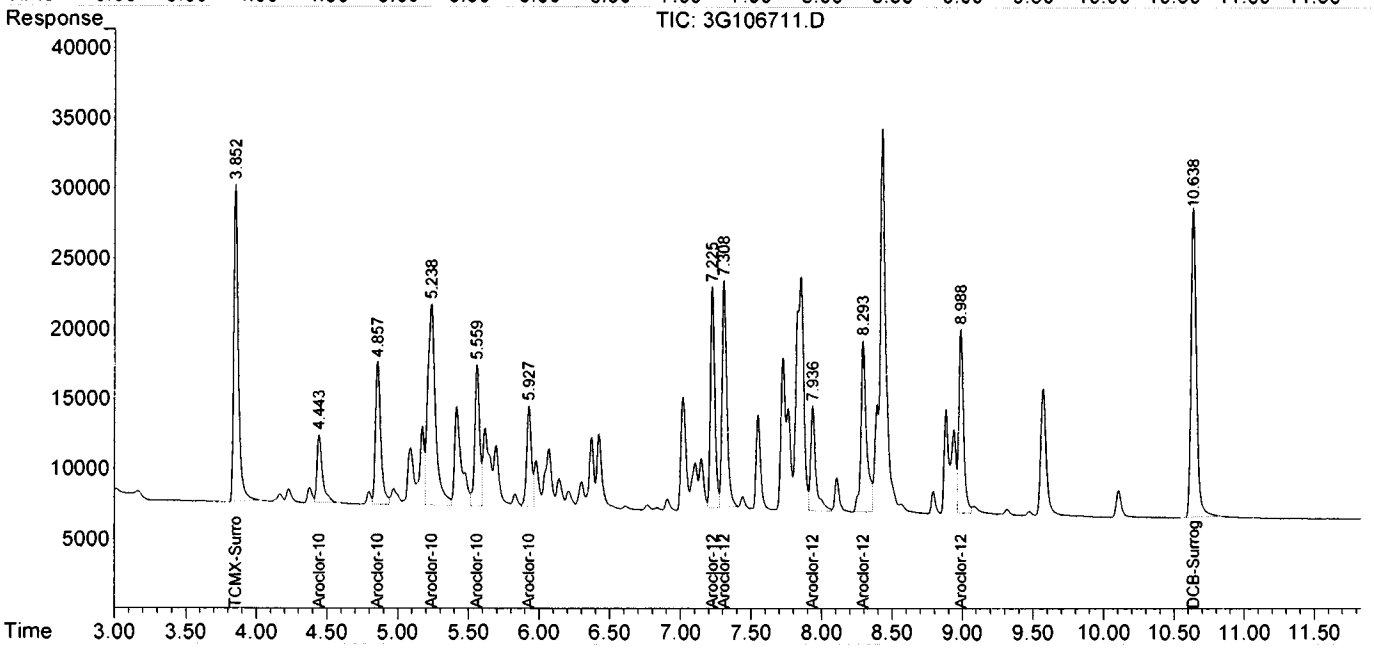
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106711.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 12:52
Operator : ZM/MLC/KD
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:05:46 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106712.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 13:07
Operator : ZM/MLC/KD
Sample : CAL 1660@1000PPB
Misc : S,PCB
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:21:20 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.811	3.853	529692	971207	101.932	102.913
2)Aroclor-1016 {1}	4.294	4.444	161036	236965	1017.516	1050.141
3)Aroclor-1016 {2}	4.648	4.857	285603	469581	1029.783	1065.945
4)Aroclor-1016 {3}	5.109	5.238	565374	981659	1018.778	1069.066
5)Aroclor-1016 {4}	5.344	5.559	178988	424060	1015.261	1065.817
6)Aroclor-1016 {5}	5.460	5.927	420943	297430	1009.597	1053.313
7)Aroclor-1260 {1}	6.945	7.225	346630	624243	1015.522	1054.712
8)Aroclor-1260 {2}	7.195	7.309	405744	714114	1020.406	1071.153
9)Aroclor-1260 {3}	7.390	7.936	215403	339071	973.896	1067.448
10)Aroclor-1260 {4}	7.969	8.293	285349	623707	968.344	1021.925m
11)Aroclor-1260 {5}	8.680	8.988	471087	589935	972.416	952.451m
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106712.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 13:07
Operator : ZM/MLC/KD
Sample : CAL 1660@1000PPB
Misc : S,PCB
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:21:20 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

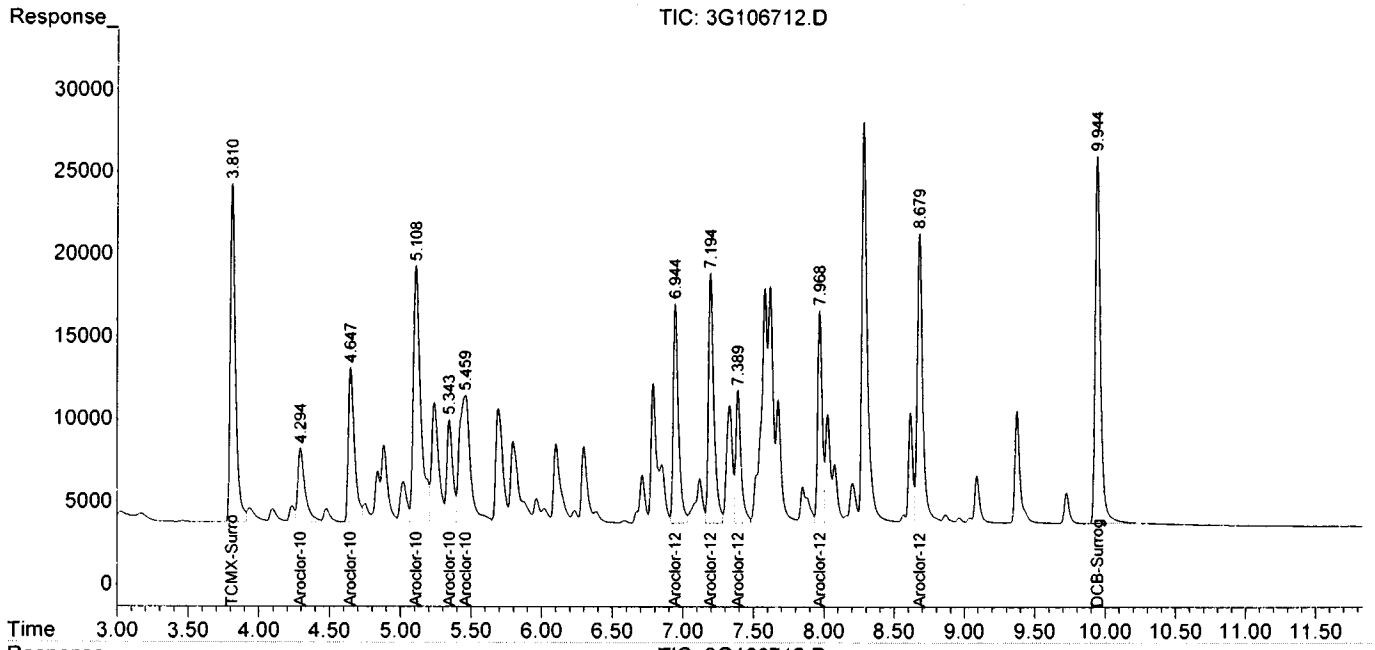
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	9.945	10.639	588464	1097112	94.547	99.788

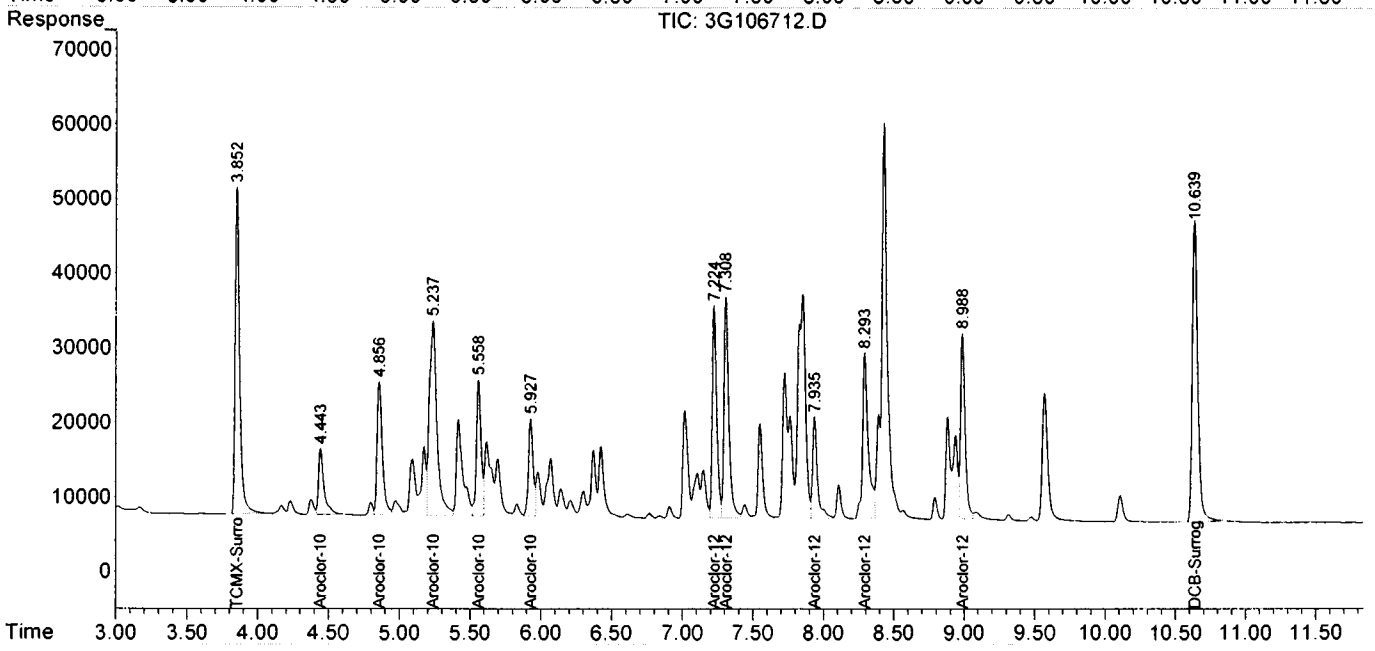
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106712.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 13:07
Operator : ZM/MLC/KD
Sample : CAL 1660@1000PPB
Misc : S,PCB
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:21:20 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106713.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 13:22
Operator : ZM/MLC/KD
Sample : CAL 1660@2000PPB
Misc : S,PCB
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:38:09 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.811	3.852	1088480	1938194	209.462	205.379
2)Aroclor-1016 {1}	4.292	4.442	303358	444624	1916.787	2066.423
3)Aroclor-1016 {2}	4.646	4.856	529797	840943	1989.954	2016.114
4)Aroclor-1016 {3}	5.107	5.236	1066360	1797818	1980.296	2040.334
5)Aroclor-1016 {4}	5.342	5.558	344759	774974	1955.551	2029.121
6)Aroclor-1016 {5}	5.460	5.926	779380	548588	1869.279	2013.059
7)Aroclor-1260 {1}	6.943	7.224	647020	1132493	1962.676	2000.958
8)Aroclor-1260 {2}	7.193	7.307	758680	1299568	1970.420	2038.382
9)Aroclor-1260 {3}	7.388	7.935	418398	626216	1891.696	2043.702
10)Aroclor-1260 {4}	7.967	8.292	548508	1185985	1861.386	1985.553m
11)Aroclor-1260 {5}	8.679	8.987	929083	1137828	1917.807	1837.027m
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106713.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 13:22
Operator : ZM/MLC/KD
Sample : CAL 1660@2000PPB
Misc : S,PCB
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:38:09 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

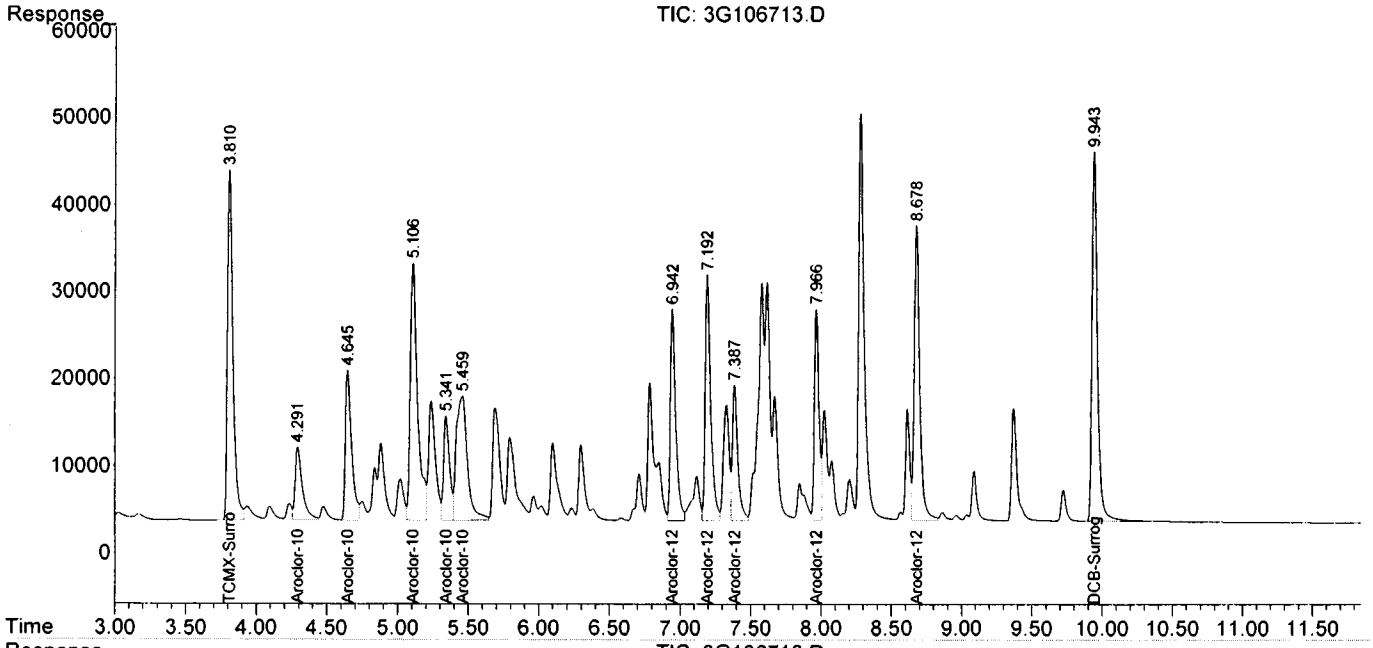
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	9.944	10.638	1148507	2107179	184.528	195.351

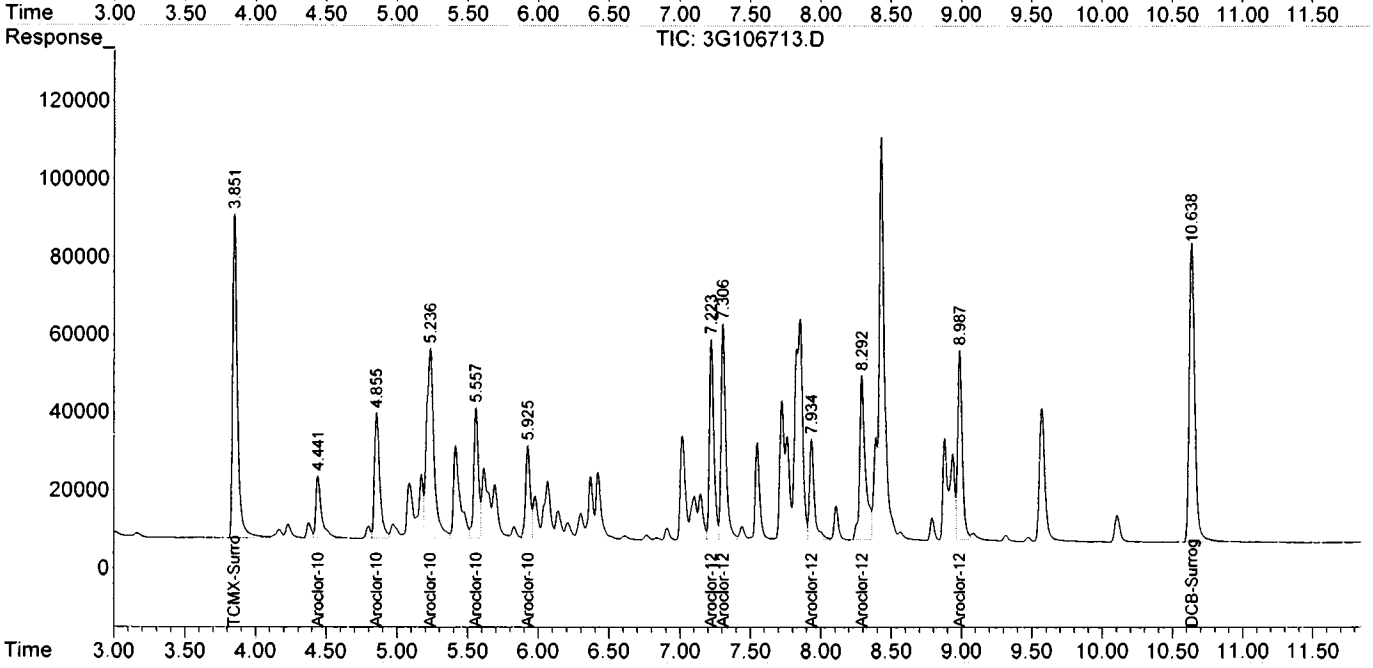
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106713.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 13:22
Operator : ZM/MLC/KD
Sample : CAL 1660@2000PPB
Misc : S,PCB
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:38:09 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106714.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 13:37
Operator : ZM/MLC/KD
Sample : CAL 1660@4000PPB
Misc : S,PCB
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:50:12 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.810	3.851	2175218	3735220	418.590	395.800
2)Aroclor-1016 {1}	4.291	4.441	557677	802820	3523.714	4143.982
3)Aroclor-1016 {2}	4.645	4.856	963903	1491455	3959.271	4069.415
4)Aroclor-1016 {3}	5.106	5.235	1971674	3253693	3899.561	4043.812
5)Aroclor-1016 {4}	5.341	5.557	653384	1405841	3706.141	4030.621
6)Aroclor-1016 {5}	5.459	5.926	1419434	1009985	3404.396	4007.541
7)Aroclor-1260 {1}	6.943	7.224	1193430	2041671	3903.249	3991.333
8)Aroclor-1260 {2}	7.193	7.307	1405240	2356016	3910.966	4092.541
9)Aroclor-1260 {3}	7.388	7.935	826098	1158992	3735.023	4098.768
10)Aroclor-1260 {4}	7.968	8.292	1041328	2256587	3533.790	3953.964
11)Aroclor-1260 {5}	8.679	8.987	1837456	2242336	3792.866	3620.260
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106714.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 13:37
Operator : ZM/MLC/KD
Sample : CAL 1660@4000PPB
Misc : S,PCB
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:50:12 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

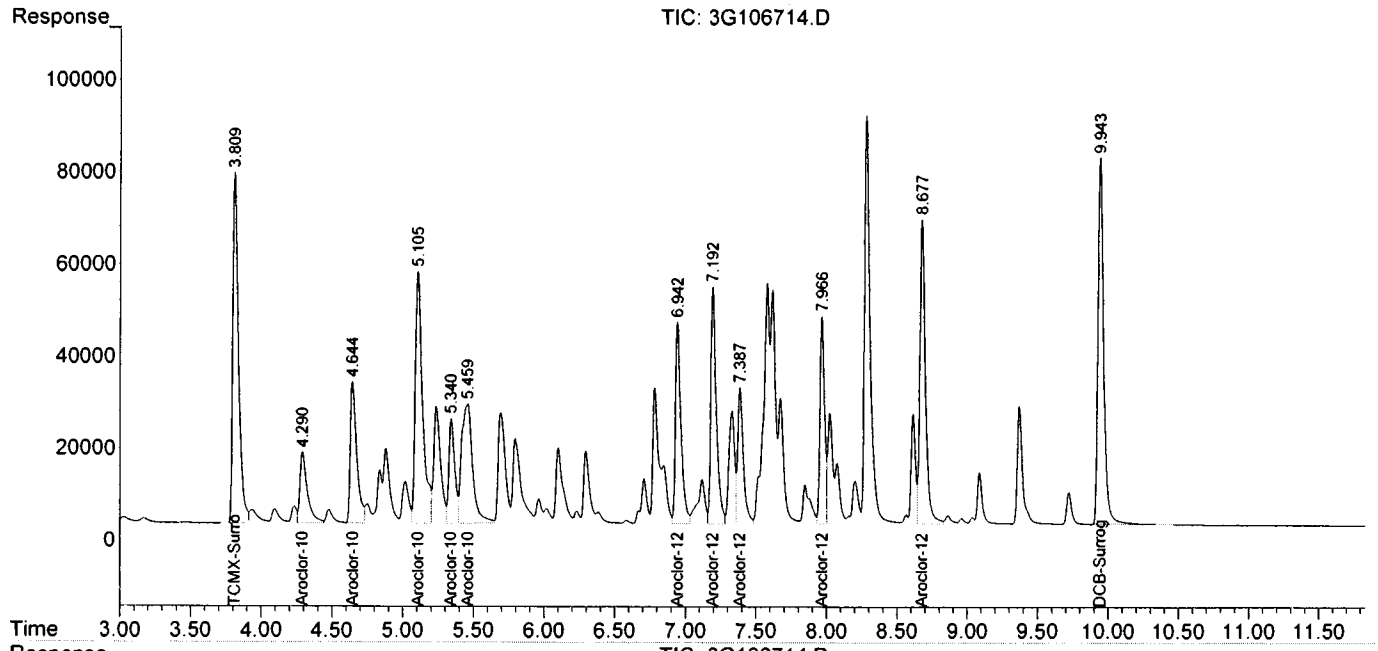
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	9.944	10.637	2230086	4029159	358.302	388.681

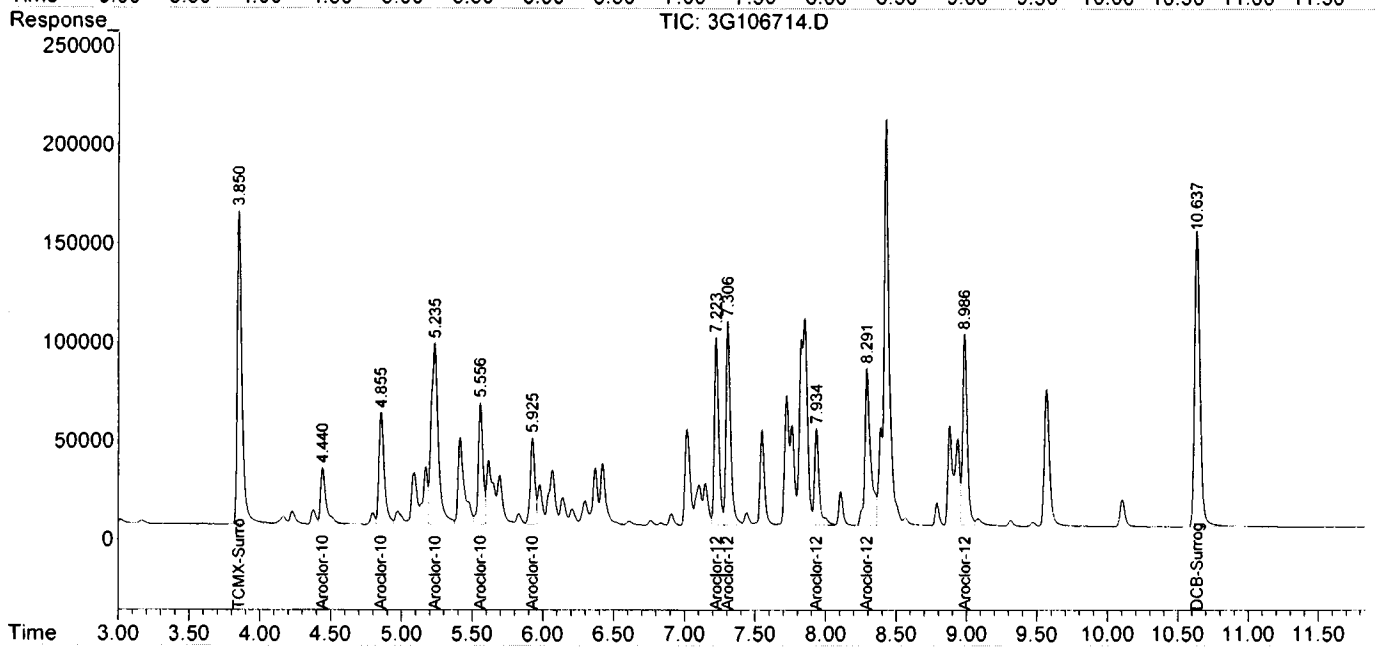
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106714.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 13:37
Operator : ZM/MLC/KD
Sample : CAL 1660@4000PPB
Misc : S,PCB
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 14:50:12 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:00:03 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106704.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 11:09
Operator : ZM/MLC/KD
Sample : CAL 3268@500PPB
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:23:32 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu Jan 11 12:28:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.812	3.852	274414	506045	52.807	53.623
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	4.294	4.442	82877	116055	522.622	478.848m
16)Aroclor-1232 {2}	4.649	4.856	70857	120037	527.648	500.804m
17)Aroclor-1232 {3}	5.110	5.238	128484	235582	496.054	542.806
18)Aroclor-1232 {4}	5.240	5.927	58206	89503	518.408	545.523
19)Aroclor-1232 {5}	5.692	6.068	61195	71345	518.470	549.742
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	7.973	8.387	45137	62067	472.911m	539.338
41)Aroclor-1268 {2}	8.283	8.432	44429	99515	565.101m	522.863
42)Aroclor-1268 {3}	8.861	9.314	349997	682083	506.678m	521.035

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106704.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 11:09
Operator : ZM/MLC/KD
Sample : CAL 3268@500PPB
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:23:32 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu Jan 11 12:28:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

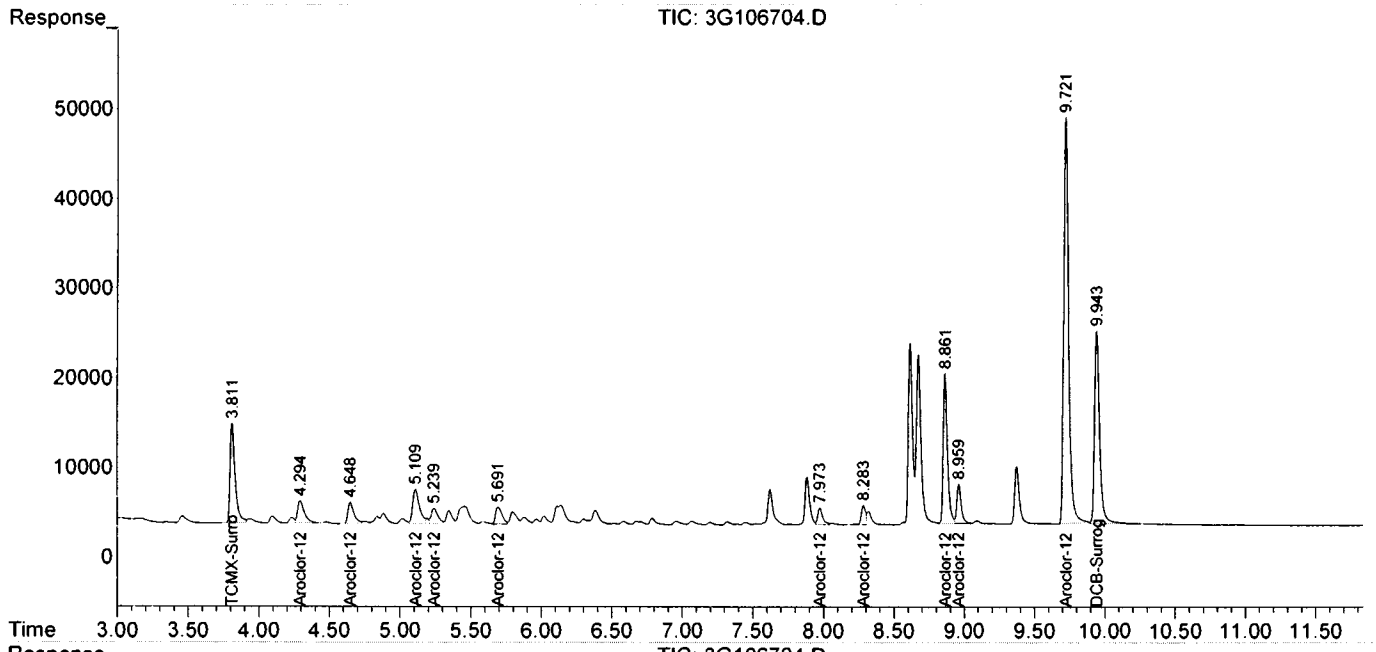
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	8.959	9.471	96929	175993	484.473m	512.030
44)Aroclor-1268 {5}	9.721	10.103	1114174	2164669	501.848m	516.084
45)DCB-Surrogate	9.943	10.637	548495	999125	88.125	90.712

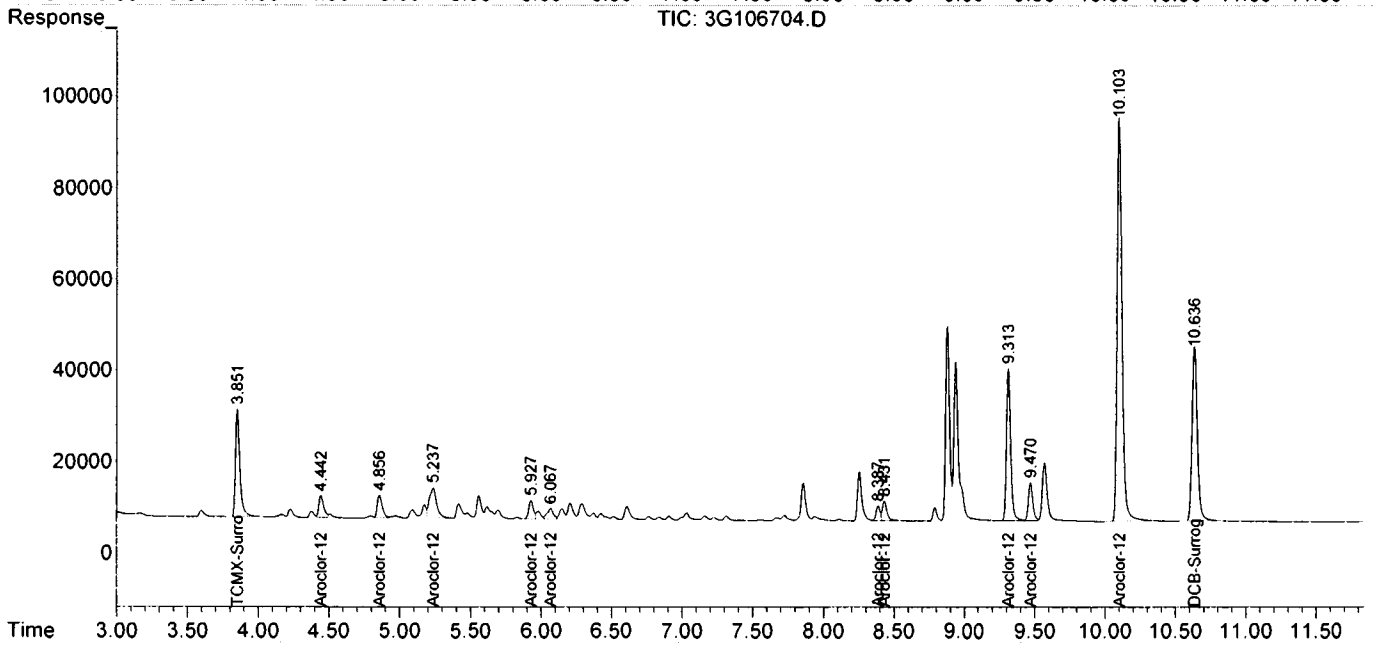
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106704.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 11:09
Operator : ZM/MLC/KD
Sample : CAL 3268@500PPB
Misc : S,PCB
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:23:32 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu Jan 11 12:28:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106705.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 11:23
Operator : ZM/MLC/KD
Sample : CAL 1242@500PPB
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:21:34 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu Jan 11 12:28:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.812	3.853	253989	480460	48.877	50.912
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	4.295	4.443	72287	109676	521.050	532.261
21)Aroclor-1242 {2}	4.648	4.857	120066	184788	503.877	463.677
22)Aroclor-1242 {3}	5.110	5.238	238758	414995	508.118	531.141
23)Aroclor-1242 {4}	5.459	5.559	165889	178277	496.014	519.902
24)Aroclor-1242 {5}	5.693	5.927	101159	144218	502.294	522.167
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D.	N.D.
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D.	N.D.
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D.	N.D.
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D.	N.D.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106705.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 11:23
Operator : ZM/MLC/KD
Sample : CAL 1242@500PPB
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:21:34 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu Jan 11 12:28:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

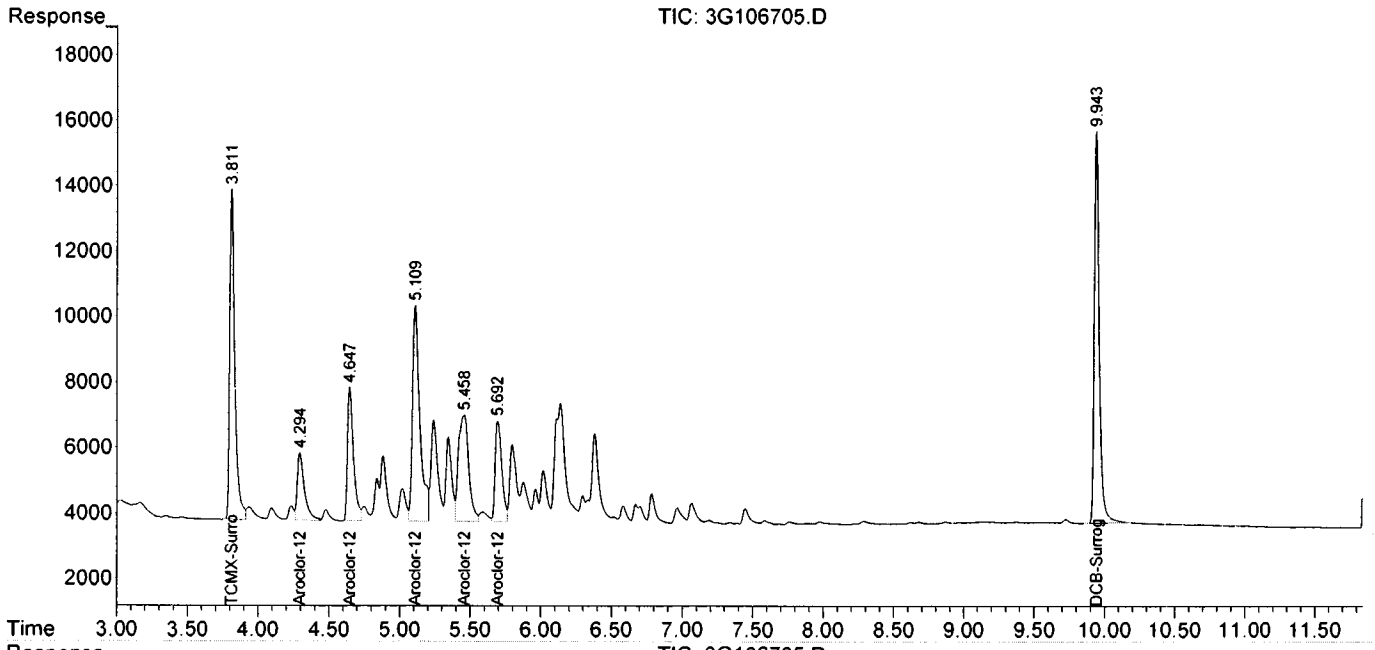
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D.	N.D.
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D.	N.D.
45)DCB-Surrogate	9.944	10.639	293792	552054	47.203	49.720

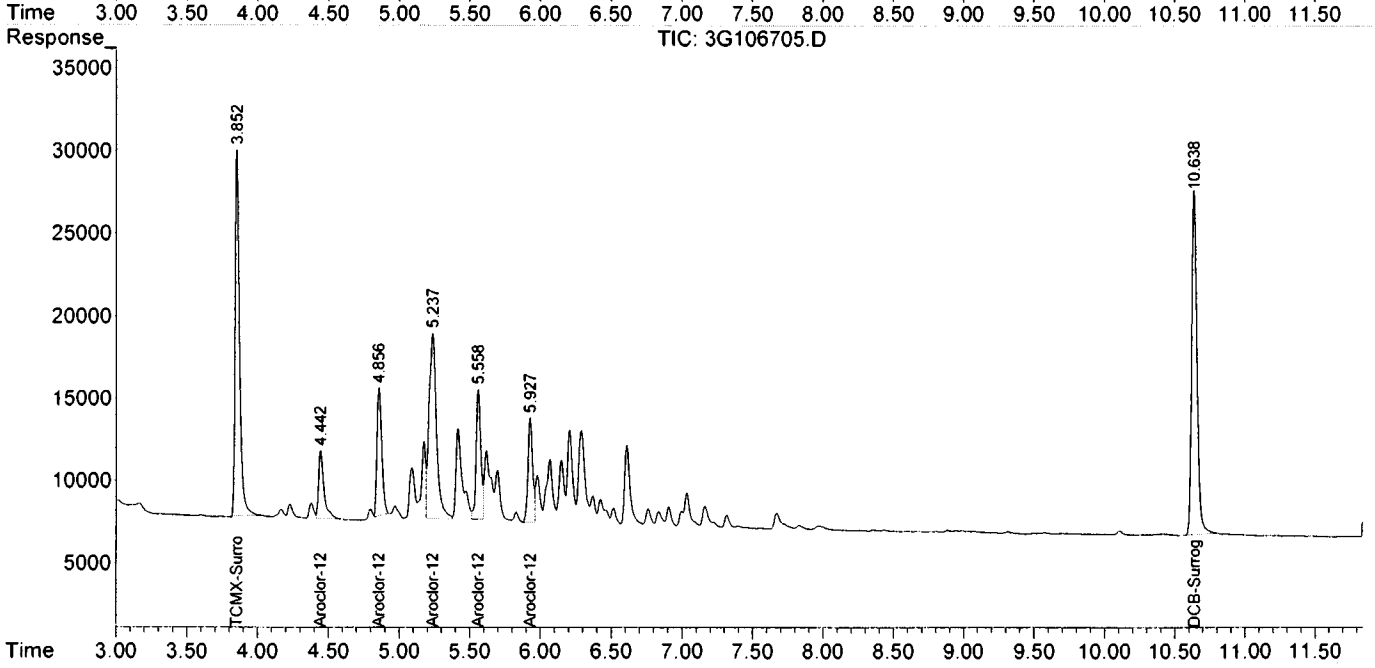
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106705.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 11:23
Operator : ZM/MLC/KD
Sample : CAL 1242@500PPB
Misc : S,PCB
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:21:34 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Thu Jan 11 12:28:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106706.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 11:38
Operator : ZM/MLC/KD
Sample : CAL 1248@500PPB
Misc : S,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:21:57 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 12:21:44 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.812	3.852	273820	509725	52.693	54.013
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	4.649	4.857	64645	99429	537.930	498.393
26)Aroclor-1248 {2}	5.110	5.237	146615	297738	537.565	577.098
27)Aroclor-1248 {3}	5.450	5.559	285204	224909	532.870	550.044
28)Aroclor-1248 {4}	5.796	6.069	130211	206362	467.669	557.371
29)Aroclor-1248 {5}	6.383	6.206	176985	272980	543.003	547.358
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D.	N.D.
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D.	N.D.
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D.	N.D.
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D.	N.D.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106706.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 11:38
Operator : ZM/MLC/KD
Sample : CAL 1248@500PPB
Misc : S,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:21:57 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 12:21:44 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

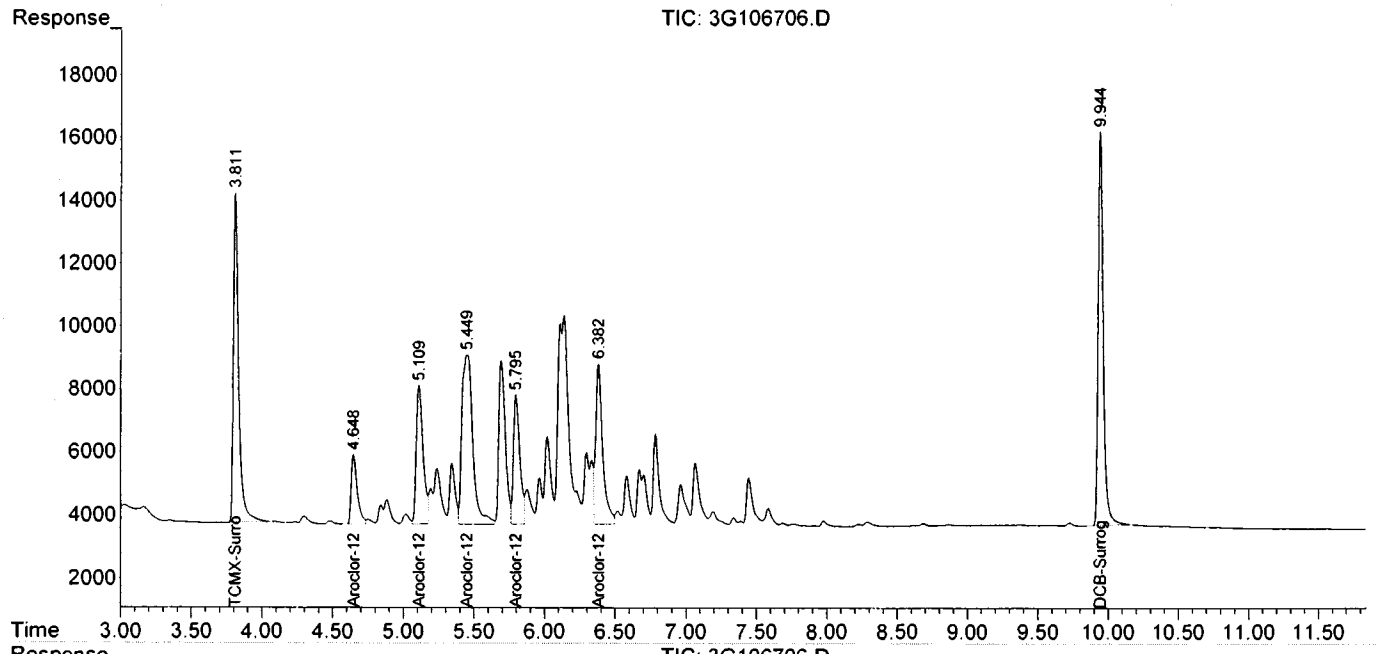
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D.	N.D.
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D.	N.D.
45)DCB-Surrogate	9.944	10.639	312063	587294	50.138	52.927

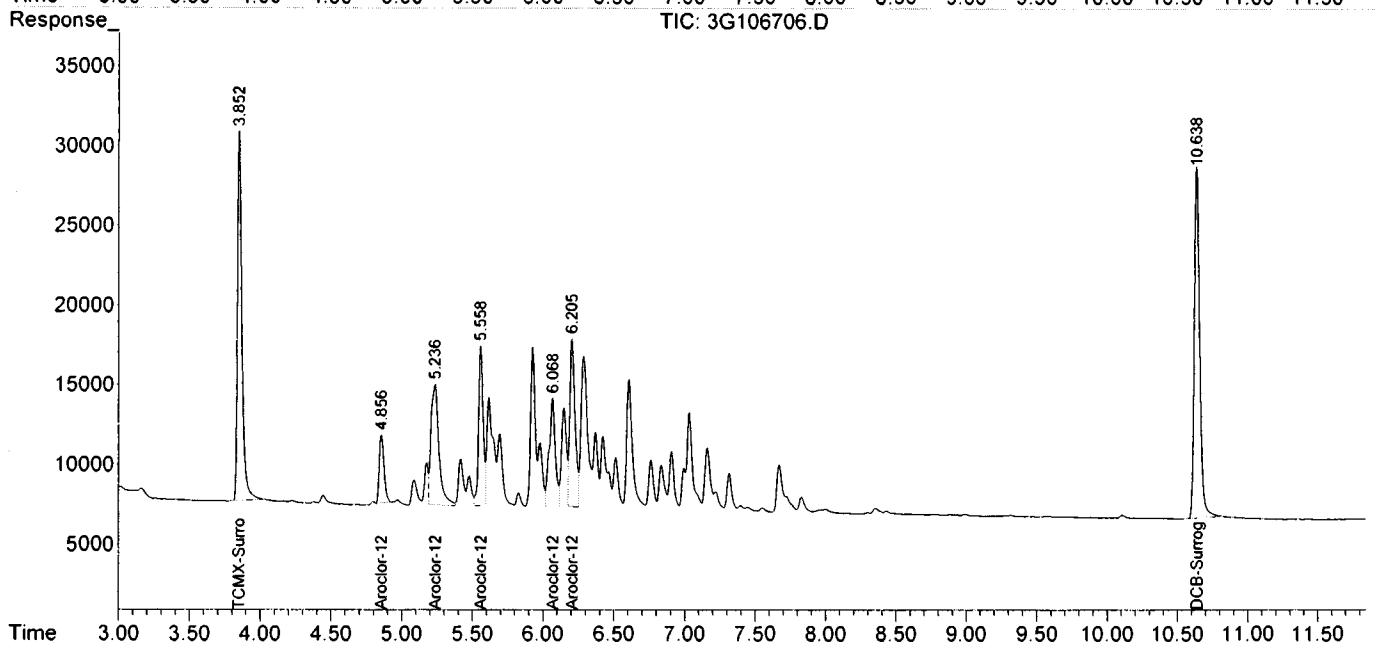
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106706.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 11:38
Operator : ZM/MLC/KD
Sample : CAL 1248@500PPB
Misc : S,PCB
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:21:57 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 12:21:44 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106707.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 11:53
Operator : ZM/MLC/KD
Sample : CAL 2154@500PPB
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:22:15 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 12:21:44 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.811	3.853	267325	494538	51.443	52.403
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	4.096	4.229	39961	72131	467.400	519.214
13)Aroclor-1221 {2}	4.234	4.378	23153	45767	473.095	516.414
14)Aroclor-1221 {3}	4.295	4.443	118190	154642	468.573	515.869
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	6.583	6.423	71432	340541	515.220	505.109
31)Aroclor-1254 {2}	6.787	6.762	281789	111792	501.438	503.090
32)Aroclor-1254 {3}	6.949	7.159	145424	305768	505.004	504.621
33)Aroclor-1254 {4}	7.066	7.671	205750	129296	499.035	489.733
34)Aroclor-1254 {5}	7.445	8.354	87890	148705	486.538	491.683
35)Aroclor-1262 {1}	0.000	0.000	0	0	N.D. d	N.D. d
36)Aroclor-1262 {2}	0.000	0.000	0	0	N.D. d	N.D. d
37)Aroclor-1262 {3}	0.000	0.000	0	0	N.D. d	N.D. d
38)Aroclor-1262 {4}	0.000	0.000	0	0	N.D. d	N.D. d
39)Aroclor-1262 {5}	0.000	0.000	0	0	N.D. d	N.D. d
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106707.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 11:53
Operator : ZM/MLC/KD
Sample : CAL 2154@500PPB
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:22:15 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 12:21:44 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

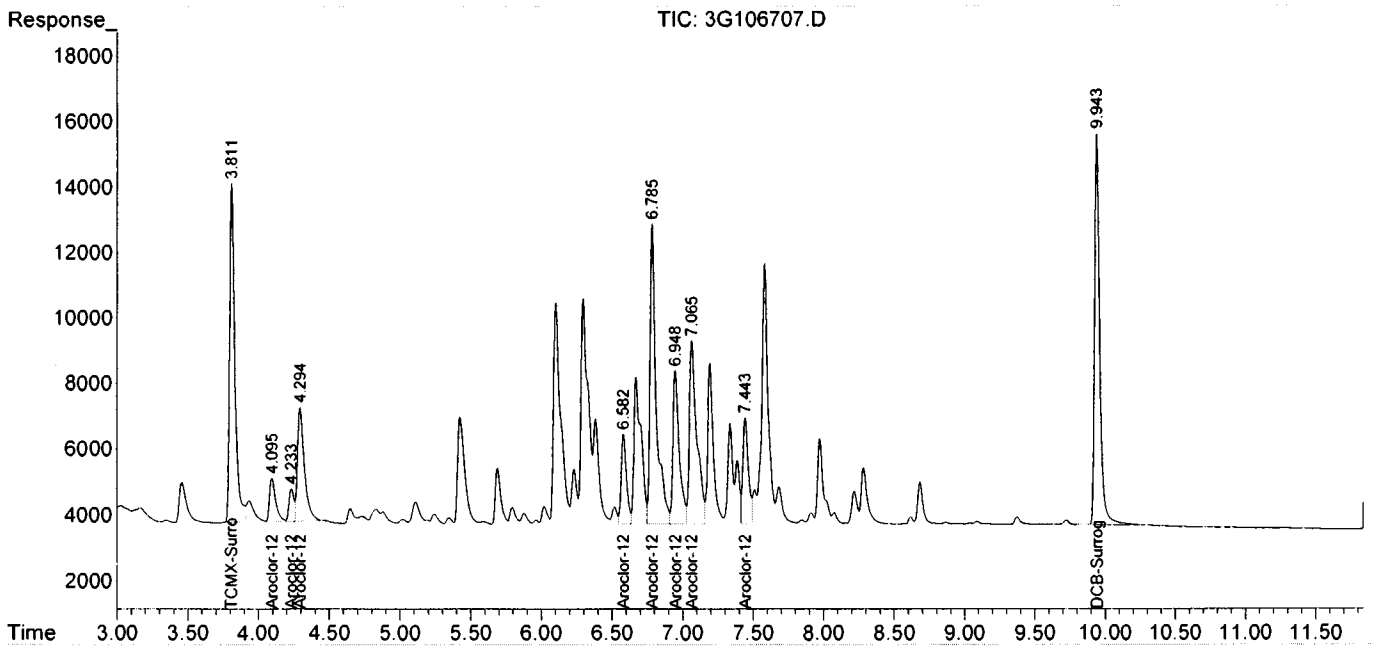
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D.	N.D.
45)DCB-Surrogate	9.944	10.638	300696	558369	48.312	50.294

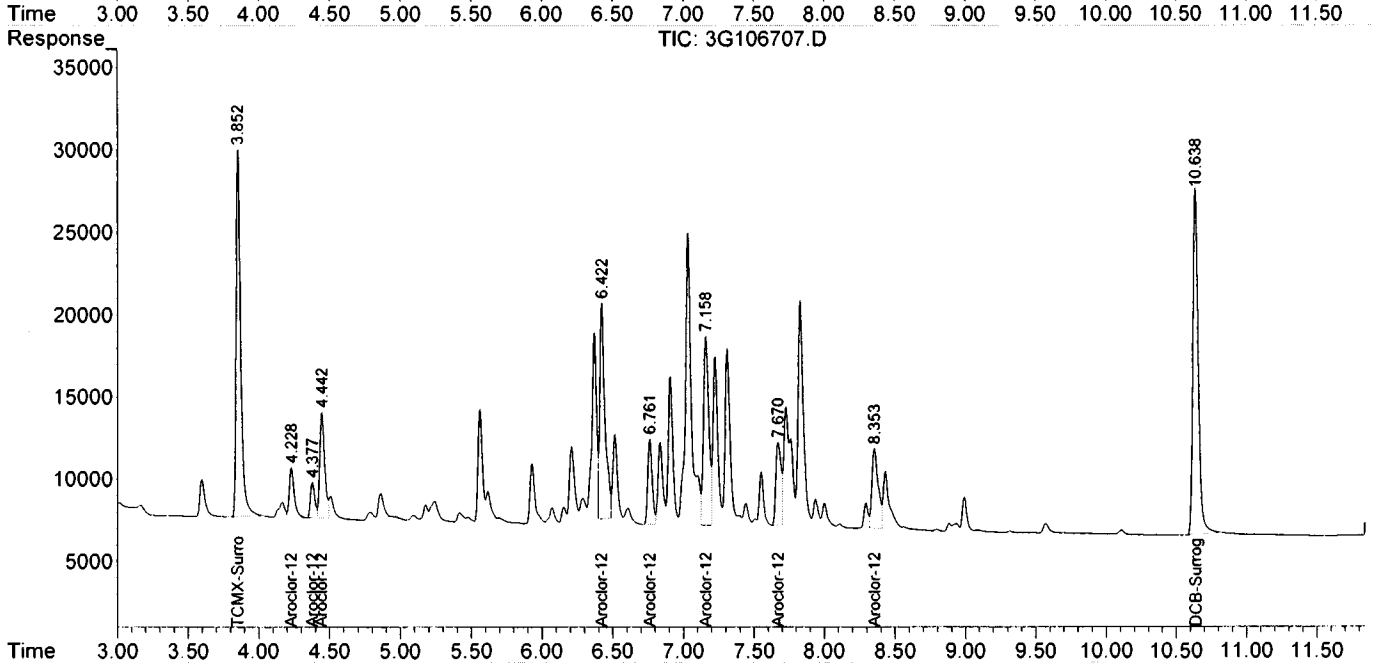
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106707.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 11:53
Operator : ZM/MLC/KD
Sample : CAL 2154@500PPB
Misc : S,PCB
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:22:15 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 12:21:44 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106708.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 12:08
Operator : ZM/MLC/KD
Sample : CAL 1262@500PPB
Misc : S,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:23:10 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 12:21:44 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.812	3.853	261413	487538	50.305	51.662
2)Aroclor-1016 {1}	0.000	0.000	0	0	N.D. d	N.D. d
3)Aroclor-1016 {2}	0.000	0.000	0	0	N.D. d	N.D. d
4)Aroclor-1016 {3}	0.000	0.000	0	0	N.D. d	N.D. d
5)Aroclor-1016 {4}	0.000	0.000	0	0	N.D. d	N.D. d
6)Aroclor-1016 {5}	0.000	0.000	0	0	N.D. d	N.D. d
7)Aroclor-1260 {1}	0.000	0.000	0	0	N.D. d	N.D. d
8)Aroclor-1260 {2}	0.000	0.000	0	0	N.D. d	N.D. d
9)Aroclor-1260 {3}	0.000	0.000	0	0	N.D. d	N.D. d
10)Aroclor-1260 {4}	0.000	0.000	0	0	N.D. d	N.D. d
11)Aroclor-1260 {5}	0.000	0.000	0	0	N.D. d	N.D. d
12)Aroclor-1221 {1}	0.000	0.000	0	0	N.D. d	N.D. d
13)Aroclor-1221 {2}	0.000	0.000	0	0	N.D. d	N.D. d
14)Aroclor-1221 {3}	0.000	0.000	0	0	N.D. d	N.D. d
15)Aroclor-1232 {1}	0.000	0.000	0	0	N.D. d	N.D. d
16)Aroclor-1232 {2}	0.000	0.000	0	0	N.D. d	N.D. d
17)Aroclor-1232 {3}	0.000	0.000	0	0	N.D. d	N.D. d
18)Aroclor-1232 {4}	0.000	0.000	0	0	N.D. d	N.D. d
19)Aroclor-1232 {5}	0.000	0.000	0	0	N.D. d	N.D. d
20)Aroclor-1242 {1}	0.000	0.000	0	0	N.D. d	N.D. d
21)Aroclor-1242 {2}	0.000	0.000	0	0	N.D. d	N.D. d
22)Aroclor-1242 {3}	0.000	0.000	0	0	N.D. d	N.D. d
23)Aroclor-1242 {4}	0.000	0.000	0	0	N.D. d	N.D. d
24)Aroclor-1242 {5}	0.000	0.000	0	0	N.D. d	N.D. d
25)Aroclor-1248 {1}	0.000	0.000	0	0	N.D. d	N.D. d
26)Aroclor-1248 {2}	0.000	0.000	0	0	N.D. d	N.D. d
27)Aroclor-1248 {3}	0.000	0.000	0	0	N.D. d	N.D. d
28)Aroclor-1248 {4}	0.000	0.000	0	0	N.D. d	N.D. d
29)Aroclor-1248 {5}	0.000	0.000	0	0	N.D. d	N.D. d
30)Aroclor-1254 {1}	0.000	0.000	0	0	N.D. d	N.D. d
31)Aroclor-1254 {2}	0.000	0.000	0	0	N.D. d	N.D. d
32)Aroclor-1254 {3}	0.000	0.000	0	0	N.D. d	N.D. d
33)Aroclor-1254 {4}	0.000	0.000	0	0	N.D. d	N.D. d
34)Aroclor-1254 {5}	0.000	0.000	0	0	N.D. d	N.D. d
35)Aroclor-1262 {1}	7.621	7.725	233972	317892	513.170m	502.412
36)Aroclor-1262 {2}	8.616	8.881	139811	285922	500.738m	502.879
37)Aroclor-1262 {3}	8.679	8.988	276458	312615	494.203	496.903
38)Aroclor-1262 {4}	9.375	9.570	128840	340933	493.161	494.839
39)Aroclor-1262 {5}	9.725	10.107	46983	94537	477.750	475.751
40)Aroclor-1268 {1}	0.000	0.000	0	0	N.D. d	N.D. d
41)Aroclor-1268 {2}	0.000	0.000	0	0	N.D. d	N.D. d
42)Aroclor-1268 {3}	0.000	0.000	0	0	N.D. d	N.D. d

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106708.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 12:08
Operator : ZM/MLC/KD
Sample : CAL 1262@500PPB
Misc : S,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:23:10 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 12:21:44 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

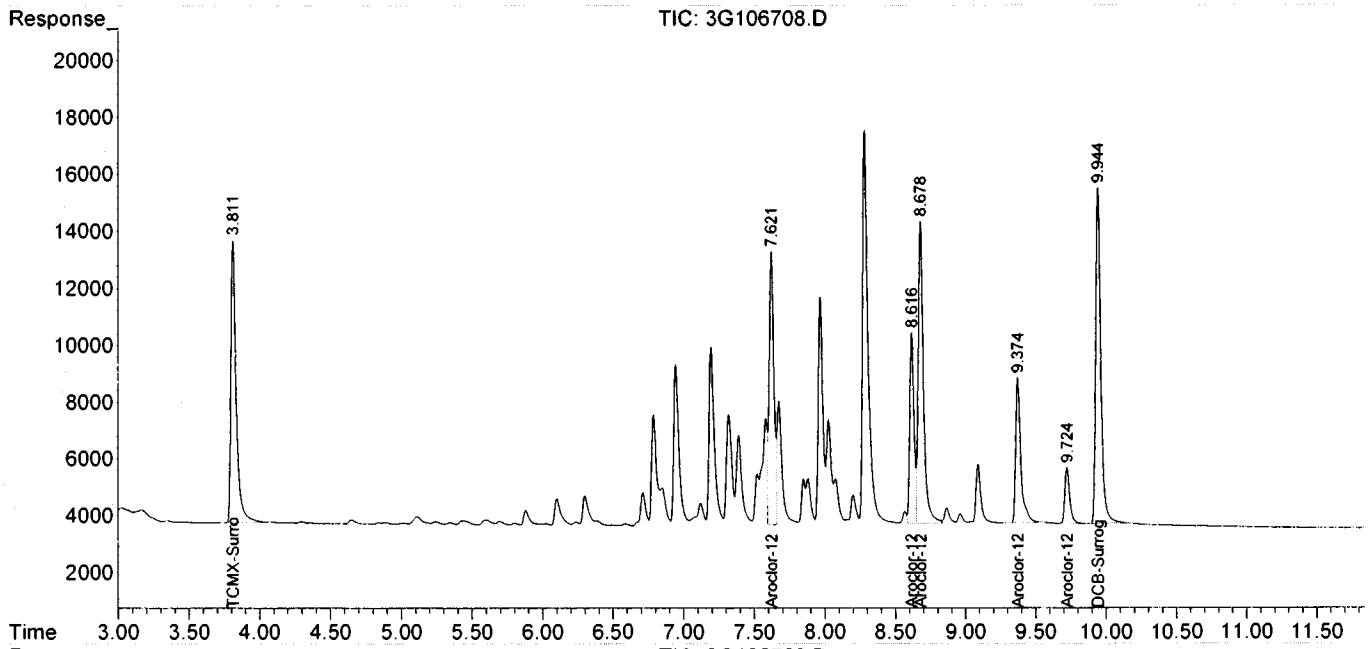
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
43)Aroclor-1268 {4}	0.000	0.000	0	0	N.D. d	N.D. d
44)Aroclor-1268 {5}	0.000	0.000	0	0	N.D. d	N.D. d
45)DCB-Surrogate	9.945	10.640	298476	564974	47.955	50.895

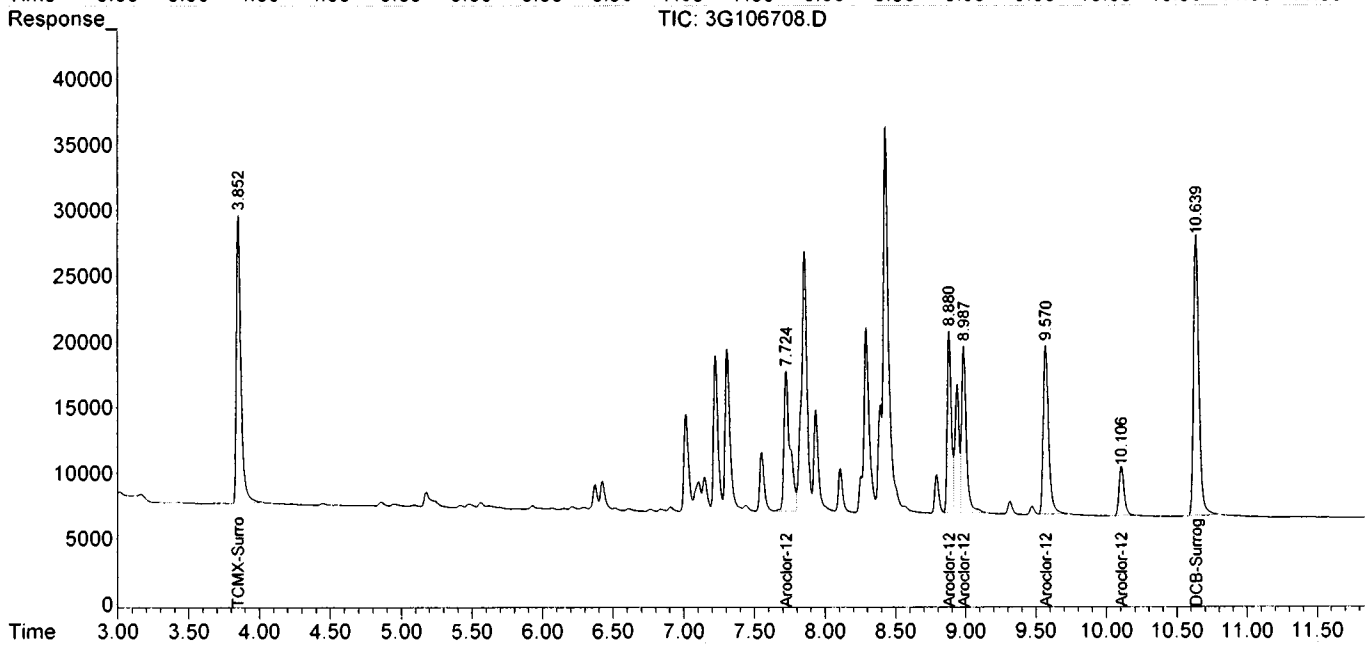
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-0518\
Data File : 3G106708.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 5 Feb 2018 12:08
Operator : ZM/MLC/KD
Sample : CAL 1262@500PPB
Misc : S,PCB
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 05 13:23:10 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 12:21:44 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





TxtDfile: 3G106715.D ICV FORM Date/Time: 02/05/18 13:52

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
TCMX-Surrogate	1	0		104.11	100	104		70	130
TCMX-Surrogate	2	0		102.46	100	102		70	130
Aroclor-1016	2	1		1060.53	1000	106		70	130
Aroclor-1016	1	1		1022.19	1000	102		70	130
Aroclor-1016	1	2		1047.89	1000	105		70	130
Aroclor-1016	2	2		1062.27	1000	106		70	130
Aroclor-1016	1	3		1051.89	1000	105		70	130
Aroclor-1016	2	3		1056.72	1000	106		70	130
Aroclor-1016	1	4		1049.05	1000	105		70	130
Aroclor-1016	2	4		1068.22	1000	107		70	130
Aroclor-1016	1	5		1071.21	1000	107		70	130
Aroclor-1016	2	5		1060.22	1000	106		70	130
Aroclor-1260	2	1		1084.9	1000	108		70	130
Aroclor-1260	1	1		1060.93	1000	106		70	130
Aroclor-1260	2	2		1076.8	1000	108		70	130
Aroclor-1260	1	2		1065.23	1000	107		70	130
Aroclor-1260	1	3		1057.31	1000	106		70	130
Aroclor-1260	2	3		1054.92	1000	105		70	130
Aroclor-1260	2	4		961.61	1000	96		70	130
Aroclor-1260	1	4		941.7	1000	94		70	130
Aroclor-1260	2	5		946.83	1000	95		70	130
Aroclor-1260	1	5		939.94	1000	94		70	130
DCB-Surrogate	1	0		99.29	100	99		70	130
DCB-Surrogate	2	0		104.03	100	104		70	130

Form7
Continuing Calibration

Method: EPA 8082A

Data File:				3G107627.D			3G107641.D			3G107643.D			3G107665.D						
Method:				8082			8082			8082			8082						
Calibration Name:				CAL 1660@1000PP			CAL 1660@2000PP			CAL 1660@500PP			CAL 1660@500PP						
Calibration Date/Time				02/28/18 19:02			02/28/18 22:39			03/01/18 07:36			03/01/18 17:17						
Compound	Limit	Col	Mr	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff	Conc	Conc Exp	%Diff
TCMX-Surrogate	20	1	0	110.2	100	10.2	220.2	200	10.1	50.5	50	1.0	52.8	50	5.6			
Aroclor-1016	20	1	1	1063	1000	6.3	1872	2000	6.4	538.3	500	7.7	543.2	500	8.6			
Aroclor-1016	20	1	2	1088	1000	8.8	2028	2000	1.4	534.5	500	6.9	546.2	500	9.2			
Aroclor-1016	20	1	3	1080	1000	8.0	2067	2000	3.4	516.5	500	3.3	533.0	500	6.6			
Aroclor-1016	20	1	4	1092	1000	9.2	1987	2000	0.7	516.2	500	3.2	533.7	500	6.7			
Aroclor-1016	20	1	5	1107	1000	10.7	1902	2000	4.9	513.5	500	2.7	540.6	500	8.1			
Aroclor-1260	20	1	1	1105	1000	10.5	2003	2000	0.2	516.8	500	3.4	554.9	500	11.0			
Aroclor-1260	20	1	2	1107	1000	10.7	2005	2000	0.2	513.8	500	2.8	550.3	500	10.1			
Aroclor-1260	20	1	3	1091	1000	9.0	1905	2000	4.8	479.4	500	4.1	528.3	500	5.7			
Aroclor-1260	20	1	4	1050	1000	5.0	1847	2000	7.7	493.6	500	1.3	529.9	500	6.0			
Aroclor-1260	20	1	5	1076	1000	7.6	1885	2000	5.8	463.8	500	7.3	518.1	500	3.6			
DCB-Surrogate	20	1	0	97.07	100	2.9	146	200	27.0*	40.9	50	18.2	52.28	50	4.6			
Average Difference	20	1	0			8.3			6.0			5.1			7.1			
TCMX-Surrogate	20	2	0	109.2	100	9.2	210.2	200	5.1	53.34	50	6.7	54.68	50	9.4			
Aroclor-1016	20	2	1	1064	1000	6.4	1968	2000	1.6	527.3	500	5.5	531.5	500	6.3			
Aroclor-1016	20	2	2	1073	1000	7.3	1969	2000	1.5	550.9	500	10.2	560.6	500	12.1			
Aroclor-1016	20	2	3	1070	1000	7.0	1979	2000	1.1	541.2	500	8.2	554.9	500	11.0			
Aroclor-1016	20	2	4	1069	1000	6.9	1973	2000	1.3	537.1	500	7.4	550.1	500	10.0			
Aroclor-1016	20	2	5	1069	1000	6.9	1970	2000	1.5	532.1	500	6.4	558.1	500	11.6			
Aroclor-1260	20	2	1	1113	1000	11.3	2022	2000	1.1	542.8	500	8.6	564.5	500	12.9			
Aroclor-1260	20	2	2	1136	1000	13.6	2083	2000	4.1	537.6	500	7.5	559.3	500	11.9			
Aroclor-1260	20	2	3	1130	1000	13.0	2036	2000	1.8	548.4	500	9.7	594.1	500	18.8			
Aroclor-1260	20	2	4	1077	1000	7.7	2050	2000	2.5	554.3	500	10.9	568.9	500	13.8			
Aroclor-1260	20	2	5	1131	1000	13.1	2111	2000	5.5	538.8	500	7.8	583.6	500	16.7			
DCB-Surrogate	20	2	0	100.5	100	0.5	184.2	200	7.9	51.72	50	3.4	58.27	50	16.5			
Average Difference	20	2	0			8.6			2.9			7.7			12.6			

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
RtWindow Summary

Method: EPA 8082A

Data File:			3G106709.D		3G107627.D		3G107643.D				
Calibration Name:			CAL 1660@50PPB		CAL 1660@1000PPB		CAL 1660@500PPB				
Calibration Date/Time			2/5/2018 12:23:00 PM		2/28/2018 7:02:00 PM		3/1/2018 7:36:00 AM				
Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
TCMX-Surrogate	1	0	3.81	(3.75 - 3.87)	3.82	(3.76 - 3.88)	3.81	(3.75 - 3.87)				
Aroclor-1016	1	1	4.29	(4.25 - 4.33)	4.30	(4.26 - 4.34)	4.29	(4.25 - 4.33)				
Aroclor-1016	1	2	4.65	(4.61 - 4.69)	4.65	(4.61 - 4.69)	4.64	(4.60 - 4.68)				
Aroclor-1016	1	3	5.11	(5.07 - 5.15)	5.11	(5.07 - 5.15)	5.10	(5.06 - 5.14)				
Aroclor-1016	1	4	5.34	(5.30 - 5.38)	5.34	(5.30 - 5.38)	5.33	(5.29 - 5.37)				
Aroclor-1016	1	5	5.46	(5.42 - 5.50)	5.46	(5.42 - 5.50)	5.45	(5.41 - 5.49)				
Aroclor-1260	1	1	6.94	(6.90 - 6.98)	6.94	(6.90 - 6.98)	6.94	(6.90 - 6.98)				
Aroclor-1260	1	2	7.20	(7.16 - 7.24)	7.19	(7.15 - 7.23)	7.19	(7.15 - 7.23)				
Aroclor-1260	1	3	7.39	(7.35 - 7.43)	7.39	(7.35 - 7.43)	7.38	(7.34 - 7.42)				
Aroclor-1260	1	4	7.97	(7.93 - 8.01)	7.97	(7.93 - 8.01)	7.96	(7.92 - 8.00)				
Aroclor-1260	1	5	8.68	(8.64 - 8.72)	8.68	(8.64 - 8.72)	8.67	(8.63 - 8.71)				
Aroclor-1221	1	1	4.10	(4.06 - 4.14)								
Aroclor-1221	1	2	4.23	(4.19 - 4.27)								
Aroclor-1221	1	3	4.29	(4.25 - 4.33)								
Aroclor-1232	1	1	4.29	(4.25 - 4.33)								
Aroclor-1232	1	2	4.65	(4.61 - 4.69)								
Aroclor-1232	1	3	5.11	(5.07 - 5.15)								
Aroclor-1232	1	4	5.24	(5.20 - 5.28)								
Aroclor-1232	1	5	5.69	(5.65 - 5.73)								
Aroclor-1242	1	1	4.29	(4.25 - 4.33)								
Aroclor-1242	1	2	4.65	(4.61 - 4.69)								
Aroclor-1242	1	3	5.11	(5.07 - 5.15)								
Aroclor-1242	1	4	5.46	(5.42 - 5.50)								
Aroclor-1242	1	5	5.69	(5.65 - 5.73)								
Aroclor-1248	1	1	4.65	(4.61 - 4.69)								
Aroclor-1248	1	2	5.11	(5.07 - 5.15)								
Aroclor-1248	1	3	5.45	(5.41 - 5.49)								
Aroclor-1248	1	4	5.80	(5.76 - 5.84)								
Aroclor-1248	1	5	6.38	(6.34 - 6.42)								
Aroclor-1254	1	1	6.58	(6.54 - 6.62)								
Aroclor-1254	1	2	6.79	(6.75 - 6.83)								
Aroclor-1254	1	3	6.95	(6.91 - 6.99)								
Aroclor-1254	1	4	7.07	(7.03 - 7.11)								
Aroclor-1254	1	5	7.44	(7.40 - 7.48)								
Aroclor-1262	1	1	7.62	(7.58 - 7.66)								
Aroclor-1262	1	2	8.62	(8.58 - 8.66)								
Aroclor-1262	1	3	8.68	(8.64 - 8.72)								
Aroclor-1262	1	4	9.37	(9.33 - 9.41)								
Aroclor-1262	1	5	9.72	(9.68 - 9.76)								
Aroclor-1268	1	1	7.97	(7.93 - 8.01)								
Aroclor-1268	1	2	8.28	(8.24 - 8.32)								
Aroclor-1268	1	3	8.86	(8.82 - 8.90)								
Aroclor-1268	1	4	8.96	(8.92 - 9.00)								
Aroclor-1268	1	5	9.72	(9.68 - 9.76)								
DCB-Surrogate	1	0	9.94	(9.88 - 10.00)	9.94	(9.88 - 10.00)	9.93	(9.87 - 9.99)				
TCMX-Surrogate	2	0	3.85	(3.79 - 3.91)	3.86	(3.80 - 3.92)	3.85	(3.79 - 3.91)				
Aroclor-1016	2	1	4.44	(4.40 - 4.48)	4.45	(4.41 - 4.49)	4.44	(4.40 - 4.48)				
Aroclor-1016	2	2	4.86	(4.82 - 4.90)	4.86	(4.82 - 4.90)	4.85	(4.81 - 4.89)				
Aroclor-1016	2	3	5.24	(5.20 - 5.28)	5.24	(5.20 - 5.28)	5.23	(5.19 - 5.27)				
Aroclor-1016	2	4	5.56	(5.52 - 5.60)	5.56	(5.52 - 5.60)	5.56	(5.52 - 5.60)				
Aroclor-1016	2	5	5.93	(5.89 - 5.97)	5.93	(5.89 - 5.97)	5.92	(5.88 - 5.96)				
Aroclor-1260	2	1	7.23	(7.19 - 7.27)	7.23	(7.19 - 7.27)	7.22	(7.18 - 7.26)				
Aroclor-1260	2	2	7.31	(7.27 - 7.35)	7.31	(7.27 - 7.35)	7.31	(7.27 - 7.35)				
Aroclor-1260	2	3	7.94	(7.90 - 7.98)	7.94	(7.90 - 7.98)	7.93	(7.89 - 7.97)				
Aroclor-1260	2	4	8.29	(8.25 - 8.33)	8.30	(8.26 - 8.34)	8.29	(8.25 - 8.33)				
Aroclor-1260	2	5	8.99	(8.95 - 9.03)	8.99	(8.95 - 9.03)	8.98	(8.94 - 9.02)				
Aroclor-1221	2	1	4.23	(4.19 - 4.27)								
Aroclor-1221	2	2	4.38	(4.34 - 4.42)								
Aroclor-1221	2	3	4.44	(4.40 - 4.48)								
Aroclor-1232	2	1	4.44	(4.40 - 4.48)								
Aroclor-1232	2	2	4.86	(4.82 - 4.90)								
Aroclor-1232	2	3	5.24	(5.20 - 5.28)								
Aroclor-1232	2	4	5.93	(5.89 - 5.97)								
Aroclor-1232	2	5	6.07	(6.03 - 6.11)								
Aroclor-1242	2	1	4.44	(4.40 - 4.48)								
Aroclor-1242	2	2	4.86	(4.82 - 4.90)								
Aroclor-1242	2	3	5.24	(5.20 - 5.28)								
Aroclor-1242	2	4	5.56	(5.52 - 5.60)								
Aroclor-1242	2	5	5.93	(5.89 - 5.97)								
Aroclor-1248	2	1	4.86	(4.82 - 4.90)								
Aroclor-1248	2	2	5.24	(5.20 - 5.28)								
Aroclor-1248	2	3	5.56	(5.52 - 5.60)								
Aroclor-1248	2	4	6.07	(6.03 - 6.11)								
Aroclor-1248	2	5	6.21	(6.17 - 6.25)								
Aroclor-1254	2	1	6.42	(6.38 - 6.46)								
Aroclor-1254	2	2	6.76	(6.72 - 6.80)								
Aroclor-1254	2	3	7.16	(7.12 - 7.20)								
Aroclor-1254	2	4	7.67	(7.63 - 7.71)								
Aroclor-1254	2	5	8.35	(8.31 - 8.39)								
Aroclor-1262	2	1	7.73	(7.69 - 7.77)								
Aroclor-1262	2	2	8.88	(8.84 - 8.92)								
Aroclor-1262	2	3	8.99	(8.95 - 9.03)								
Aroclor-1262	2	4	9.57	(9.53 - 9.61)								
Aroclor-1262	2	5	10.11	(10.07 - 10.15)								
Aroclor-1268	2	1	8.39	(8.35 - 8.43)								
Aroclor-1268	2	2	8.43	(8.39 - 8.47)								
Aroclor-1268	2	3	9.31	(9.27 - 9.35)								
Aroclor-1268	2	4	9.47	(9.43 - 9.51)								
Aroclor-1268	2	5	10.10	(10.06 - 10.14)								
DCB-Surrogate	2	0	10.64	(10.58 - 10.70)	10.64	(10.58 - 10.70)	10.63	(10.57 - 10.69)				

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107627.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 19:02
Operator : ZM/MLC/KD
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 20:14:42 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

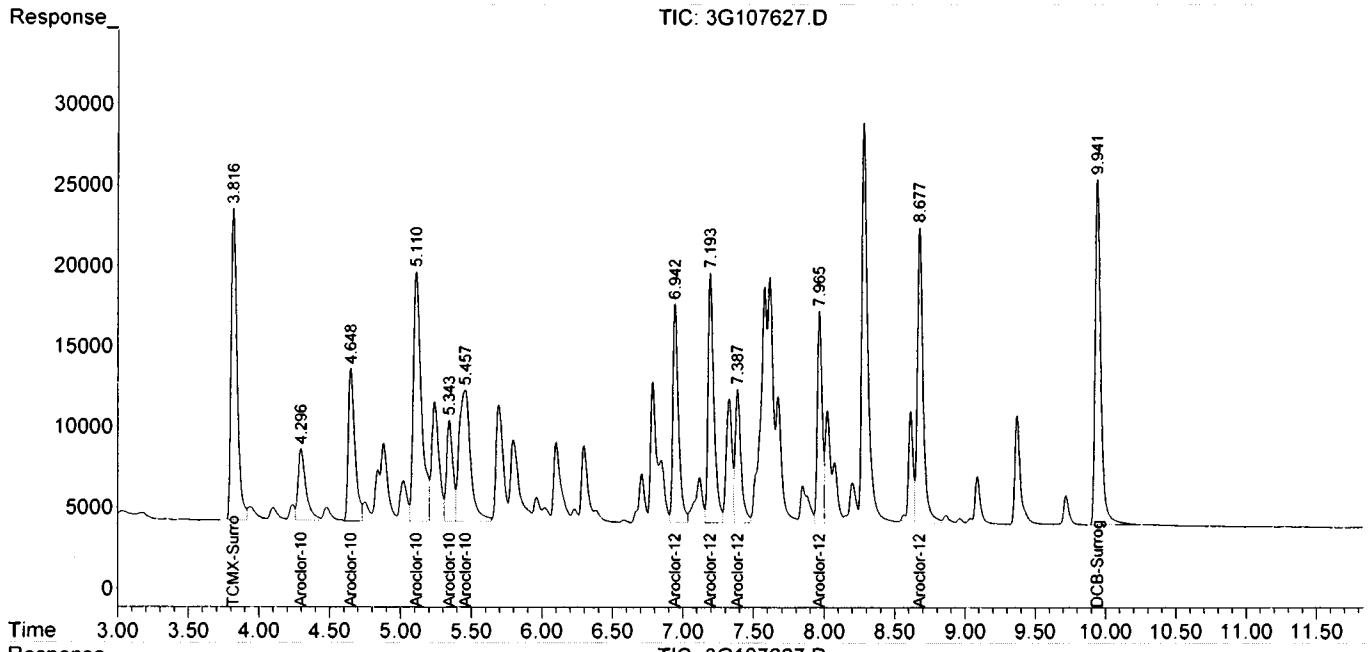
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.817	3.858	575601	1063203	110.148	109.231
2)Aroclor-1016 {1}	4.297	4.448	173622	250971	1063.475	1064.234
3)Aroclor-1016 {2}	4.648	4.861	306651	492331	1087.743	1072.538
4)Aroclor-1016 {3}	5.111	5.241	604836	1035729	1079.512	1070.417
5)Aroclor-1016 {4}	5.344	5.562	194073	446235	1092.288	1069.057
6)Aroclor-1016 {5}	5.457	5.930	457315	313395	1107.079	1069.329
7)Aroclor-1260 {1}	6.944	7.227	378930	678621	1105.448	1113.182
8)Aroclor-1260 {2}	7.195	7.312	443930	788552	1107.332	1135.873
9)Aroclor-1260 {3}	7.388	7.938	239441	377832	1090.499	1130.430
10)Aroclor-1260 {4}	7.967	8.295	311585	666525	1049.817	1077.200
11)Aroclor-1260 {5}	8.678	8.990	519494	660796	1076.430	1130.617m
45)DCB-Surrogate	9.943	10.641	592512	1099590	97.066	100.505

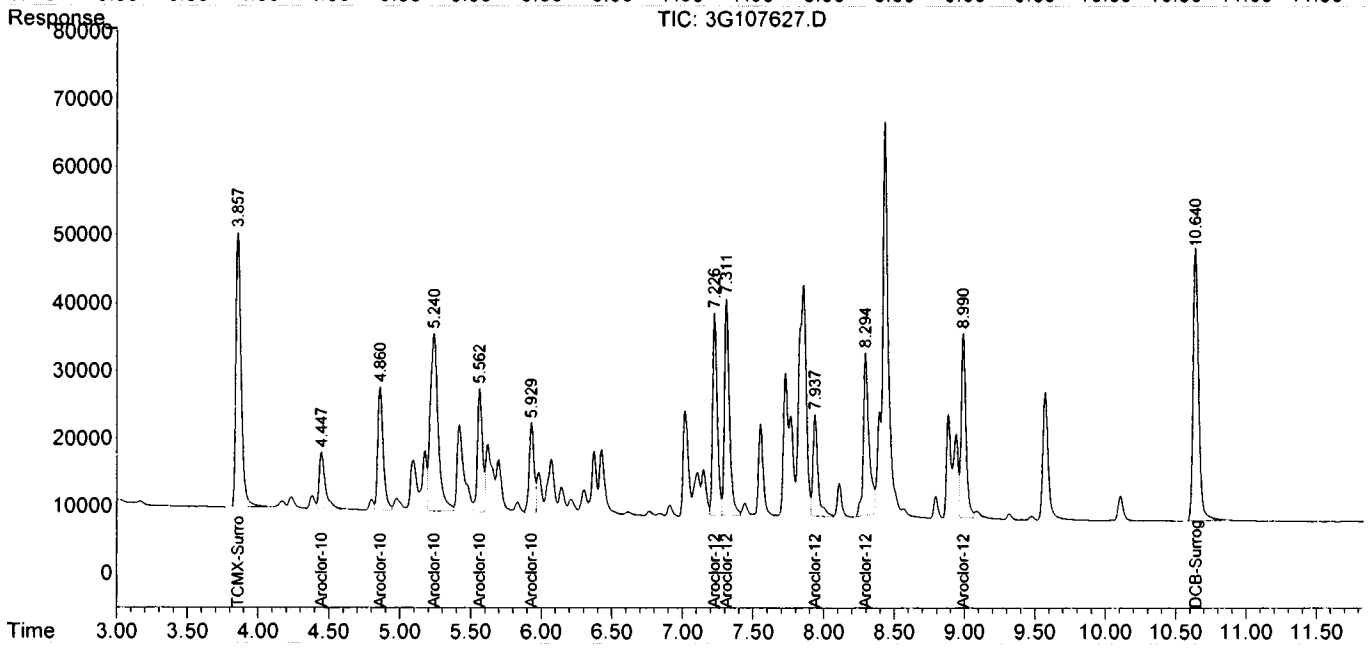
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107627.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 19:02
Operator : ZM/MLC/KD
Sample : CAL 1660@1000PPB
Misc : S,PCB:0.5
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 20:14:42 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107641.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 22:39
Operator : ZM/MLC/KD
Sample : CAL 1660@2000PPB
Misc : A,PCB:0.25
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 23:57:11 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

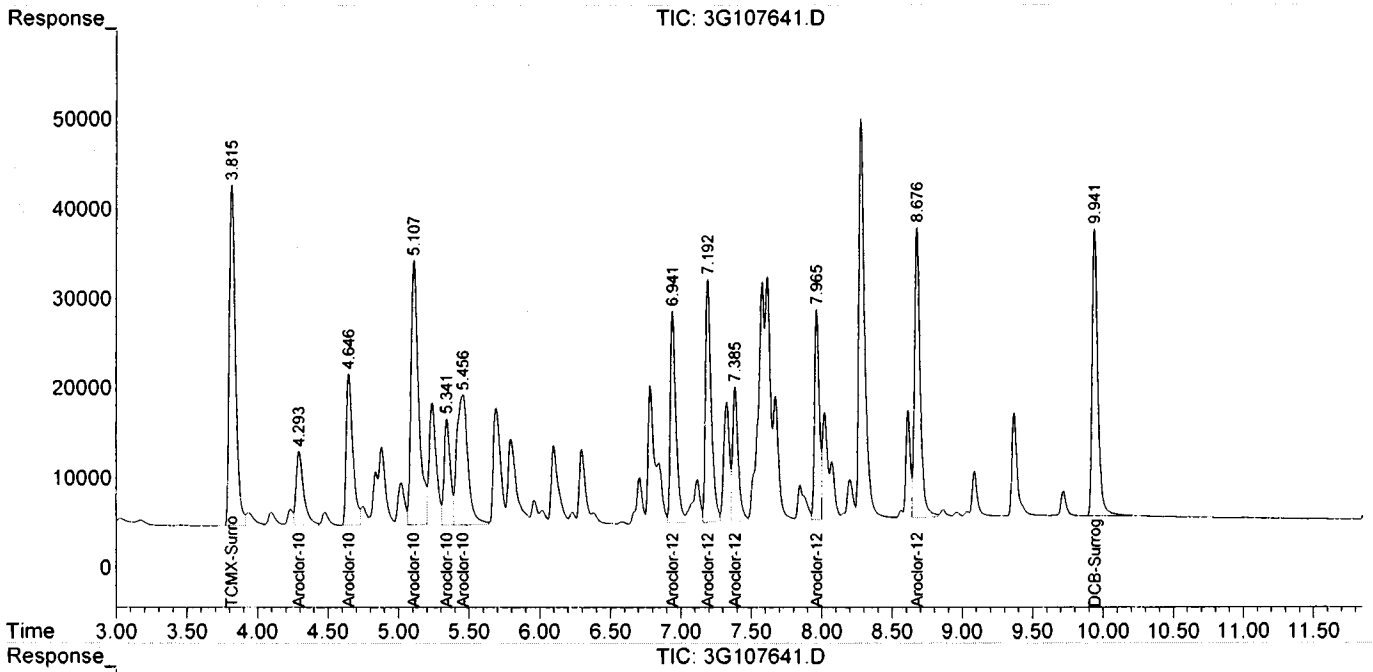
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.816	3.856	1150775	2046296	220.215	210.231
2)Aroclor-1016 {1}	4.294	4.446	305689	442675	1872.417	1967.992
3)Aroclor-1016 {2}	4.647	4.859	544706	851225	2028.270	1969.042
4)Aroclor-1016 {3}	5.108	5.239	1110616	1818949	2067.010	1978.915
5)Aroclor-1016 {4}	5.342	5.561	353030	782926	1986.939	1973.156
6)Aroclor-1016 {5}	5.457	5.929	785884	552501	1902.487	1970.261
7)Aroclor-1260 {1}	6.942	7.227	658685	1168852	2003.117	2022.309
8)Aroclor-1260 {2}	7.193	7.310	772541	1372531	2004.964	2082.613
9)Aroclor-1260 {3}	7.387	7.937	418173	651389	1904.504	2035.915
10)Aroclor-1260 {4}	7.966	8.293	548150	1230541	1846.870	2049.905m
11)Aroclor-1260 {5}	8.677	8.989	909655	1215805	1884.873	2110.722m
45)DCB-Surrogate	9.942	10.640	891024	1969629	145.969	184.165 #

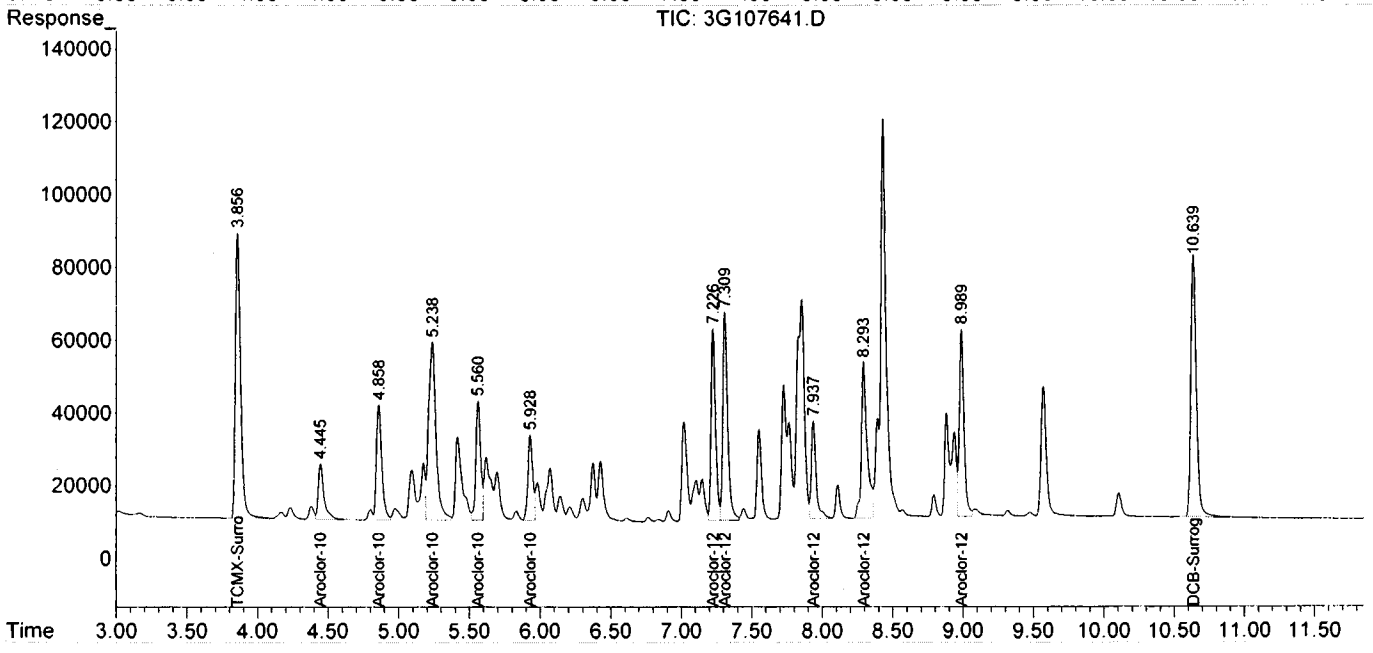
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107641.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 22:39
Operator : ZM/MLC/KD
Sample : CAL 1660@2000PPB
Misc : A,PCB:0.25
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 23:57:11 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\03-01-18\
Data File : 3G107643.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 1 Mar 2018 7:36
Operator : ZM/MLC/KD
Sample : CAL 1660@500PPB
Misc : A,PCB
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 01 08:59:43 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

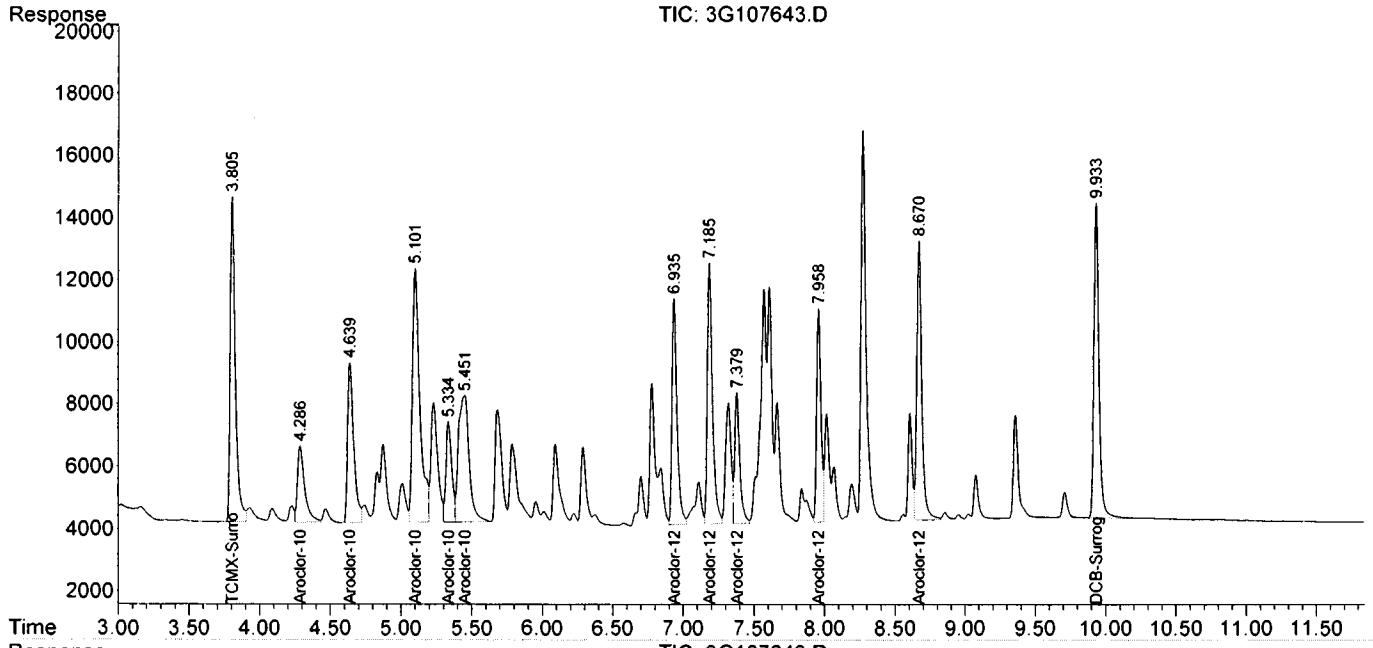
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.806	3.848	263881	519198	50.497	53.341
2)Aroclor-1016 {1}	4.287	4.440	87887	127762	538.328	527.310
3)Aroclor-1016 {2}	4.640	4.853	154883	261427	534.499	550.850
4)Aroclor-1016 {3}	5.102	5.235	296175	538959	516.534	541.230
5)Aroclor-1016 {4}	5.335	5.556	91711	230698	516.174	537.077
6)Aroclor-1016 {5}	5.451	5.924	212108	159952	513.475	532.066
7)Aroclor-1260 {1}	6.936	7.222	181889	341706	516.827	542.844
8)Aroclor-1260 {2}	7.186	7.305	211260	385141	513.756	537.561
9)Aroclor-1260 {3}	7.380	7.932	105264	188336	479.410	548.409
10)Aroclor-1260 {4}	7.959	8.289	146492	348452	493.573	554.257m
11)Aroclor-1260 {5}	8.671	8.984	223810	317630	463.751	538.764m
45)DCB-Surrogate	9.933	10.633	249666	573220	40.901m	51.716 #

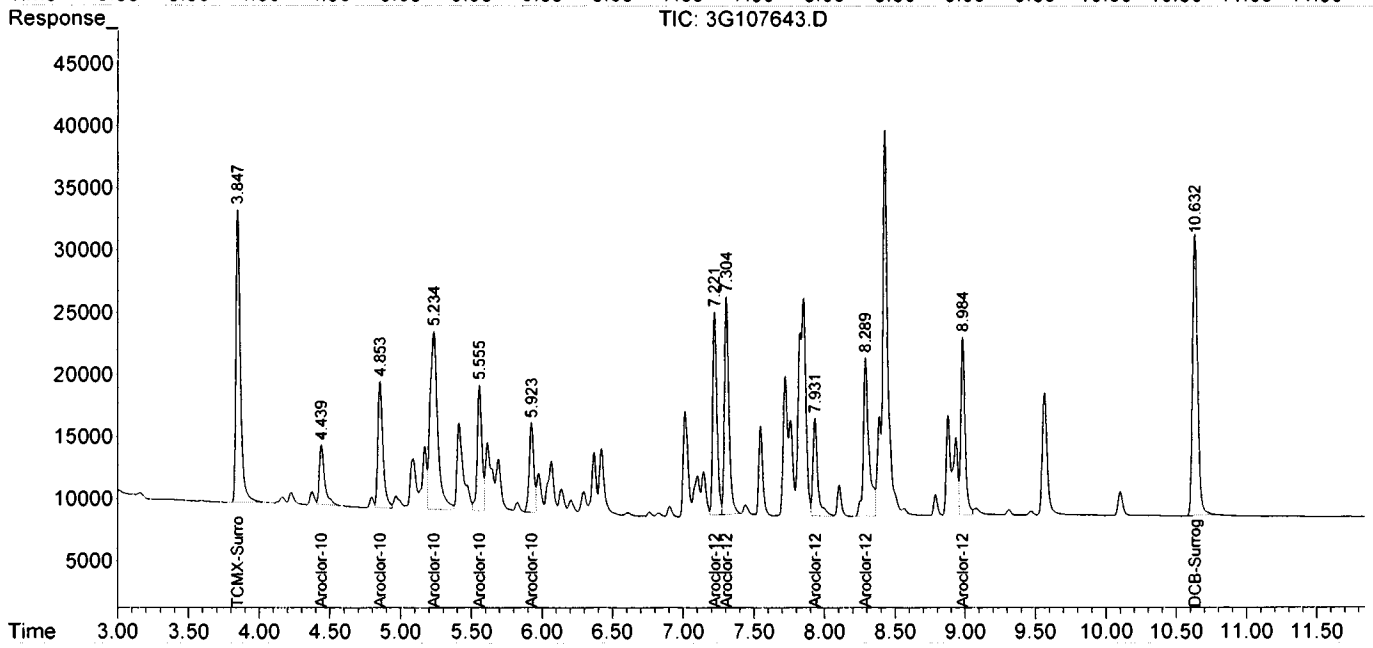
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\03-01-18\
Data File : 3G107643.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 1 Mar 2018 7:36
Operator : ZM/MLC/KD
Sample : CAL 1660@500PPB
Misc : A,PCB
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 01 08:59:43 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\03-01-18\
Data File : 3G107665.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 1 Mar 2018 17:17
Operator : ZM/MLC/KD
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 01 18:51:13 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

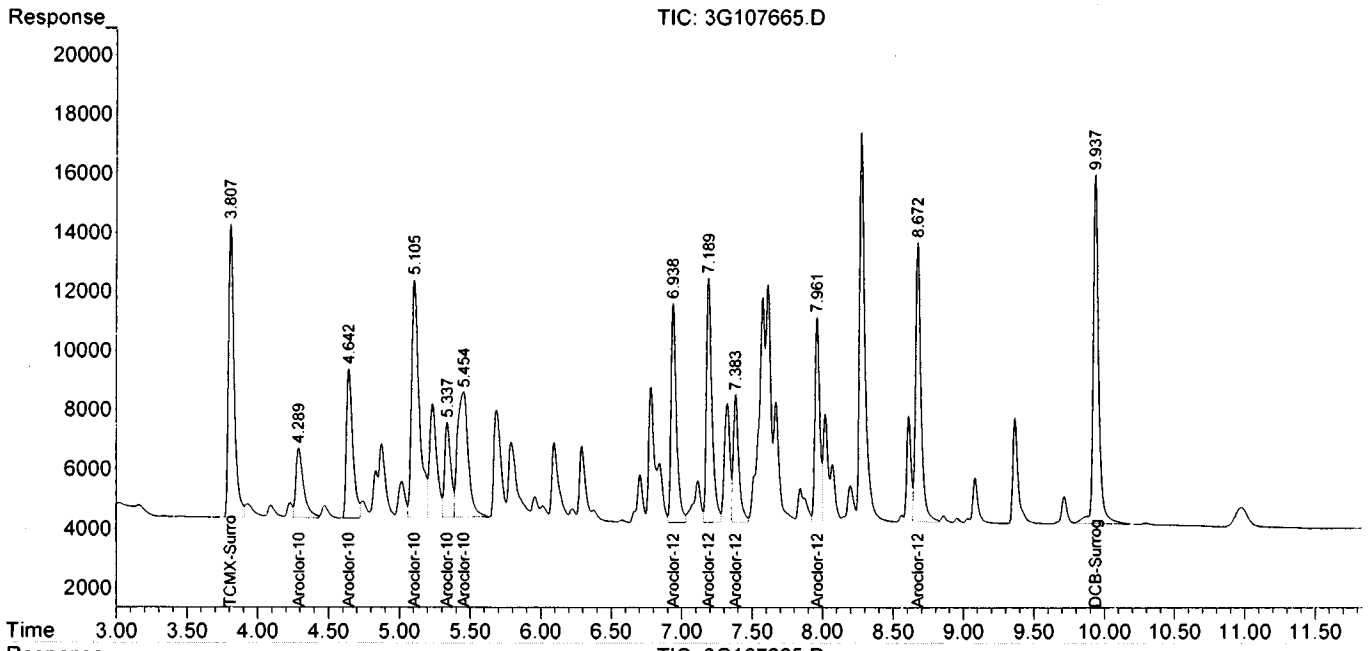
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.808	3.849	275905	532209	52.798	54.678
2)Aroclor-1016 {1}	4.290	4.441	88677	128746	543.166	531.482
3)Aroclor-1016 {2}	4.643	4.855	158168	265894	546.146	560.606
4)Aroclor-1016 {3}	5.106	5.236	305437	552192	533.045	554.926
5)Aroclor-1016 {4}	5.338	5.558	94824	236132	533.690	550.107
6)Aroclor-1016 {5}	5.454	5.926	223327	167580	540.635	558.120
7)Aroclor-1260 {1}	6.939	7.224	194948	354912	554.867	564.499
8)Aroclor-1260 {2}	7.190	7.307	225923	400252	550.262	559.283
9)Aroclor-1260 {3}	7.383	7.934	115988	203587	528.250	594.064
10)Aroclor-1260 {4}	7.962	8.291	157270	357504	529.888	568.905m
11)Aroclor-1260 {5}	8.673	8.986	250056	343864	518.135	583.644m
45)DCB-Surrogate	9.937	10.636	319116	644737	52.278	58.269

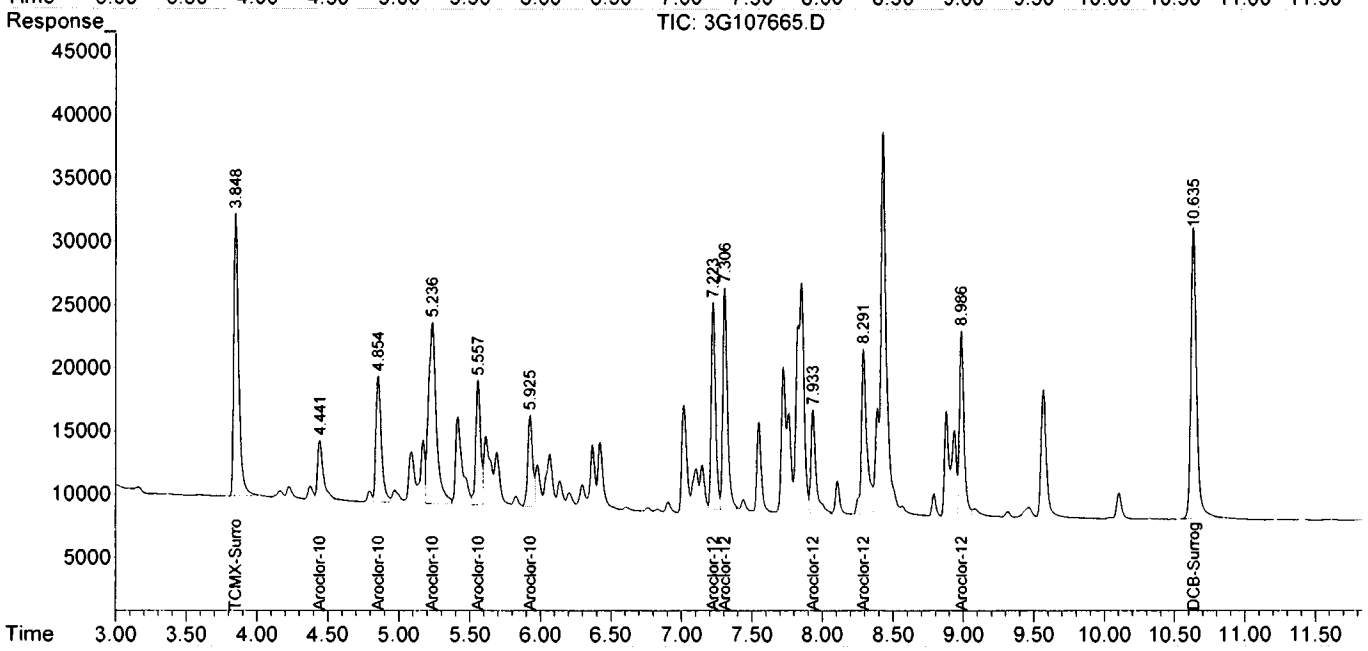
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\03-01-18\
Data File : 3G107665.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 1 Mar 2018 17:17
Operator : ZM/MLC/KD
Sample : CAL 1660@500PPB
Misc : S,PCB
ALS Vial : 100 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 01 18:51:13 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





GC PCB Data
Raw QC Data

Form1

ORGANICS PCB REPORT

Sample Number: WMB66107
Client Id:
Data File: 3G107628.D
Analysis Date: 02/28/18 19:20
Date Rec/Extracted: NA-02/28/18
Column: DB-17/1701P 30M 0.32mm ID 0.25um film

Method: EPA 8082A
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 5ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
12674-11-2	Aroclor-1016	0.25	U	11097-69-1	Aroclor-1254	0.25	U
11104-28-2	Aroclor-1221	0.25	U	11096-82-5	Aroclor-1260	0.25	U
11141-16-5	Aroclor-1232	0.25	U	37324-23-5	Aroclor-1262	0.25	U
53469-21-9	Aroclor-1242	0.25	U	11100-14-4	Aroclor-1268	0.25	U
12672-29-6	Aroclor-1248	0.25	U				

Worksheet #: 455644

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration used
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107628.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 19:20
Operator : ZM/MLC/KD
Sample : WMB66107
Misc : A,PCB
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 21:22:09 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

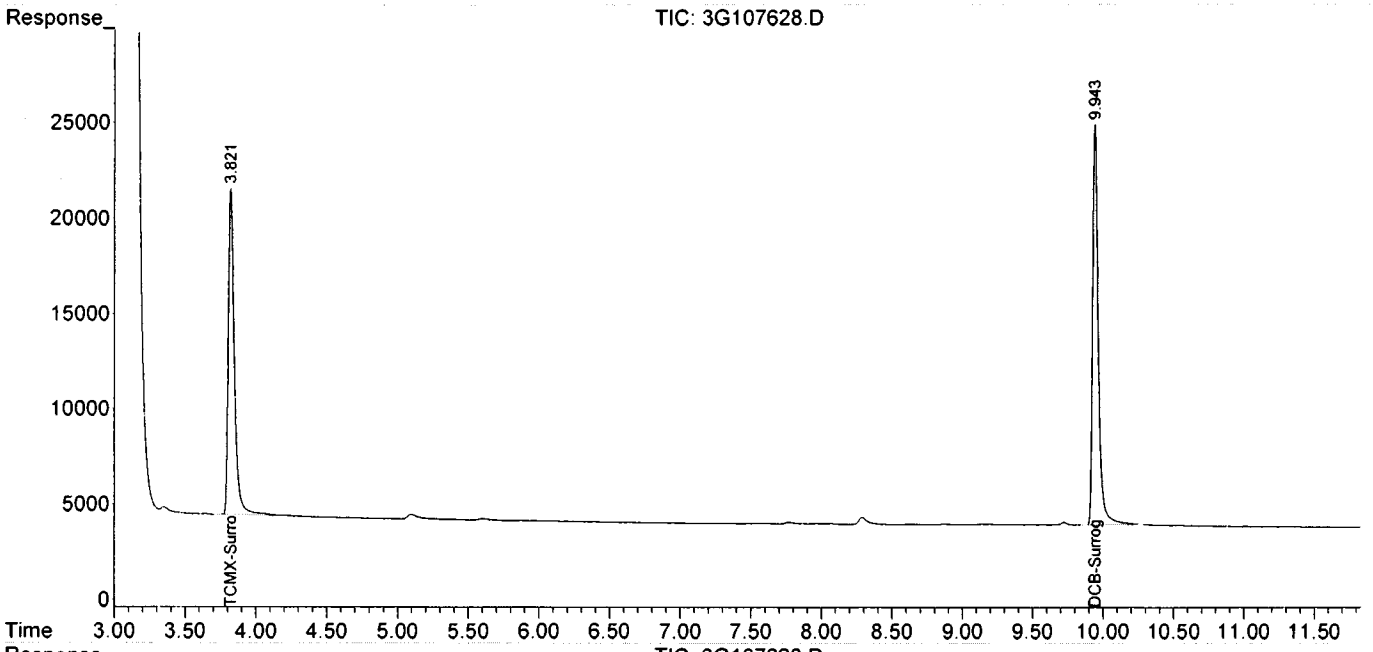
	Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
	Target Compounds						
1)	TCMX-Surrogate	3.822	3.861	517379	930998	99.007	95.648
45)	DCB-Surrogate	9.944	10.642	587333	1088024	96.218	99.419

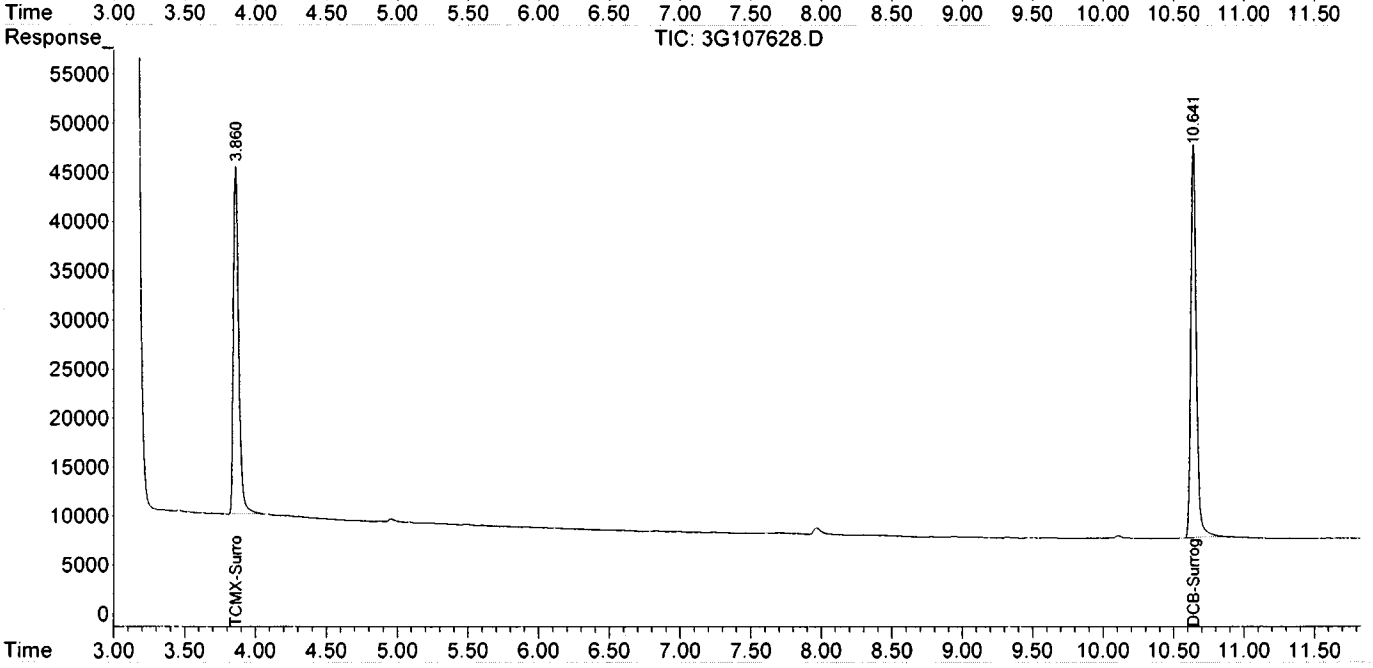
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107628.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 19:20
Operator : ZM/MLC/KD
Sample : WMB66107
Misc : A,PCB
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 21:22:09 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form3
Recovery Data Laboratory Limits
QC Batch: WMB66107

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G107629.D	WMB66107(MS)	2/28/2018 7:35:00 PM
Non Spike(If applicable):			
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	913.43	0	1000	91	60	130
Aroclor-1260 -Total	1	977.24	0	1000	98	60	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107629.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 19:35
Operator : ZM/MLC/KD
Sample : WMB66107(MS)
Misc : A,PCB
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 22:23:15 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

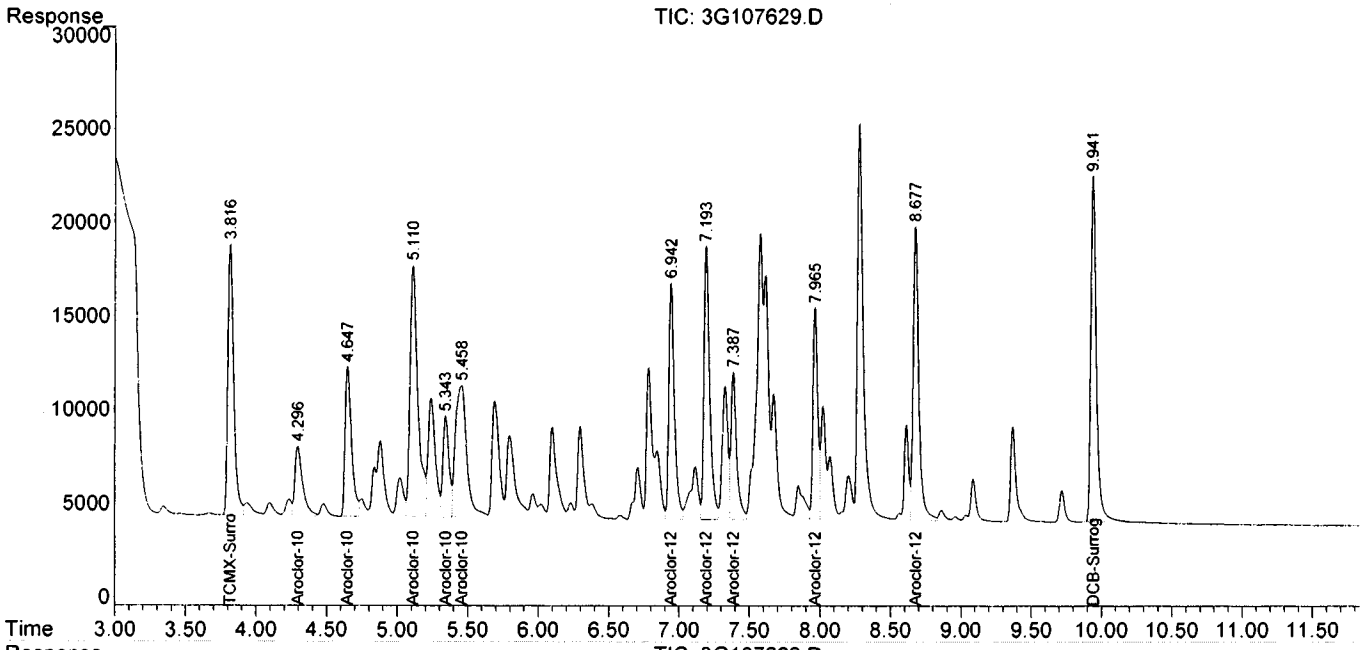
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.817	3.858	424856	793599	81.301	81.532
2)Aroclor-1016 {1}	4.296	4.447	142597	211285	873.442	887.949
3)Aroclor-1016 {2}	4.648	4.860	257424	422133	904.786	910.006
4)Aroclor-1016 {3}	5.111	5.241	517796	889290	918.004	911.075
5)Aroclor-1016 {4}	5.344	5.562	164090	388942	923.536	924.496
6)Aroclor-1016 {5}	5.458	5.929	391347	272764	947.381	924.267
7)Aroclor-1260 {1}	6.943	7.227	350375	643980	1018.113	1052.725
8)Aroclor-1260 {2}	7.194	7.311	413525	746232	1027.958	1071.206
9)Aroclor-1260 {3}	7.388	7.938	225343	357292	1026.292	1065.718
10)Aroclor-1260 {4}	7.967	8.294	269278	600409	907.275	967.080m
11)Aroclor-1260 {5}	8.678	8.989	437516	578437	906.567	987.620m
45)DCB-Surrogate	9.942	10.640	508415	953518	83.289	86.835

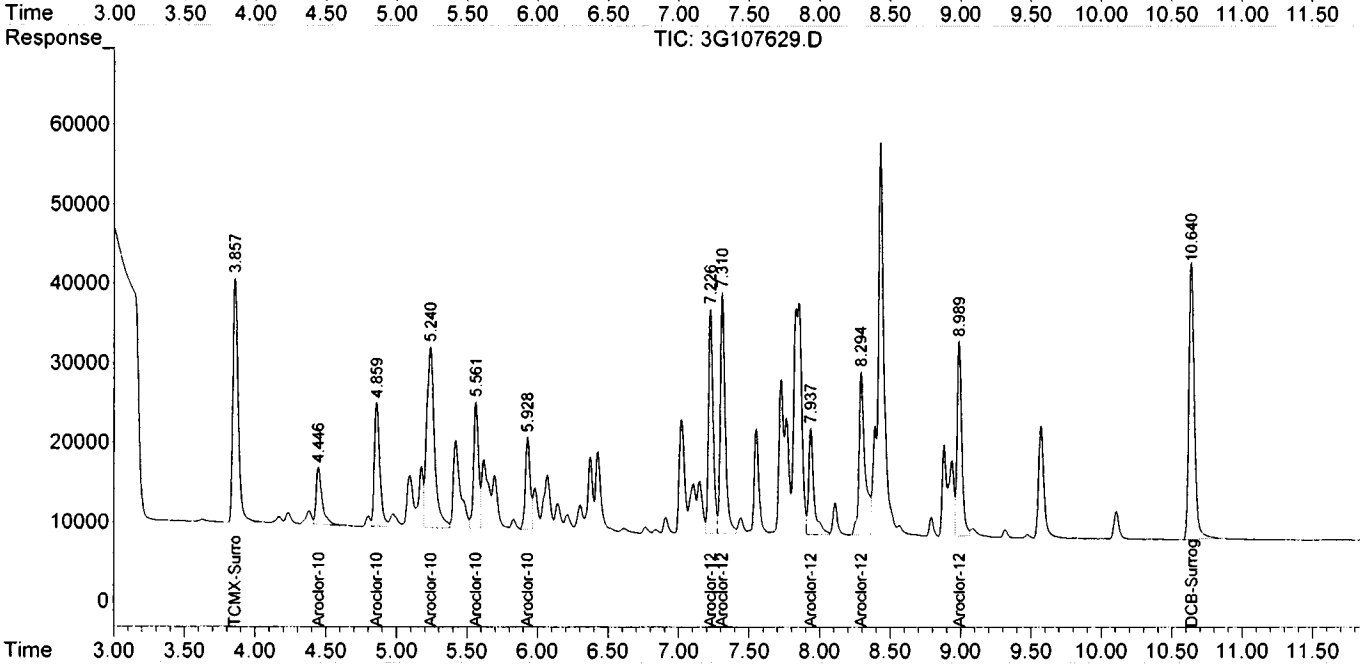
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107629.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 19:35
Operator : ZM/MLC/KD
Sample : WMB66107(MS)
Misc : A,PCB
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 22:23:15 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Form3
Recovery Data Laboratory Limits
QC Batch: WMB66107

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G107630.D	AD02764-004(MS:AD02764-00	2/28/2018 7:50:00 PM
Non Spike(If applicable):	3G107634.D	AD02764-003	2/28/2018 8:52:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	993.652	0	1000	99	60	130
Aroclor-1260 -Total	1	945.514	0	1000	95	60	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G107631.D	AD02764-005(MSD:AD02764-0	2/28/2018 8:06:00 PM
Non Spike(If applicable):	3G107634.D	AD02764-003	2/28/2018 8:52:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Aroclor-1016 -Total	1	975.44	0	1000	98	60	130
Aroclor-1260 -Total	1	941.032	0	1000	94	60	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: WMB66107

	Data File	Sample ID:	Analysis Date
Spike or Dup:	3G107631.D	AD02764-005(MSD:AD02764-0	2/28/2018 8:06:00 PM
Duplicate(If applicable):	3G107630.D	AD02764-004(MS:AD02764-00	2/28/2018 7:50:00 PM
Inst Blank(If applicable):			

Method: 8082 Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Aroclor-1016 -Total	1	975.44	993.652	1.8	40
Aroclor-1260 -Total	1	941.032	945.514	0.48	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107630.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 19:50
Operator : ZM/MLC/KD
Sample : AD02764-004(MS:AD02764-003)
Misc : A,PCB
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 22:23:40 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

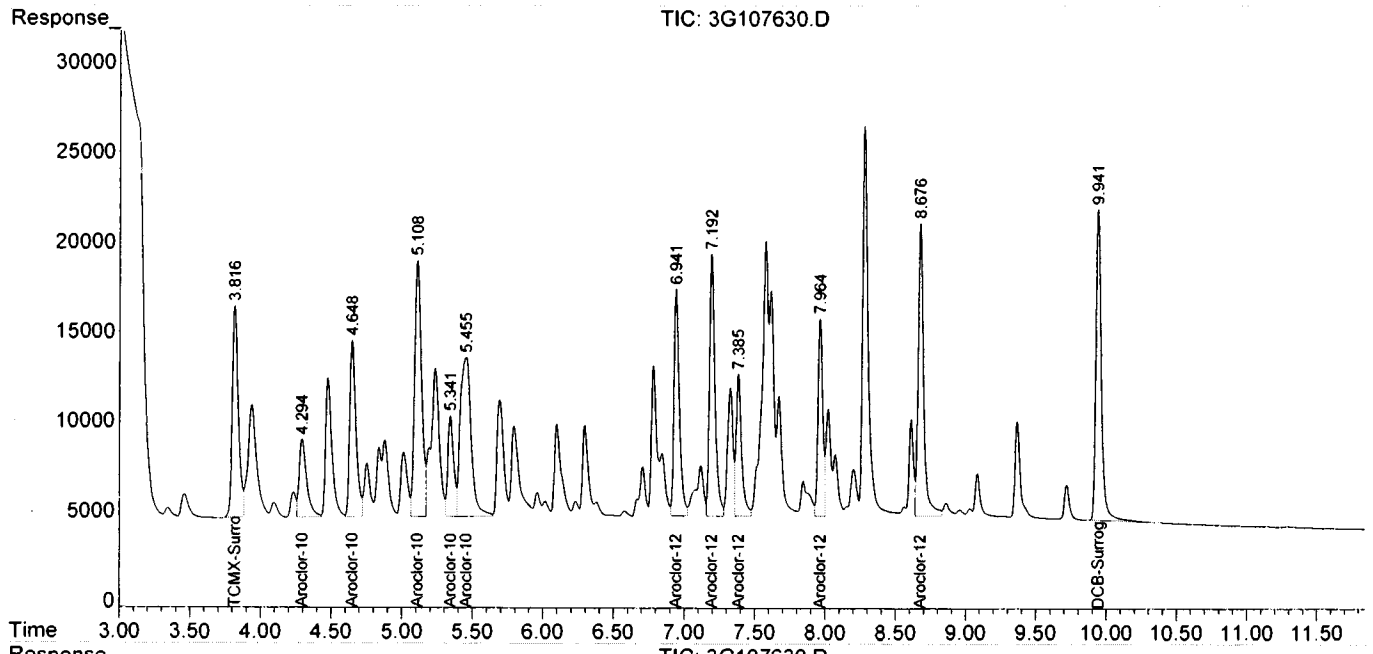
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2	
Target Compounds							
1)TCMX-Surrogate	3.817	3.858	350147	668653	67.005	68.696	
2)Aroclor-1016 {1}	4.295	4.446	159263	166090	975.525	691.128	#
3)Aroclor-1016 {2}	4.648	4.861	304372	493216	1079.191	1074.611	
4)Aroclor-1016 {3}	5.109	5.240	484523	833241	856.852	850.855	
5)Aroclor-1016 {4}	5.342	5.560	162042	508614	912.009	1229.261	#
6)Aroclor-1016 {5}	5.455	5.929	472849	259311	1144.683	876.694	
7)Aroclor-1260 {1}	6.943	7.227	335568	581847	973.110	945.380	
8)Aroclor-1260 {2}	7.193	7.310	398291	653501	988.400	931.133	
9)Aroclor-1260 {3}	7.386	7.937	214765	296537	978.112	876.701	
10)Aroclor-1260 {4}	7.965	8.294	256789	560057	865.195	900.244	
11)Aroclor-1260 {5}	8.677	8.987	445324	545097	922.746	929.907	m
45)DCB-Surrogate	9.942	10.639	472690	863895	77.437	78.498	

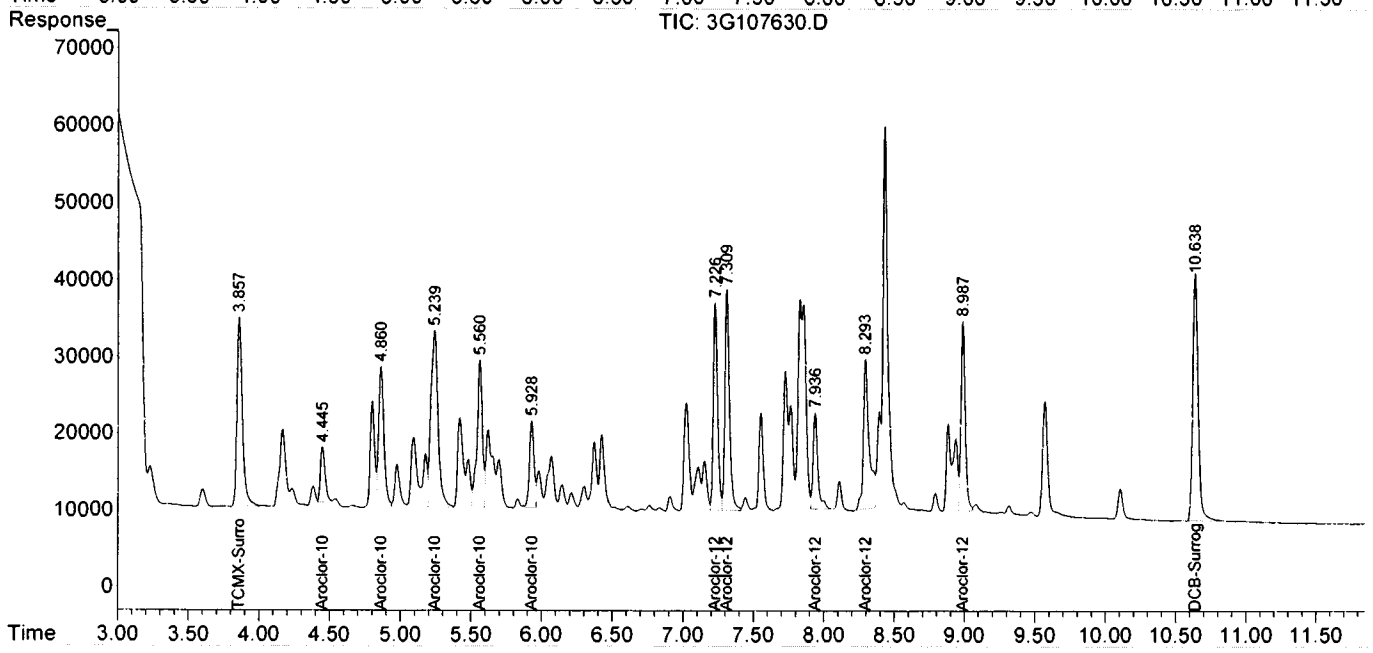
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107630.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 19:50
Operator : ZM/MLC/KD
Sample : AD02764-004(MS:AD02764-003)
Misc : A,PCB
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 22:23:40 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107631.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 20:06
Operator : ZM/MLC/KD
Sample : AD02764-005(MSD:AD02764-003)
Misc : A,PCB
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 22:25:38 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

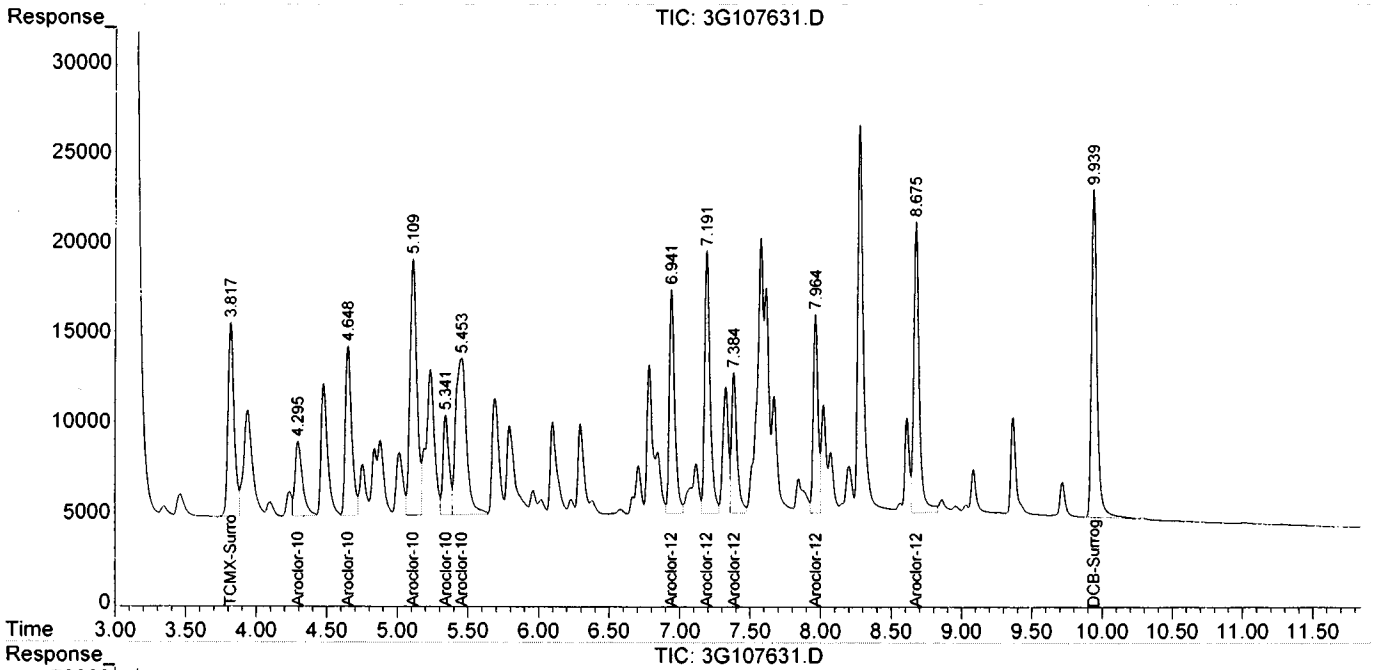
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.818	3.859	325385	609838	62.266	62.653
2)Aroclor-1016 {1}	4.295	4.447	152953	162719	936.875	676.607 #
3)Aroclor-1016 {2}	4.649	4.861	296514	478960	1049.775	1041.296
4)Aroclor-1016 {3}	5.109	5.239	487994	839375	863.216	857.425
5)Aroclor-1016 {4}	5.342	5.561	161431	503024	908.570	1214.780 #
6)Aroclor-1016 {5}	5.454	5.929	462141	267972	1118.762	907.295
7)Aroclor-1260 {1}	6.941	7.227	333902	578037	968.057	938.843
8)Aroclor-1260 {2}	7.192	7.309	397335	653084	985.924	930.509
9)Aroclor-1260 {3}	7.385	7.937	213633	309265	972.957	916.011
10)Aroclor-1260 {4}	7.964	8.293	255840	576167	861.998	926.894m
11)Aroclor-1260 {5}	8.676	8.988	442177	536409	916.225	914.883m
45)DCB-Surrogate	9.940	10.638	492537	917595	80.688	83.489

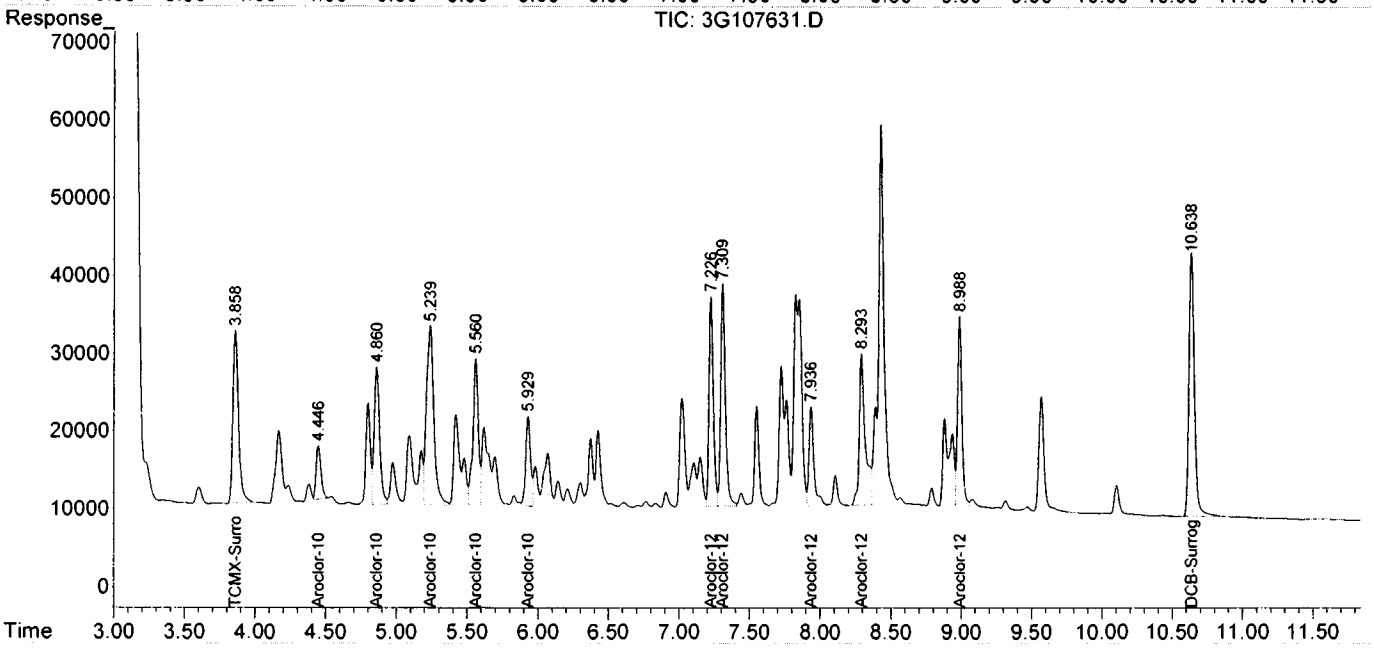
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107631.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 20:06
Operator : ZM/MLC/KD
Sample : AD02764-005(MSD:AD02764-003)
Misc : A,PCB
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 22:25:38 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107634.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 20:52
Operator : ZM/MLC/KD
Sample : AD02764-003
Misc : A,PCB
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 22:26:05 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32

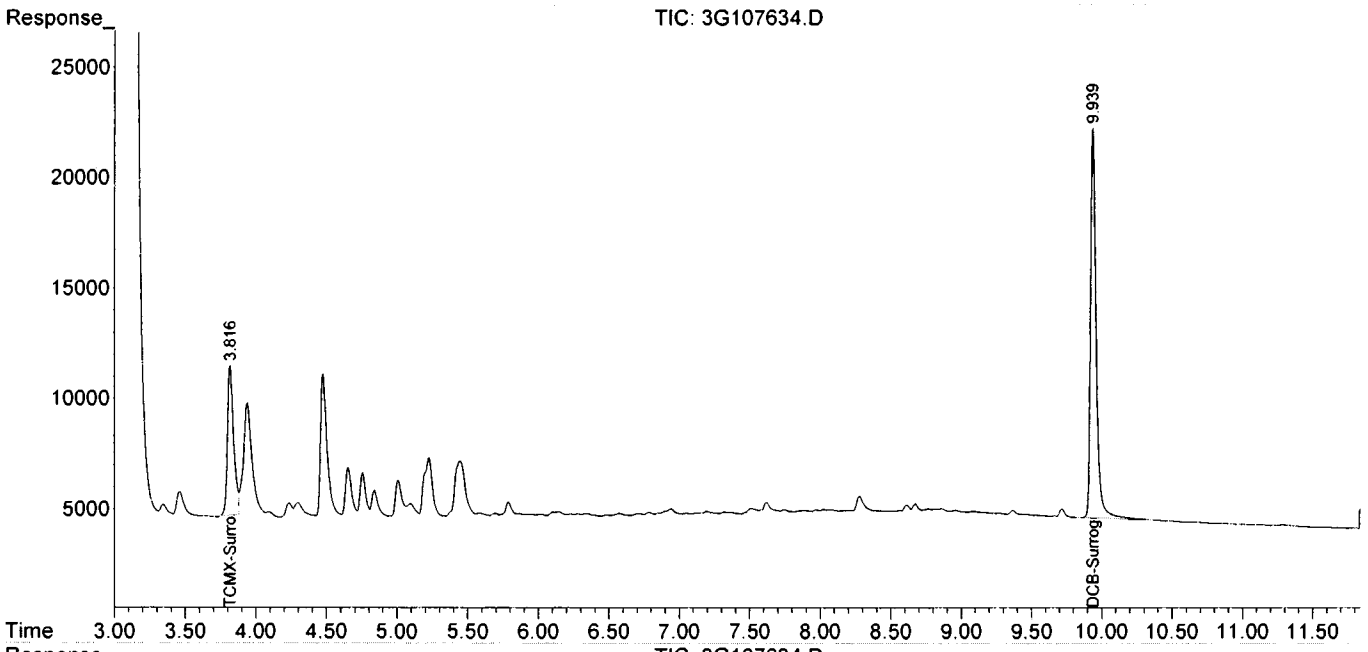
Compound	RT#1	RT#2	Resp#1	Resp#2	pg#1	pg#2
Target Compounds						
1)TCMX-Surrogate	3.817	3.859	202908	394389	38.829	40.518
45)DCB-Surrogate	9.940	10.639	489202	888409	80.142	80.774

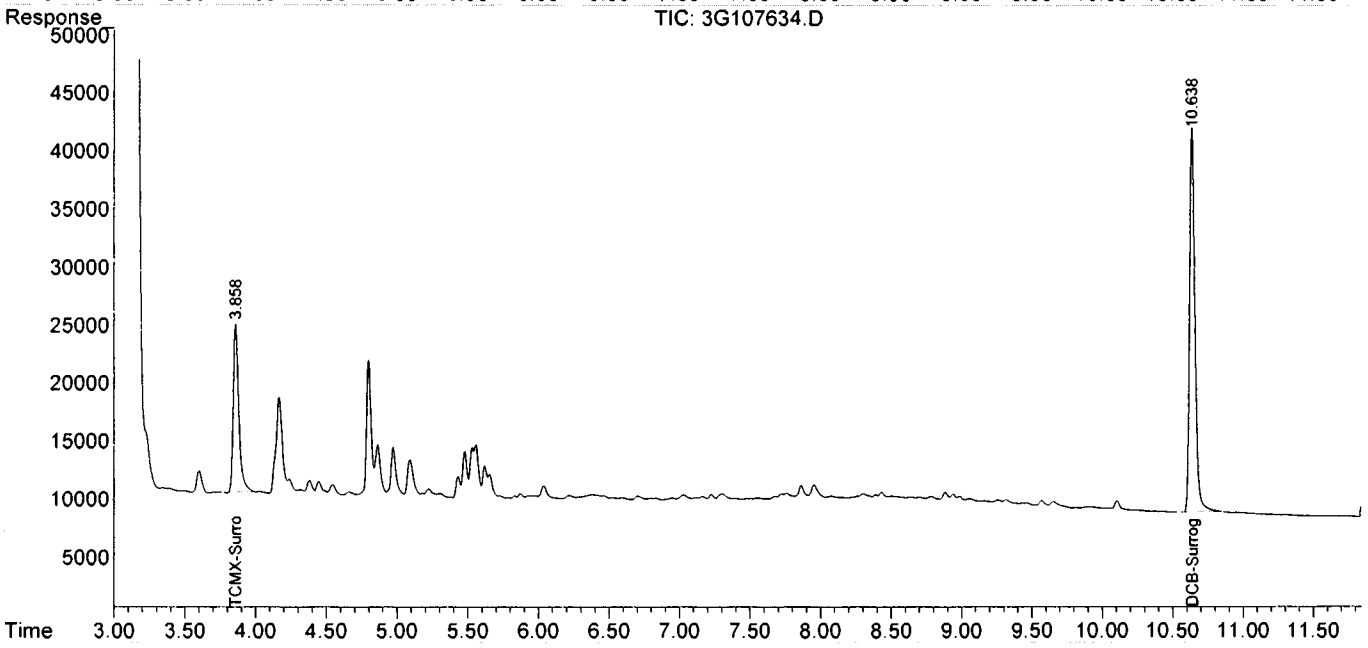
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : G:\Gcdata\2018\GC_3\Data\02-28-18\
Data File : 3G107634.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 28 Feb 2018 20:52
Operator : ZM/MLC/KD
Sample : AD02764-003
Misc : A,PCB
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 28 22:26:05 2018
Quant Method : G:\GCDATA\2018\GC_3\METHODQT\3G_C0205.M
Quant Title : @GC_3,ug,608,8082
QLast Update : Mon Feb 05 13:54:23 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul
Signal #1 Phase : db-1701P Signal #2 Phase: db-17
Signal #1 Info : .32 Signal #2 Info : .32





8022605 0383

GC PCB Data
Logbook Data

QC66106 QC66107

Hampton-Clarke

Method Blank No. WMB-_____
Blank Spike (WMBS): _____
Blank Spike (WMBS): _____
Start Ext Time: 10.29
End Ext. Time: _____
Recirculator: Start temp: 15.5
End temp: 14.7

Date: 2/28/18
Matrix Spike: 66106-PEST
Matrix Spike: 66107-PCB
Shaker Used: 11213
Condenser Used: 11215
Condenser Flow: 2500 CCM

Extraction: Pest (3510C)/ PCB (3510C) / Other(list):

Sample Number	Pest	PCB	Other	Initial Vol	Final Vol	Extracted By/ Comments	TCLP QC	Extraction Fluid
MB 66106/07	X	X		1000ML	5ML	LV	AD02551	EPIPV 273224 (2/23/18
MBS 66106/07	X	X		↓	↓	↓	-044	↓
MS 02764-004		X		980ML	↓	↓	↓	↓
MSD 02764-005		X		980ML	↓	↓	↓	↓
MS 02551-044	X			250ML	↓	↓	↓	↓
MSD 02551-044	X			↓	↓	↓	↓	↓
AD 02551-044	1			500ML	2.5ML	1/2 surr	1	1
AD 02552-036	2			↓	↓	↓	2	2
-057	3			↓	↓	↓	3	3
SPIPV 273224 (2/23/18	X			↓	↓	↓	X	SPIPV 274098 2/24/18
AD 02568-001	4			↓	↓	↓	4	1
-002	5			↓	↓	↓	5	2
AD 02569-018	6			↓	↓	↓	6	3
SPIPV 274098 (2/24/18	X			↓	↓	↓	X	↓
AD 02764-001		1		1000ML	5ML	↓	↓	↓
-002		2		950ML	↓	↓	↓	↓
-003		3		1000ML	↓	↓	↓	↓
-006		4		980ML	↓	↓	↓	↓
-007		5		1000ML	↓	↓	↓	↓
AD 02762-001	7	6		↓	↓	↓	↓	↓
AD 02771-002		7		960ML	↓	↓	↓	↓
AD 02799-001		8		1000ML	↓	↓	↓	↓
-002		9		↓	↓	↓	↓	↓
AD 02820-001		10		↓	↓	RDCK # 15	↓	↓
AD 02702-002	R			100ML	5ML	↓	↓	↓
EFI 273982 (2/28/	R			100ML	↓	↓	↓	↓
EFI 273982 (2/28/18	R			↓	↓	↓	↓	↓
AD 02702-002	R			↓	↓	↓	↓	↓

Cleanup: Acid ___ TBA ___ Copper ___ Florisil ___ Other ___

Spike Standard LV 02/28/2018

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	10	274099	Pest / PCB / Other
↓	100	~~263092~~	~~Pest~~ / PCB / Other
		~~263099~~	~~Pest~~ / PCB / Other
		212429	Pest / PCB / Other
			Pest / PCB / Other
			Pest / PCB / Other

Surrogate Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	10	270445	Pest / PCB / Other
			Pest / PCB / Other
			Pest / PCB / Other
			Pest / PCB / Other
			Pest / PCB / Other

Reagent Lots: MeCl2 11493 Acetone _____ Hexane 11475 Na2SO4 11486 Ether ____

MTBE _____ Copper Powder _____ Other _____

Relinquished By: LV Date: 2/28/18
Received By: MLC Date: 3/1/18

T:\QC\FORMS\LOGBOOK FORMS\extractions\PestPCB Aq Ext Log 2016.doc

RUN LOG

Instrument: GC_3 Year: 2018
Analyst: ZM/MLC/K

1-1-3G106704

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3G106704.	CAL 3268@500PPB		OK, V-268863	KD 02/05/18		Soil	1	1	608\808	02/05 11:09
3G106705.	CAL 1242@500PPB		OK, V-268865	KD 02/05/18		Soil	1	1	608\808	02/05 11:23
3G106706.	CAL 1248@500PPB		OK,V-272855	KD 02/05/18		Soil	1	1	608\808	02/05 11:38
3G106707.	CAL 2154@500PPB		OK, V-268869	KD 02/05/18		Soil	1	1	608\808	02/05 11:53
3G106708.	CAL 1262@500PPB		OK, V-268871	KD 02/05/18		Soil	1	1	608\808	02/05 12:08
3G106709.	CAL 1660@50PPB		OK, V-268878	KD 02/05/18		Soil	1	1	608\808	02/05 12:23
3G106710.	CAL 1660@200PPB		OK, V-268877	KD 02/05/18		Soil	1	1	608\808	02/05 12:38
3G106711.	CAL 1660@500PPB		OK, V-268876	KD 02/05/18		Soil	1	1	608\808	02/05 12:52
3G106712.	CAL 1660@1000PP		OK, V-268875	KD 02/05/18		Soil	1	1	608\808	02/05 13:07
3G106713.	CAL 1660@2000PP		OK, V-268874	KD 02/05/18		Soil	1	1	608\808	02/05 13:22
3G106714.	CAL 1660@4000PP		OK, V-268873	KD 02/05/18		Soil	1	1	608\808	02/05 13:37
3G106715.	ICV		OK, V-268879	KD 02/05/18		Soil	1	1	8082	02/05 13:52
3G106716.	PEST WS	S8Do	OK, V-268881	KD 02/05/18		Soil	1	1	8082	02/05 14:07
3G106717.	SMB64182		OK	KD 02/06/18		Soil	1	1	8082	02/05 17:25
3G106718.	SMB64182(MS)		OK SMB64182	KD 02/06/18		Soil	1	1	8082	02/05 17:40
3G106719.	CAL 1660@1000PP		OK	KD 02/06/18		Soil	0.5	1	608\808	02/05 17:55
3G106720.	AD02371-066(MS)		OK SMB64182	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/05 23:21
3G106721.	AD02371-066(MSD)		OK SMB64182	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/05 23:36
3G106722.	AD02371-066		OK SMB64182	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/05 23:51
3G106723.	AD02371-037		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 00:05
3G106724.	AD02371-039		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 00:20
3G106725.	AD02371-041		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 00:35
3G106726.	AD02371-042		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 00:50
3G106727.	AD02371-043		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 01:05
3G106728.	AD02371-044		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 01:19
3G106729.	AD02371-045		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 01:34
3G106730.	CAL 1660@500PPB		OK	KD 02/06/18		Soil	1	1	608\808	02/06 01:49
3G106731.	1000PPB		NOT USED	KD 02/06/18		Soil	0.5	1	8082	02/06 02:04
3G106732.	AD02371-046		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 02:19
3G106733.	AD02371-047		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 02:34
3G106734.	AD02371-048		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 02:49
3G106735.	AD02371-049		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 03:04
3G106736.	AD02371-050		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 03:18
3G106737.	AD02371-051		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 03:33
3G106738.	AD02371-052		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 03:48
3G106739.	AD02371-054		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 04:03
3G106740.	AD02371-055		OK	KD 02/06/18	PCB-8082	Soil	1	1	8082	02/06 04:18
3G106741.	1000PPB		NOT USED	KD 02/06/18		Soil	0.5	1	8082	02/06 04:33
3G106742.	CAL 1660@500PPB		OK	KD 02/06/18		Soil	1	1	608\808	02/06 04:48

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Eto	Tclp/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for enb
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Rn	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Endino Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: GC_3 Year: 2018
Analyst: ZM/MLC/K

1-1-3G107593

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3G107593.	CAL 1660@1000PP		OK, V-268875	KD 02/28/18		Soil	0.5	1	608\808	02/28 08:02
3G107594.	SMB66096		OK	KD 02/28/18		Soil	1	1	8082	02/28 08:44
3G107595.	SMB66096(MS)		OK SMB66096	KD 02/28/18		Soil	1	1	8082	02/28 08:59
3G107596.	AD02741-001(MS)		OK SMB66096	KD 02/28/18	PCB-8082	Soil	1	1	8082	02/28 09:13
3G107597.	AD02741-001(MSD)		OK SMB66096	KD 02/28/18	PCB-8082	Soil	1	1	8082	02/28 09:28
3G107598.	AD02741-001		OK SMB66096	KD 02/28/18	PCB-8082	Soil	1	1	8082	02/28 09:43
3G107599.	AD02741-003		OK	KD 02/28/18	PCB-8082	Soil	1	1	8082	02/28 09:58
3G107600.	AD02741-005		OK	KD 02/28/18	PCB-8082	Soil	1	1	8082	02/28 10:13
3G107601.	AD02772-005		OK	KD 02/28/18	PCB-8082	Soil	1	1	8082	02/28 10:28
3G107602.	AD02746-012		OK	KD 02/28/18	PCB-8082	Soil	1	1	8082	02/28 10:43
3G107603.	AD02746-010		OK	KD 02/28/18	PCB-8082	Soil	1	1	8082	02/28 10:58
3G107604.	AD02746-008		OK	KD 02/28/18	PCB-8082	Soil	1	1	8082	02/28 11:13
3G107605.	AD02746-006		OK	KD 02/28/18	PCB-8082	Soil	1	1	8082	02/28 11:28
3G107606.	CAL 1660@1000PP		OK	KD 02/28/18		Soil	0.5	1	608\808	02/28 11:43
3G107607.	SMB66098		OK	KD 02/28/18		Soil	1	1	8082	02/28 13:28
3G107608.	SMB66098(MS)		OK SMB66098	KD 02/28/18		Soil	1	1	8082	02/28 13:43
3G107609.	SMB66099		OK	KD 02/28/18		Soil	1	1	8082	02/28 13:58
3G107610.	SMB66099(MS)		OK SMB66099	KD 02/28/18		Soil	1	1	8082	02/28 14:13
3G107611.	AD02703-015(MS)		OK SMB66099	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 15:00
3G107612.	AD02703-015(MSD)		OK SMB66099	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 15:15
3G107613.	AD02703-015		OK SMB66099	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 15:30
3G107614.	AD02703-001		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 15:45
3G107615.	AD02703-002		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 16:00
3G107616.	AD02703-003		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 16:15
3G107617.	AD02703-004		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 16:31
3G107618.	AD02703-005		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 16:46
3G107619.	AD02703-006		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 17:00
3G107620.	AD02703-007		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 17:16
3G107621.	AD02703-008		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 17:31
3G107622.	AD02703-009		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 17:46
3G107623.	AD02703-010		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 18:01
3G107624.	AD02703-011		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 18:16
3G107625.	AD02703-012		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 18:32
3G107626.	AD02703-013		OK	MLC 03/01/18	PCB-8082	Soil	1	1	8082	02/28 18:46
3G107627.	CAL 1660@1000PP		OK	MLC 03/01/18		Soil	0.5	1	608\808	02/28 19:02
3G107628.	WMB66107		OK	MLC 03/01/18		Aqueous	1	1	608\808	02/28 19:20
3G107629.	WMB66107(MS)		OK WMB66107	MLC 03/01/18		Aqueous	1	1	608\808	02/28 19:35
3G107630.	AD02764-004(MS:A		OK WMB66107	MLC 03/01/18	PCB-8082	Aqueous	1	1	608\808	02/28 19:50
3G107631.	AD02764-005(MSD:		OK WMB66107	MLC 03/01/18	PCB-8082	Aqueous	1	1	608\808	02/28 20:06
3G107632.	AD02764-001		OK	MLC 03/01/18	PCB-8082	Aqueous	1	1	8082	02/28 20:21
3G107633.	AD02764-002		OK	MLC 03/01/18	PCB-8082	Aqueous	1	1	8082	02/28 20:37
3G107634.	AD02764-003		OK WMB66107	MLC 03/01/18	PCB-8082	Aqueous	1	1	608\808	02/28 20:52
3G107635.	AD02764-006		OK	MLC 03/01/18	PCB-8082	Aqueous	1	1	8082	02/28 21:07
3G107636.	AD02764-007		OK	MLC 03/01/18	PCB-8082	Aqueous	1	1	8082	02/28 21:22
3G107637.	AD02762-001		OK	MLC 03/01/18	PCB-8082	Aqueous	1	1	8082	02/28 21:38
3G107638.	AD02771-002		OK	MLC 03/01/18	PCB-8082	Aqueous	1	1	8082	02/28 21:53
3G107639.	AD02799-001		RR SULFUR	MLC 02/28/18	PCB-8082	Aqueous	1	1	8082	02/28 22:08
3G107640.	AD02799-002		RR SULFUR	MLC 02/28/18	PCB-8082	Aqueous	1	1	8082	02/28 22:23
3G107641.	CAL 1660@2000PP		OK, V-268874	MLC 03/01/18		Aqueous	0.25	1	608\808	02/28 22:39
3G107642.	2000PPB	Cme	NOT USED	MLC 03/01/18		Aqueous	0.25	1	608\808	02/28 23:30

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for enh
B8m	Blank 8000 series missing	Eto	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evrc	Eval Mix missing ddl or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rnd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rnd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Diff
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmt csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Endrin Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a samol	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: GC_3 Year: 2018
Analyst: ZM/MLC/K

1-1-3G107643

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
3G107643.	CAL 1660@500PPB		OK, V-268876	KD 03/01/18		Aqueous	1	1	608\808	03/01 07:36
3G107644.	AD02820-001		OK	KD 03/01/18	PCB-608	Aqueous	1	1	608	03/01 08:05
3G107645.	AD02799-001		OK	KD 03/01/18	PCB-8082	Aqueous	1	1	8082	03/01 08:20
3G107646.	AD02799-002		OK	KD 03/01/18	PCB-8082	Aqueous	1	1	8082	03/01 08:35
3G107647.	02702-02(T)(R)		TEST RUN	KD 03/02/18		Aqueous	1	1	608\808	03/01 10:13
3G107648.	02702-02(T)(RT)		TEST RUN	KD 03/02/18		Aqueous	1	1	608\808	03/01 10:28
3G107649.	02760-001(T)		TEST RUN	KD 03/02/18		Aqueous	1	1	608\808	03/01 11:10
3G107650.	SMB66113		OK	KD 03/01/18		Soil	1	1	8082	03/01 13:30
3G107651.	SMB66113(MS)		OK SMB66113	KD 03/01/18		Soil	1	1	8082	03/01 13:45
3G107652.	SMB66111		OK	KD 03/01/18		Soil	1	1	8082	03/01 14:00
3G107653.	SMB66111(MS)		OK SMB66111	KD 03/01/18		Soil	1	1	8082	03/01 14:14
3G107654.	AD02774-014		OK	KD 03/01/18,KD 03/02/18	PCB-8082	Soil	1	1	8082	03/01 14:29
3G107655.	AD02756-001(MS)		OK SMB66111	KD 03/02/18	PCB-8082	Soil	1	1	8082	03/01 14:46
3G107656.	AD02756-001(MSD)		OK SMB66111	KD 03/02/18	PCB-8082	Soil	1	1	8082	03/01 15:01
3G107657.	AD02756-001		OK SMB66111	KD 03/02/18	PCB-8082	Soil	1	1	8082	03/01 15:16
3G107658.	AD02756-002		OK	KD 03/02/18	PCB-8082	Soil	1	1	8082	03/01 15:31
3G107659.	AD02756-003		OK	KD 03/02/18	PCB-8082	Soil	1	1	8082	03/01 15:46
3G107660.	AD02756-004		OK	KD 03/02/18	PCB-8082	Soil	1	1	8082	03/01 16:01
3G107661.	AD02756-005	S8	RR	KD 03/02/18	PCB-8082	Soil	1	1	8082	03/01 16:16
3G107662.	AD02756-006		OK	KD 03/02/18	PCB-8082	Soil	1	1	8082	03/01 16:32
3G107663.	AD02756-007		OK	KD 03/02/18	PCB-8082	Soil	1	1	8082	03/01 16:46
3G107664.	AD02756-008	S8Tm	RR	KD 03/02/18	PCB-8082	Soil	1	1	8082	03/01 17:01
3G107665.	CAL 1660@500PPB		OK	KD 03/02/18		Soil	1	1	608\808	03/01 17:17
3G107666.	AD02798-002	S8	RR	KD 03/02/18	PCB-8082	Soil	1	1	8082	03/01 17:58
3G107667.	AD02798-004		OK	KD 03/02/18	PCB-8082	Soil	1	1	8082	03/01 18:13
3G107668.	AD02798-006		OK	KD 03/02/18	PCB-8082	Soil	1	1	8082	03/01 18:28
3G107669.	AD02798-008		OK	KD 03/02/18	PCB-8082	Soil	1	1	8082	03/01 18:43
3G107670.	AD02798-010		OK	KD 03/02/18	PCB-8082	Soil	1	1	8082	03/01 18:58
3G107671.	AD02798-012		OK	KD 03/02/18	PCB-8082	Soil	1	1	8082	03/01 19:14
3G107672.	AD02798-014		OK	KD 03/02/18	PCB-8082	Soil	1	1	8082	03/01 19:29
3G107673.	AD02798-016		OK	KD 03/02/18	PCB-8082	Soil	1	1	8082	03/01 19:44
3G107674.	CAL 1660@500PPB		OK	KD 03/02/18		Soil	1	1	608\808	03/01 19:59
3G107675.	1000PPB	Cme	NOT USED	KD 03/02/18		Soil	0.5	1	8082	03/01 20:15

Anc	Area Not Checked	Ea	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tclp/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for anh
B8m	Blank 8000 series missing	Etn	Tclp Extraction Performed Outside of Hold	EvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or endrin
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Rn	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmd.csv for init calibration chek rfs	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning. Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked (or sample/blank/eval	Ix	Initial Cal Files Not Updated Properly (or a samol	Sa6,Sb6	Acid and or BN Surrogate Out (600 series)

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-255229

Prepared By: Ceus, Mahalia | Department: Organics | ApprovedBy: akmal
Description: PEST/PCB SURR(GC) | BatchNumber: | ApproveDate: 05/02/17
Prep Date: 5/1/2017 | Concentration: 200 ppm | Checked: Yes
Expiration Date: 5/1/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
10855	Acetone	100 ml	neat neat	
10175	2,4,5,6-Tetrachloro-m-xylene	20 mg	neat neat	200 ppm
10174	Decachlorobiphenyl	20 mg	neat neat	200 ppm

Veritech Lot Number: V-255769

Prepared By: Ceus, Mahalia | Department: OrgPrep | ApprovedBy: akmal
Description: PEST MIX STOCK | BatchNumber: | ApproveDate: 05/11/17
Prep Date: 5/3/2017 | Concentration: 5000 ppm | Checked: Yes
Expiration Date: 5/3/2018 | Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9939	4,4'-DDT	.05 g	neat neat	5000 ppm
7907	4,4'-DDD	.05 g	neat neat	5000 ppm
7908	4,4'-DDE	.05 g	neat neat	5000 ppm
10843	n-hexane	10 ml	neat neat	

Veritech Lot Number: V-263091

Prepared By: Mian, Zanib | Department: OrgPrep | ApprovedBy: akmal
Description: PEST/PCB SURR(LAB) | BatchNumber: | ApproveDate: 09/13/17
Prep Date: 9/6/2017 | Concentration: 10 ppm | Checked: Yes
Expiration Date: 3/6/2018 | Final Volume: 500 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
v-255229	PEST/PCB SURR(GC)	25 ml	200 ppm	10 ppm
11139	Acetone	475 ml	neat neat	

Veritech Lot Number: V-268279

Prepared By: Ceus, Mahalia | Department: OrgPrep | ApprovedBy: jean
Description: PCB SPIKE | BatchNumber: | ApproveDate: 12/15/17
Prep Date: 11/30/2017 | Concentration: 100 ppm | Checked: Yes
Expiration Date: 5/30/2018 | Final Volume: 50 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11191	Aroclor 1016	5 ml	1000 ppm	100 ppm
11192	Aroclor 1260	5 ml	1000 ppm	100 ppm
11264	Acetone	40 ml	neat neat	

Veritech Lot Number: V-268862

Prepared By: Ceus, Mahalia | Department: OrgPrep | ApprovedBy: akmal
Description: 3268 inter | BatchNumber: | ApproveDate: 12/07/17
Prep Date: 12/1/2017 | Concentration: 100 ppm | Checked: Yes
Expiration Date: 5/1/2018 | Final Volume: 1 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9521	Aroclor 1232	100 ul	1000 ppm	100 ppm
10094	Aroclor 1268 STD.	100 ul	1000 ppm	100 ppm
v-255229	PEST/PCB SURR(GC)	50 ul	200 ppm	10 ppm
11269	n-hexane	750 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-268863

Prepared By: Ceus, Mahalia
Description: CAL 3268@500PPB
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-268862	3268 inter	50 ul	100 ppm	500 ppb
11269	n-hexane	9950 ul	neat neat	

Veritech Lot Number: V-268864

Prepared By: Ceus, Mahalia
Description: 1242 inter
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11303	Aroclor 1242	100 ul	1000 ppm	100 ppm
v-255229	PEST/PCB SURR(GC)	50 ul	200 ppm	10 ppm
11269	n-hexane	850 ul	neat neat	

Veritech Lot Number: V-268865

Prepared By: Ceus, Mahalia
Description: CAL 1242@500PPB
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-268864	1242 inter	50 ul	100 ppm	500 ppb
11269	n-hexane	9950 ul	neat neat	

Veritech Lot Number: V-268868

Prepared By: Ceus, Mahalia
Description: 2154 inter
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11250	Aroclor 1221	100 ul	1000 ppm	100 ppm
11302	Aroclor 1254	100 ul	1000 ppm	100 ppm
v-255229	PEST/PCB SURR(GC)	50 ul	200 ppm	10 ppm
11269	n-hexane	750 ul	neat neat	

Veritech Lot Number: V-268869

Prepared By: Ceus, Mahalia
Description: CAL 2154@500PPB
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-268868	2154 inter	50 ul	100 ppm	500 ppb
11269	n-hexane	9950 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-268870

Prepared By: Ceus, Mahalia
Description: 1262 inter
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
10634	Aroclor 1262	100 ul	1000 ppm	100 ppm
v-255229	PEST/PCB SURR(GC)	50 ul	200 ppm	10 ppm
11269	n-hexane	850 ul	neat neat	

Veritech Lot Number: V-268871

Prepared By: Ceus, Mahalia
Description: CAL 1262@500PPB
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-268870	1262 inter	50 ul	100 ppm	500 ppb
11269	n-hexane	9950 ul	neat neat	

Veritech Lot Number: V-268872

Prepared By: Ceus, Mahalia
Description: 1660 Intermediate
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 100 ppm
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11269	n-hexane	3750 ul	neat neat	
11249	Aroclor 1016	500 ul	1000 ppm	1000 ppm
11305	Aroclor 1260	500 ul	1000 ppm	1000 ppm
v-255229	PEST/PCB SURR(GC)	250 ul	200 ppm	10 ppm

Veritech Lot Number: V-268873

Prepared By: Ceus, Mahalia
Description: CAL 1660@4000PPB
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 4000 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11269	n-hexane	48000 ul	neat neat	
V-268872	1660 Intermediate	2000 ul	100 ppm	4000 ppb

Veritech Lot Number: V-268874

Prepared By: Ceus, Mahalia
Description: CAL 1660@2000PPB
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 2000 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11269	n-hexane	49000 ul	neat neat	
V-268872	1660 Intermediate	1000 ul	100 ppm	2000 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-268875

Prepared By: Ceus, Mahalia
Description: CAL 1660@1000PPB
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 1000 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11269	n-hexane	49500 ul	neat neat	
V-268872	1660 Intermediate	500 ul	100 ppm	1000 ppb

Veritech Lot Number: V-268876

Prepared By: Ceus, Mahalia
Description: CAL 1660@500PPB
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 500 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11269	n-hexane	49750 ul	neat neat	
V-268872	1660 Intermediate	250 ul	100 ppm	500 ppb

Veritech Lot Number: V-268877

Prepared By: Ceus, Mahalia
Description: CAL 1660@200PPB
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 200 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11269	n-hexane	9000 ul	neat neat	
V-268874	CAL 1660@2000PPB	1000 ul	2000 ppb	200 ppb

Veritech Lot Number: V-268878

Prepared By: Ceus, Mahalia
Description: CAL 1660@50PPB
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 50 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11269	n-hexane	9000 ul	neat neat	
V-268876	CAL 1660@500PPB	1000 ul	500 ppb	50 ppb

Veritech Lot Number: V-268879

Prepared By: Ceus, Mahalia
Description: ICV-PCB
Prep Date: 12/1/2017
Expiration Date: 3/6/2018
Department: OrgPrep
BatchNumber:
Concentration: 1000 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-268279	PCB SPIKE	100 ul	100 ppm	1000 ppb
11269	n-hexane	9800 ul	neat neat	
V-263091	PEST/PCB SURR(LAB)	100 ul	10 ppm	100 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-268880

Prepared By: Ceus, Mahalia
Description: PEST MIX INTERM
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 50 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11269	n-hexane	990 ul	neat neat	
V-255769	PEST MIX STOCK	10 ul	5000 ppm	50 ppm

Veritech Lot Number: V-268881

Prepared By: Ceus, Mahalia
Description: PEST MIX WS
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 100 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-268880	PEST MIX INTERM	20 ul	50 ppm	100 ppb
11269	n-hexane	9980 ul	neat neat	

Veritech Lot Number: V-270445

Prepared By: Mian, Zanib
Description: PEST/PCB SURR(LAB)
Prep Date: 12/22/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 10 ppm
Final Volume: 500 ml
ApprovedBy: akmal
ApproveDate: 12/29/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
v-255229	PEST/PCB SURR(GC)	25 ml	200 ppm	10 ppm
11330	Acetone	475 ml	neat neat	

Veritech Lot Number: V-272420

Prepared By: Ceus, Mahalia
Description: PCB SPIKE
Prep Date: 1/19/2018
Expiration Date: 6/19/2018
Department: OrgPrep
BatchNumber:
Concentration: 100 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 01/31/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11191	Aroclor 1016	5 ml	1000 ppm	100 ppm
11192	Aroclor 1260	5 ml	1000 ppm	100 ppm
11330	Acetone	40 ml	neat neat	

Veritech Lot Number: V-272854

Prepared By: Ceus, Mahalia
Description: 1248 inter
Prep Date: 2/5/2018
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 02/05/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11452	Aroclor 1248	100 ul	1000 ppm	100 ppm
v-255229	PEST/PCB SURR(GC)	50 ul	200 ppm	10 ppm
11392	n-hexane	850 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-272855

Prepared By:	Ceus, Mahalia	Department:	OrgPrep	ApprovedBy:	akmal
Description:	CAL 1248@500PPB	BatchNumber:		ApproveDate:	02/05/18
Prep Date:	2/5/2018	Concentration:	500 ppb	Checked:	Yes
Expiration Date:	5/1/2018	Final Volume:	10 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-272854	1248 inter	50 ul	100 ppm	500 ppb
11392	n-hexane	9950 ul	neat neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 7907

Description: 4,4'-DDD

ApprovedBy: akmal
ApproveDate: 05/22/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	N-10874-250MG	1520000	05/22/13	08/30/18	Hamid, Akmal	4	250m	neat	neat

Veritech Control/Receipt Number: 7908

Description: 4,4'-DDE

ApprovedBy: akmal
ApproveDate: 05/22/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	N-10875-100MG	1487800	05/22/13	11/30/18	Hamid, Akmal	5	100m	neat	neat

Veritech Control/Receipt Number: 9521

Description: Aroclor 1232

ApprovedBy: akmal
ApproveDate: 06/05/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supeco	44805	LC01902	06/05/15	07/31/18	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 9939

Description: 4,4'-DDT

ApprovedBy: akmal
ApproveDate: 01/27/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-10876-100MG	4679800	01/27/16	01/31/23	Hamid, Akmal	2	100m	neat	neat

Veritech Control/Receipt Number: 10094

Description: Aroclor 1268 STD.

ApprovedBy: akmal
ApproveDate: 03/29/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	32410	A0110266	03/28/16	07/31/21	Hamid, Akmal	1	1ml	1000	ppm

Veritech Control/Receipt Number: 10174

Description: Decachlorobiphenyl

ApprovedBy: akmal
ApproveDate: 04/21/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44-2537	LC13395V	04/21/16	05/31/18	Hamid, Akmal	2	100m	neat	neat

Veritech Control/Receipt Number: 10175

Description: 2,4,5,6-Tetrachloro-m-xylene

ApprovedBy: akmal
ApproveDate: 04/21/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44-2298	LC17509V	04/21/16	11/30/18	Hamid, Akmal	1	1000	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 10634

Description: Aroclor 1262

ApprovedBy: akmal
ApproveDate: 12/30/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44810	XA21355V	12/29/16	06/30/19	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 10843

Description: n-hexane

ApprovedBy: akmal
ApproveDate: 03/21/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
EMD	1.04371.4000	I867071	03/21/17	12/31/19	Lopez, Jose	24	4L	neat	neat

Veritech Control/Receipt Number: 10855

Description: Acetone

ApprovedBy: Jean
ApproveDate: 03/31/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	164215	03/28/17	01/16/20	Lopez, Jose	12	4L	neat	neat

Veritech Control/Receipt Number: 11139

Description: Acetone

ApprovedBy: akmal
ApproveDate: 08/30/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	170015	08/29/17	01/30/20	Lopez, Jose	16	4L	neat	neat

Veritech Control/Receipt Number: 11191

Description: Aroclor 1016

ApprovedBy: akmal
ApproveDate: 09/28/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	C-216S-H-10X	216011018	09/27/17	01/04/26	Revolus, Jean	10	1ml	1000	PPM

Veritech Control/Receipt Number: 11192

Description: Aroclor 1260

ApprovedBy: akmal
ApproveDate: 09/28/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	C-260S-H-10X	216111142	09/27/17	11/10/26	Revolus, Jean	10	1ml	1000	PPM

Veritech Control/Receipt Number: 11249

Description: Aroclor 1016

ApprovedBy: akmal
ApproveDate: 10/27/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	48097	XA23753V	10/27/17	11/30/19	Hamid, Akmal	1	1ML	1000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11250

Description: Aroclor 1221

ApprovedBy: akmal
ApproveDate: 10/27/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	48098	XA25689V	10/27/17	04/30/20	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 11264

Description: Acetone

ApprovedBy: akmal
ApproveDate: 11/08/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	176288	11/07/17	05/08/20	Lopez, Jose	32	4L	neat	neat

Veritech Control/Receipt Number: 11269

Description: n-hexane

ApprovedBy: akmal
ApproveDate: 11/15/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
EMD	1.04371.4000	I868471	11/08/17	12/31/19	Lopez, Jose	32	4L	neat	neat

Veritech Control/Receipt Number: 11302

Description: Aroclor 1254

ApprovedBy: akmal
ApproveDate: 11/30/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44808	XA26287V	11/30/17	04/30/20	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 11303

Description: Aroclor 1242

ApprovedBy: akmal
ApproveDate: 11/30/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44806	XA26286V	11/30/17	04/30/20	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 11305

Description: Aroclor 1260

ApprovedBy: akmal
ApproveDate: 12/01/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44809	XA25133V	12/01/17	02/28/20	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 11330

Description: Acetone

ApprovedBy: akmal
ApproveDate: 12/18/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	176288	12/14/17	05/08/20	Lopez, Jose	48	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11392

Description
n-hexane

ApprovedBy: akmal
ApproveDate: 01/15/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
EMD	1.04371.4000	I868471	01/12/18	12/31/19	Lopez, Jose	23	4L	neat	neat

Veritech Control/Receipt Number: 11452

Description
Aroclor 1248

ApprovedBy: akmal
ApproveDate: 02/02/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44807	LRAB7117	02/02/18	12/31/20	Hamid, Akmal	1	1ML	1000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11475

Description
Hexanes

ApprovedBy: akmal
ApproveDate: 02/08/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	H300-4	178202	02/06/18	12/31/22	Lopez, Jose	16	4L	neat	neat

Veritech Control/Receipt Number: 11486

Description
sodium sulfate

ApprovedBy: akmal
ApproveDate: 02/12/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
seidler	SC-3375-1C	725103	02/12/18	02/12/22	Burwell, John	4	100 L	neat	neat

Veritech Control/Receipt Number: 11493

Description
Methylene Chloride

ApprovedBy: akmal
ApproveDate: 02/16/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9264-03	176216	02/16/18	09/06/18	Lopez, Jose	52	4L	neat	neat

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-255229

Prepared By: Ceus, Mahalia | Department: Organics | ApprovedBy: akmal
Description: PEST/PCB SURR(GC) | BatchNumber: | ApproveDate: 05/02/17
Prep Date: 5/1/2017 | Concentration: 200 ppm | Checked: Yes
Expiration Date: 5/1/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
10855	Acetone	100 ml	neat neat	
10175	2,4,5,6-Tetrachloro-m-xylene	20 mg	neat neat	200 ppm
10174	Decachlorobiphenyl	20 mg	neat neat	200 ppm

Veritech Lot Number: V-255769

Prepared By: Ceus, Mahalia | Department: OrgPrep | ApprovedBy: akmal
Description: PEST MIX STOCK | BatchNumber: | ApproveDate: 05/11/17
Prep Date: 5/3/2017 | Concentration: 5000 ppm | Checked: Yes
Expiration Date: 5/3/2018 | Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9939	4,4'-DDT	.05 g	neat neat	5000 ppm
7907	4,4'-DDD	.05 g	neat neat	5000 ppm
7908	4,4'-DDE	.05 g	neat neat	5000 ppm
10843	n-hexane	10 ml	neat neat	

Veritech Lot Number: V-263091

Prepared By: Mian, Zanib | Department: OrgPrep | ApprovedBy: akmal
Description: PEST/PCB SURR(LAB) | BatchNumber: | ApproveDate: 09/13/17
Prep Date: 9/6/2017 | Concentration: 10 ppm | Checked: Yes
Expiration Date: 3/6/2018 | Final Volume: 500 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
v-255229	PEST/PCB SURR(GC)	25 ml	200 ppm	10 ppm
11139	Acetone	475 ml	neat neat	

Veritech Lot Number: V-268279

Prepared By: Ceus, Mahalia | Department: OrgPrep | ApprovedBy: jean
Description: PCB SPIKE | BatchNumber: | ApproveDate: 12/15/17
Prep Date: 11/30/2017 | Concentration: 100 ppm | Checked: Yes
Expiration Date: 5/30/2018 | Final Volume: 50 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11191	Aroclor 1016	5 ml	1000 ppm	100 ppm
11192	Aroclor 1260	5 ml	1000 ppm	100 ppm
11264	Acetone	40 ml	neat neat	

Veritech Lot Number: V-268862

Prepared By: Ceus, Mahalia | Department: OrgPrep | ApprovedBy: akmal
Description: 3268 inter | BatchNumber: | ApproveDate: 12/07/17
Prep Date: 12/1/2017 | Concentration: 100 ppm | Checked: Yes
Expiration Date: 5/1/2018 | Final Volume: 1 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
9521	Aroclor 1232	100 ul	1000 ppm	100 ppm
10094	Aroclor 1268 STD.	100 ul	1000 ppm	100 ppm
v-255229	PEST/PCB SURR(GC)	50 ul	200 ppm	10 ppm
11269	n-hexane	750 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-268863

Prepared By: Ceus, Mahalia
Description: CAL 3268@500PPB
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-268862	3268 inter	50 ul	100 ppm	500 ppb
11269	n-hexane	9950 ul	neat neat	

Veritech Lot Number: V-268864

Prepared By: Ceus, Mahalia
Description: 1242 inter
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11303	Aroclor 1242	100 ul	1000 ppm	100 ppm
v-255229	PEST/PCB SURR(GC)	50 ul	200 ppm	10 ppm
11269	n-hexane	850 ul	neat neat	

Veritech Lot Number: V-268865

Prepared By: Ceus, Mahalia
Description: CAL 1242@500PPB
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-268864	1242 inter	50 ul	100 ppm	500 ppb
11269	n-hexane	9950 ul	neat neat	

Veritech Lot Number: V-268868

Prepared By: Ceus, Mahalia
Description: 2154 inter
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11250	Aroclor 1221	100 ul	1000 ppm	100 ppm
11302	Aroclor 1254	100 ul	1000 ppm	100 ppm
v-255229	PEST/PCB SURR(GC)	50 ul	200 ppm	10 ppm
11269	n-hexane	750 ul	neat neat	

Veritech Lot Number: V-268869

Prepared By: Ceus, Mahalia
Description: CAL 2154@500PPB
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-268868	2154 inter	50 ul	100 ppm	500 ppb
11269	n-hexane	9950 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-268870

Prepared By: Ceus, Mahalia
Description: 1262 inter
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
10634	Aroclor 1262	100 ul	1000 ppm	100 ppm
v-255229	PEST/PCB SURR(GC)	50 ul	200 ppm	10 ppm
11269	n-hexane	850 ul	neat neat	

Veritech Lot Number: V-268871

Prepared By: Ceus, Mahalia
Description: CAL 1262@500PPB
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 500 ppb
Final Volume: 10 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-268870	1262 inter	50 ul	100 ppm	500 ppb
11269	n-hexane	9950 ul	neat neat	

Veritech Lot Number: V-268872

Prepared By: Ceus, Mahalia
Description: 1660 Intermediate
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 100 ppm
Final Volume: 5 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11269	n-hexane	3750 ul	neat neat	
11249	Aroclor 1016	500 ul	1000 ppm	1000 ppm
11305	Aroclor 1260	500 ul	1000 ppm	1000 ppm
v-255229	PEST/PCB SURR(GC)	250 ul	200 ppm	10 ppm

Veritech Lot Number: V-268873

Prepared By: Ceus, Mahalia
Description: CAL 1660@4000PPB
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 4000 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11269	n-hexane	48000 ul	neat neat	
V-268872	1660 Intermediate	2000 ul	100 ppm	4000 ppb

Veritech Lot Number: V-268874

Prepared By: Ceus, Mahalia
Description: CAL 1660@2000PPB
Prep Date: 12/1/2017
Expiration Date: 5/1/2018
Department: OrgPrep
BatchNumber:
Concentration: 2000 ppb
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 12/07/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11269	n-hexane	49000 ul	neat neat	
V-268872	1660 Intermediate	1000 ul	100 ppm	2000 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-268875

Prepared By: Ceus, Mahalia | Department: OrgPrep | ApprovedBy: akmal
Description: CAL 1660@1000PPB | BatchNumber: | ApproveDate: 12/07/17
Prep Date: 12/1/2017 | Concentration: 1000 ppb | Checked: Yes
Expiration Date: 5/1/2018 | Final Volume: 50 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11269	n-hexane	49500 ul	neat neat	
V-268872	1660 Intermediate	500 ul	100 ppm	1000 ppb

Veritech Lot Number: V-268876

Prepared By: Ceus, Mahalia | Department: OrgPrep | ApprovedBy: akmal
Description: CAL 1660@500PPB | BatchNumber: | ApproveDate: 12/07/17
Prep Date: 12/1/2017 | Concentration: 500 ppb | Checked: Yes
Expiration Date: 5/1/2018 | Final Volume: 50 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11269	n-hexane	49750 ul	neat neat	
V-268872	1660 Intermediate	250 ul	100 ppm	500 ppb

Veritech Lot Number: V-268877

Prepared By: Ceus, Mahalia | Department: OrgPrep | ApprovedBy: akmal
Description: CAL 1660@200PPB | BatchNumber: | ApproveDate: 12/07/17
Prep Date: 12/1/2017 | Concentration: 200 ppb | Checked: Yes
Expiration Date: 5/1/2018 | Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11269	n-hexane	9000 ul	neat neat	
V-268874	CAL 1660@2000PPB	1000 ul	2000 ppb	200 ppb

Veritech Lot Number: V-268878

Prepared By: Ceus, Mahalia | Department: OrgPrep | ApprovedBy: akmal
Description: CAL 1660@50PPB | BatchNumber: | ApproveDate: 12/07/17
Prep Date: 12/1/2017 | Concentration: 50 ppb | Checked: Yes
Expiration Date: 5/1/2018 | Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11269	n-hexane	9000 ul	neat neat	
V-268876	CAL 1660@500PPB	1000 ul	500 ppb	50 ppb

Veritech Lot Number: V-268879

Prepared By: Ceus, Mahalia | Department: OrgPrep | ApprovedBy: akmal
Description: ICV-PCB | BatchNumber: | ApproveDate: 12/07/17
Prep Date: 12/1/2017 | Concentration: 1000 ppb | Checked: Yes
Expiration Date: 3/6/2018 | Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-268279	PCB SPIKE	100 ul	100 ppm	1000 ppb
11269	n-hexane	9800 ul	neat neat	
V-263091	PEST/PCB SURR(LAB)	100 ul	10 ppm	100 ppb

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-268880

Prepared By: Ceus, Mahalia | Department: OrgPrep | ApprovedBy: akmal
Description: PEST MIX INTERM | BatchNumber: | ApproveDate: 12/07/17
Prep Date: 12/1/2017 | Concentration: 50 ppm | Checked: Yes
Expiration Date: 5/1/2018 | Final Volume: 1 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11269	n-hexane	990 ul	neat neat	
V-255769	PEST MIX STOCK	10 ul	5000 ppm	50 ppm

Veritech Lot Number: V-268881

Prepared By: Ceus, Mahalia | Department: OrgPrep | ApprovedBy: akmal
Description: PEST MIX WS | BatchNumber: | ApproveDate: 12/07/17
Prep Date: 12/1/2017 | Concentration: 100 ppb | Checked: Yes
Expiration Date: 5/1/2018 | Final Volume: 10 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-268880	PEST MIX INTERM	20 ul	50 ppm	100 ppb
11269	n-hexane	9980 ul	neat neat	

Veritech Lot Number: V-270445

Prepared By: Mian, Zanib | Department: OrgPrep | ApprovedBy: akmal
Description: PEST/PCB SURR(LAB) | BatchNumber: | ApproveDate: 12/29/17
Prep Date: 12/22/2017 | Concentration: 10 ppm | Checked: Yes
Expiration Date: 5/1/2018 | Final Volume: 500 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
v-255229	PEST/PCB SURR(GC)	25 ml	200 ppm	10 ppm
11330	Acetone	475 ml	neat neat	

Veritech Lot Number: V-272420

Prepared By: Ceus, Mahalia | Department: OrgPrep | ApprovedBy: akmal
Description: PCB SPIKE | BatchNumber: | ApproveDate: 01/31/18
Prep Date: 1/19/2018 | Concentration: 100 ppm | Checked: Yes
Expiration Date: 6/19/2018 | Final Volume: 50 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11191	Aroclor 1016	5 ml	1000 ppm	100 ppm
11192	Aroclor 1260	5 ml	1000 ppm	100 ppm
11330	Acetone	40 ml	neat neat	

Veritech Lot Number: V-272854

Prepared By: Ceus, Mahalia | Department: OrgPrep | ApprovedBy: akmal
Description: 1248 inter | BatchNumber: | ApproveDate: 02/05/18
Prep Date: 2/5/2018 | Concentration: 100 ppm | Checked: Yes
Expiration Date: 5/1/2018 | Final Volume: 1 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11452	Aroclor 1248	100 ul	1000 ppm	100 ppm
v-255229	PEST/PCB SURR(GC)	50 ul	200 ppm	10 ppm
11392	n-hexane	850 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-272855

Prepared By:	Ceus, Mahalia	Department:	OrgPrep	ApprovedBy:	akmal
Description:	CAL 1248@500PPB	BatchNumber:		ApproveDate:	02/05/18
Prep Date:	2/5/2018	Concentration:	500 ppb	Checked:	Yes
Expiration Date:	5/1/2018	Final Volume:	10 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-272854	1248 inter	50 ul	100 ppm	500 ppb
11392	n-hexane	9950 ul	neat neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 7907

Description: 4,4'-DDD

ApprovedBy: akmal
ApproveDate: 05/22/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	N-10874-250MG	1520000	05/22/13	08/30/18	Hamid, Akmal	4	250m	neat	neat

Veritech Control/Receipt Number: 7908

Description: 4,4'-DDE

ApprovedBy: akmal
ApproveDate: 05/22/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ChemService	N-10875-100MG	1487800	05/22/13	11/30/18	Hamid, Akmal	5	100m	neat	neat

Veritech Control/Receipt Number: 9521

Description: Aroclor 1232

ApprovedBy: akmal
ApproveDate: 06/05/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supeco	44805	LC01902	06/05/15	07/31/18	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 9939

Description: 4,4'-DDT

ApprovedBy: akmal
ApproveDate: 01/27/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Chem Service	N-10876-100MG	4679800	01/27/16	01/31/23	Hamid, Akmal	2	100m	neat	neat

Veritech Control/Receipt Number: 10094

Description: Aroclor 1268 STD.

ApprovedBy: akmal
ApproveDate: 03/29/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Restek	32410	A0110266	03/28/16	07/31/21	Hamid, Akmal	1	1ml	1000	ppm

Veritech Control/Receipt Number: 10174

Description: Decachlorobiphenyl

ApprovedBy: akmal
ApproveDate: 04/21/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44-2537	LC13395V	04/21/16	05/31/18	Hamid, Akmal	2	100m	neat	neat

Veritech Control/Receipt Number: 10175

Description: 2,4,5,6-Tetrachloro-m-xylene

ApprovedBy: akmal
ApproveDate: 04/21/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44-2298	LC17509V	04/21/16	11/30/18	Hamid, Akmal	1	1000	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 10634

Description: Aroclor 1262

ApprovedBy: akmal
ApproveDate: 12/30/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44810	XA21355V	12/29/16	06/30/19	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 10843

Description: n-hexane

ApprovedBy: akmal
ApproveDate: 03/21/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
EMD	1.04371.4000	I867071	03/21/17	12/31/19	Lopez, Jose	24	4L	neat	neat

Veritech Control/Receipt Number: 10855

Description: Acetone

ApprovedBy: Jean
ApproveDate: 03/31/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	164215	03/28/17	01/16/20	Lopez, Jose	12	4L	neat	neat

Veritech Control/Receipt Number: 11139

Description: Acetone

ApprovedBy: akmal
ApproveDate: 08/30/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	170015	08/29/17	01/30/20	Lopez, Jose	16	4L	neat	neat

Veritech Control/Receipt Number: 11191

Description: Aroclor 1016

ApprovedBy: akmal
ApproveDate: 09/28/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	C-216S-H-10X	216011018	09/27/17	01/04/26	Revolus, Jean	10	1ml	1000	PPM

Veritech Control/Receipt Number: 11192

Description: Aroclor 1260

ApprovedBy: akmal
ApproveDate: 09/28/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
ACCUSTANDAR	C-260S-H-10X	216111142	09/27/17	11/10/26	Revolus, Jean	10	1ml	1000	PPM

Veritech Control/Receipt Number: 11249

Description: Aroclor 1016

ApprovedBy: akmal
ApproveDate: 10/27/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	48097	XA23753V	10/27/17	11/30/19	Hamid, Akmal	1	1ML	1000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11250

Description: Aroclor 1221

ApprovedBy: akmal
ApproveDate: 10/27/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	48098	XA25689V	10/27/17	04/30/20	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 11264

Description: Acetone

ApprovedBy: akmal
ApproveDate: 11/08/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	176288	11/07/17	05/08/20	Lopez, Jose	32	4L	neat	neat

Veritech Control/Receipt Number: 11269

Description: n-hexane

ApprovedBy: akmal
ApproveDate: 11/15/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
EMD	1.04371.4000	I868471	11/08/17	12/31/19	Lopez, Jose	32	4L	neat	neat

Veritech Control/Receipt Number: 11302

Description: Aroclor 1254

ApprovedBy: akmal
ApproveDate: 11/30/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44808	XA26287V	11/30/17	04/30/20	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 11303

Description: Aroclor 1242

ApprovedBy: akmal
ApproveDate: 11/30/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44806	XA26286V	11/30/17	04/30/20	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 11305

Description: Aroclor 1260

ApprovedBy: akmal
ApproveDate: 12/01/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44809	XA25133V	12/01/17	02/28/20	Hamid, Akmal	1	1ML	1000	PPM

Veritech Control/Receipt Number: 11330

Description: Acetone

ApprovedBy: akmal
ApproveDate: 12/18/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9254-03	176288	12/14/17	05/08/20	Lopez, Jose	48	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11392

Description
n-hexane

ApprovedBy: akmal
ApproveDate: 01/15/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
EMD	1.04371.4000	I868471	01/12/18	12/31/19	Lopez, Jose	23	4L	neat	neat

Veritech Control/Receipt Number: 11452

Description
Aroclor 1248

ApprovedBy: akmal
ApproveDate: 02/02/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Supelco	44807	LRAB7117	02/02/18	12/31/20	Hamid, Akmal	1	1ML	1000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11475

Description
Hexanes

ApprovedBy: akmal
ApproveDate: 02/08/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	H300-4	178202	02/06/18	12/31/22	Lopez, Jose	16	4L	neat	neat

Veritech Control/Receipt Number: 11486

Description
sodium sulfate

ApprovedBy: akmal
ApproveDate: 02/12/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
seidler	SC-3375-1C	725103	02/12/18	02/12/22	Burwell, John	4	100 L	neat	neat

Veritech Control/Receipt Number: 11493

Description
Methylene Chloride

ApprovedBy: akmal
ApproveDate: 02/16/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9264-03	176216	02/16/18	09/06/18	Lopez, Jose	52	4L	neat	neat

GC TPH Data

GC TPH Data
QC Summary

FORM2

Surrogate Recovery

Method: EPA 8015D

Dfile	Sample#	Matrix	Date/Time	Surr Dil	Dilute Out Flag	Column1 S1 Recov	Column1 S2 Recov	Column0 S3 Recov	Column0 S4 Recov	Column0 S5 Recov	Column0 S6 Recov
4G60121.D	WMB66104	A	02/28/18 11:28	1		92	96				
4G60131.D	AD02799-002	A	03/01/18 12:32	1		84	95				
4G60122.D	WMB66104(MS)	A	02/28/18 11:52	1		96	111				
4G60130.D	AD02791-001	A	03/01/18 12:07	1		69	89				
4G60132.D	AD02791-001(MS)	A	03/01/18 12:56	1		79	107				
4G60133.D	AD02791-001(MSD)	A	03/01/18 13:21	1		96	112				

Flags: SD=Surrogate diluted out
*=Surrogate out

Method: EPA 8015D

Aqueous Laboratory Limits

Compound	Spike Amt	Limits
S1=Chlorobenzene	20	24-136
S2=O-Terphenyl	20	40-154

Form3
Recovery Data Laboratory Limits
QC Batch: WMB66104

	Data File	Sample ID:	Analysis Date
Spike or Dup:	4G60122.D	WMB66104(MS)	2/28/2018 11:52:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):	4G60120.D	INST BLK	2/28/2018 10:48:00 AM

Method: 8015 Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2643.05	0	3000	88	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3

Recovery Data Laboratory Limits

QC Batch: WMB66104

	Data File	Sample ID:	Analysis Date
Spike or Dup:	4G60132.D	AD02791-001(MS)	3/1/2018 12:56:00 PM
Non Spike(If applicable):	4G60130.D	AD02791-001	3/1/2018 12:07:00 PM
Inst Blank(If applicable):	4G60127.D	INST BLK	3/1/2018 10:53:00 AM

Method: 8015 Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	3644.06	1390.07	3000	75	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	4G60133.D	AD02791-001(MSD)	3/1/2018 1:21:00 PM
Non Spike(If applicable):	4G60130.D	AD02791-001	3/1/2018 12:07:00 PM
Inst Blank(If applicable):	4G60127.D	INST BLK	3/1/2018 10:53:00 AM

Method: 8015 Matrix: Aqueous QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	3707.72	1390.07	3000	77	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: WMB66104

	Data File	Sample ID:	Analysis Date
Spike or Dup:	4G60133.D	AD02791-001(MSD)	3/1/2018 1:21:00 PM
Duplicate(If applicable):	4G60132.D	AD02791-001(MS)	3/1/2018 12:56:00 PM
Inst Blank(If applicable):	4G60127.D	INST BLK	3/1/2018 10:53:00 AM

Method: 8015 Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	1	3707.72	3644.06	1.7	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

FORM 4
Blank Summary

Blank Number: WMB66104
Blank Data File: 4G60121.D
Matrix: Aqueous

Blank Analysis Date: 02/28/18 11:28
Blank Extraction Date: 02/28/18
(If Applicable)
Method: EPA 8015D

Sample Number	Data File	Analysis Date
AD02799-002	4G60131.D	03/01/18 12:32
AD02791-001(MSD	4G60133.D	03/01/18 13:21
AD02791-001(MS)	4G60132.D	03/01/18 12:56
AD02791-001	4G60130.D	03/01/18 12:07
WMB66104(MS)	4G60122.D	02/28/18 11:52

Form 5

Method: EPA 8015D

Instrument: GC_4 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
4G59684.D	INST BLK	01/23/18 08:39	Soil					
4G59685.D	CAL TPH@20PPM	01/23/18 09:04	Soil		8.2410	0		
4G59686.D	CAL TPH@20PPM	01/23/18 09:29	Soil		8.2402	0		
4G59687.D	CAL TPH@500PPM	01/23/18 09:58	Soil	4G59692	8.3007	0.7789		
4G59688.D	CAL TPH@100PPM	01/23/18 10:23	Soil	4G59692	8.2578	0.2607		
4G59689.D	CAL TPH@40PPM	01/23/18 10:48	Soil	4G59692	8.2468	0.1274		
4G59690.D	CAL TPH@20PPM	01/23/18 11:13	Soil	4G59692	8.2426	0.0765		
4G59691.D	CAL TPH@10PPM	01/23/18 11:38	Soil	4G59692	8.2379	0.0194		
4G59692.D	CAL TPH@5PPM	01/23/18 12:02	Soil	4G59692	8.2363	0		
4G59693.D	ICVTPH@20PPM	01/23/18 13:11	Soil	4G59692	8.2459	0.1165		
4G59694.D	20PPM	01/23/18 13:47	Soil	4G59692	8.2444	0.0983		
4G59695.D	TEST	01/23/18 14:12	Soil	4G59692	8.2385	0.0267		
4G59696.D	TEST	01/23/18 14:41	Soil	4G59692	8.2404	0.0498		
4G59697.D	TEST	01/23/18 15:18	Soil	4G59692	8.2371	0.0097		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_4 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
4G60086.D	INST BLK	02/27/18 09:23	Aqueous					
4G60087.D	CAL TPH@20PPM	02/27/18 09:47	Aqueous	4G60087.	8.2382	0		
4G60088.D	INST BLK	02/27/18 10:13	Aqueous	4G60087.	0.0000	200		
4G60089.D	02646-004	02/27/18 10:38	Aqueous	4G60087.	8.2280	0.1239		
4G60090.D	AD02646-002	02/27/18 11:02	Aqueous	4G60087.	8.2369	0.0158		
4G60091.D	AD02646-005	02/27/18 11:27	Aqueous	4G60087.	8.2296	0.1044		
4G60092.D	TEST	02/27/18 11:51	Aqueous	4G60087.	8.2297	0.1032		
4G60093.D	CAL TPH@20PPM	02/27/18 12:16	Aqueous	4G60087.	8.2347	0.0425		
4G60094.D	20PPM	02/27/18 15:23	Aqueous	4G60093.	8.2429	0.0995		
4G60095.D	INST BLK	02/27/18 15:48	Soil	4G60093.	0.0000	200		
4G60096.D	SMB66092	02/27/18 16:12	Soil	4G60093.	8.2314	0.0401		
4G60097.D	SMB66093	02/27/18 16:37	Soil	4G60093.	8.2303	0.0534		
4G60098.D	SMB66092(MS)	02/27/18 17:02	Soil	4G60093.	8.2320	0.0328		
4G60099.D	SMB66093(MS)	02/27/18 17:27	Soil	4G60093.	8.2339	0.0097		
4G60100.D	AD02746-002	02/27/18 17:52	Soil	4G60093.	8.2237	0.1337		
4G60101.D	AD02746-004	02/27/18 18:16	Soil	4G60093.	8.2281	0.0802		
4G60102.D	AD02746-012	02/27/18 18:41	Soil	4G60093.	8.2306	0.0498		
4G60103.D	AD02746-010	02/27/18 19:06	Soil	4G60093.	8.2299	0.0583		
4G60104.D	AD02746-008	02/27/18 19:31	Soil	4G60093.	8.2242	0.1276		
4G60105.D	AD02746-006	02/27/18 19:56	Soil	4G60093.	8.2315	0.0389		
4G60106.D	AD02746-002(MS)	02/27/18 20:20	Soil	4G60093.	8.2374	0.0328		
4G60107.D	AD02746-002(MSD)	02/27/18 20:45	Soil	4G60093.	8.2366	0.0231		
4G60108.D	AD02798-014(MS)	02/27/18 21:09	Soil	4G60093.	8.2356	0.0109		
4G60109.D	AD02798-014(MSD)	02/27/18 21:34	Soil	4G60093.	8.2361	0.017		
4G60110.D	AD02774-002	02/27/18 21:58	Soil	4G60093.	8.2305	0.051		
4G60111.D	AD02774-004	02/27/18 22:23	Soil	4G60093.	8.2323	0.0292		
4G60112.D	AD02774-006	02/27/18 22:47	Soil	4G60093.	8.2317	0.0364		
4G60113.D	20PPM	02/27/18 23:12	Soil	4G60093.	8.2348	0.0012		
4G60114.D	CAL TPH@20PPM	02/27/18 23:36	Soil	4G60093.	8.2340	0.0085		
4G60115.D	INST BLK	02/28/18 08:30	Soil	4G60114.	0.0000	200		
4G60116.D	AD02798-014	02/28/18 08:55	Soil	4G60114.	8.2358	0.0219		
4G60117.D	AD02798-012	02/28/18 09:19	Soil	4G60114.	8.2315	0.0304		
4G60118.D	20PPM	02/28/18 09:44	Soil	4G60114.	8.2346	0.0073		
4G60119.D	CAL TPH@20PPM	02/28/18 10:09	Soil	4G60114.	8.2349	0.0109		
4G60120.D	INST BLK	02/28/18 10:48	Aqueous	4G60119.	0.0000	200		
4G60121.D	WMB66104	02/28/18 11:28	Aqueous	4G60119.	8.2399	0.0607		
4G60122.D	WMB66104(MS)	02/28/18 11:52	Aqueous	4G60119.	8.2432	0.1007		
4G60123.D	AD02646-004(R)	02/28/18 12:17	Aqueous	4G60119.	8.2356	0.0085		
4G60124.D	CAL TPH@20PPM	02/28/18 12:42	Aqueous	4G60119.	8.2350	0.0012		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

Form 5

Method: EPA 8015D
Instrument: GC_4 Column: DB-5MS 30M 0.250mm ID 0.25um film

Data File	Sample#	Analysis Date/Time	Matrix	Reference File	Column 1 RT	Column 1 % Drift	Column 2 RT	Column 2 % Drift
4G60125.D	INST BLK	03/01/18 10:00	Aqueous					
4G60126.D	CAL TPH@20PPM	03/01/18 10:25	Aqueous	4G60126.	8.2381	0		
4G60127.D	INST BLK	03/01/18 10:53	Aqueous	4G60126.	0.0000	200		
4G60128.D	AD02791-003	03/01/18 11:18	Aqueous	4G60126.	8.2365	0.0194		
4G60129.D	AD02791-002	03/01/18 11:43	Aqueous	4G60126.	8.2377	0.0049		
4G60130.D	AD02791-001	03/01/18 12:07	Aqueous	4G60126.	8.2397	0.0194		
4G60131.D	AD02799-002	03/01/18 12:32	Aqueous	4G60126.	8.2352	0.0352		
4G60132.D	AD02791-001(MS)	03/01/18 12:56	Aqueous	4G60126.	8.2438	0.0692		
4G60133.D	AD02791-001(MSD)	03/01/18 13:21	Aqueous	4G60126.	8.2465	0.1019		
4G60134.D	TEST	03/01/18 13:46	Aqueous	4G60126.	0.0000	200		
4G60135.D	02799-002	03/01/18 14:11	Aqueous	4G60126.	8.2398	0.0206		
4G60136.D	CAL TPH@20PPM	03/01/18 14:35	Aqueous	4G60126.	8.2387	0.0073		

Drift Compound: O-Terphenyl Drift Limit(s): 0.5 (Pest/Pcb) 1.5(Herb/Tph) * - Values outside of limits for this column/run

GC TPH Data
Sample Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: AD02799-002
Client Id: WC_02232018
Data File: 4G60131.D
Analysis Date: 03/01/18 12:32
Date Rec/Extracted: 02/26/18-02/28/18
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocar	**300**	**680**				

Worksheet #: 454976

Total Target Concentration 680

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2018\GC_4\Data\03-01-18\
Data File : 4G60131.D
Signal(s) : FID1A.CH
Acq On : 1 Mar 2018 12:32
Operator : RAK/AH
Sample : AD02799-002
Misc : A.TPH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 01 13:13:02 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

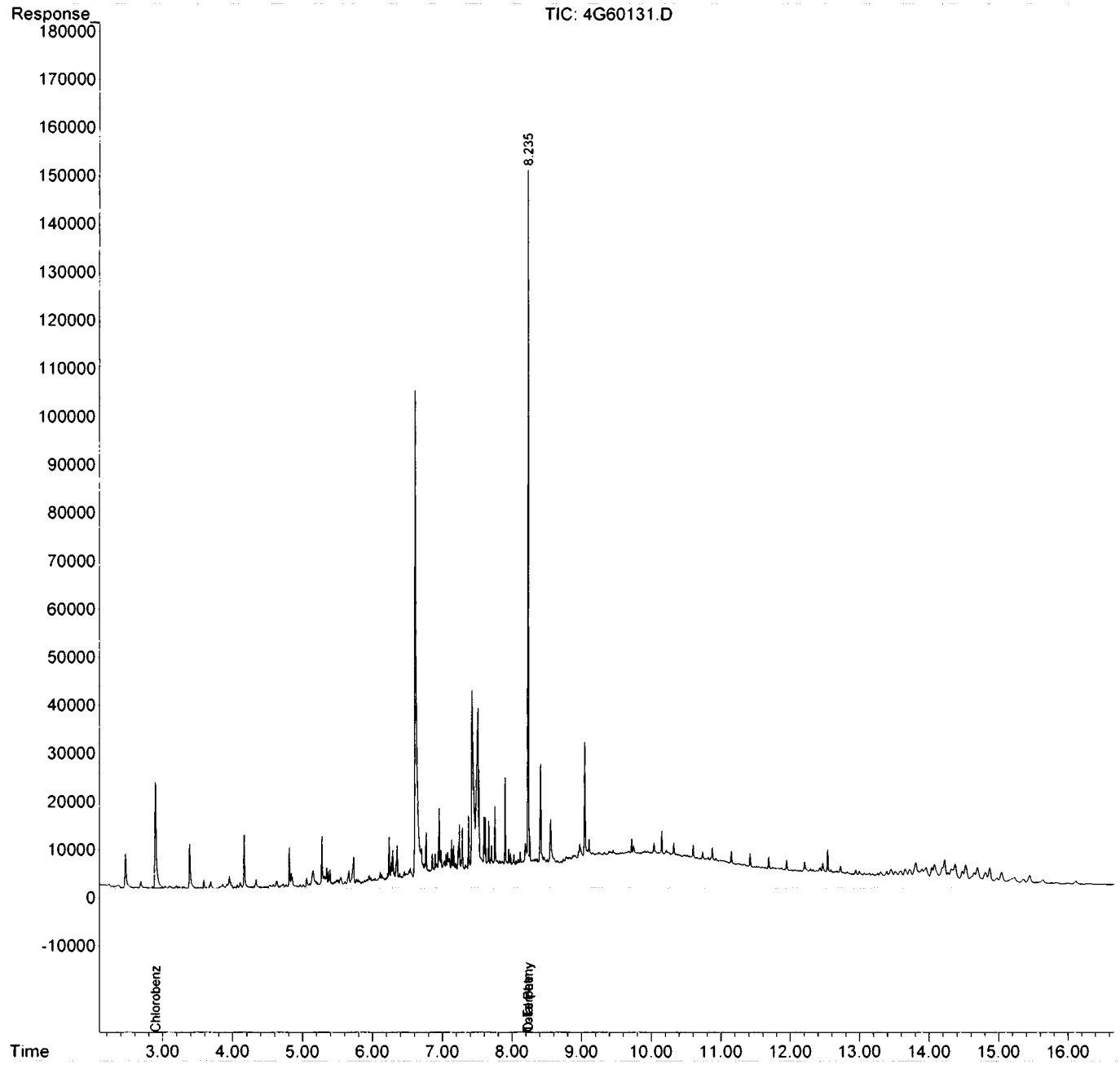
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)mt	C8	0.000	0	N.D.	d
2)mte	C9	0.000	0	N.D.	d
3)mdte	C10	0.000	0	N.D.	d
4)mdte	C12	0.000	0	N.D.	d
5)mdte	C14	0.000	0	N.D.	d
6)dte	C16	0.000	0	N.D.	d
7)dte	C17	0.000	0	N.D.	d
8)dte	Pristane	0.000	0	N.D.	d
9)dte	C18	0.000	0	N.D.	d
10)dte	Phytane	0.000	0	N.D.	d
11)dte	C20	0.000	0	N.D.	d
12)dte	C22	0.000	0	N.D.	d
13)dte	C24	0.000	0	N.D.	d
14)dte	C26	0.000	0	N.D.	d
15)dte	C28	0.000	0	N.D.	d
16)te	C30	0.000	0	N.D.	d
17)te	C32	0.000	0	N.D.	d
18)te	C34	0.000	0	N.D.	d
19)te	C36	0.000	0	N.D.	d
20)t	C40	0.000	0	N.D.	d
21)	Chlorobenzene	2.896	326756	16.849	
22)	O-Terphenyl	8.235	977826	19.067	m
23)d	Diesel Range Organics(T	0.000	0	N.D.	d
24)t	Total Petroleum Hydroca	8.235f	32828878	737.270	m
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.	d
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.	d
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.	d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2018\GC_4\Data\03-01-18\
Data File : 4G60131.D
Signal(s) : FID1A.CH
Acq On : 1 Mar 2018 12:32
Operator : RAK/AH
Sample : AD02799-002
Misc : A.TPH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 01 13:13:02 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



GC TPH Data
Standards Data

8022605 0425

Form 6
Initial Calibration

Method: EPA 8015D

Instrument: GC_4

Level #:	Data File:	Cal Identifier:	Analysis Date/Time	Level #:	Data File:	Cal Identifier:	Analysis Date/Time
1	4G59692.D	CAL TPH@5PPM	01/23/18 12:02	2	4G59691.D	CAL TPH@10PPM	01/23/18 11:38
3	4G59690.D	CAL TPH@20PPM	01/23/18 11:13	4	4G59689.D	CAL TPH@40PPM	01/23/18 10:48
5	4G59688.D	CAL TPH@100PPM	01/23/18 10:23	6	4G59687.D	CAL TPH@500PPM	01/23/18 09:58

Compound	Col	Mr	Fit:	RF1	RF2	RF3	RF4	RF5	RF6	RF7	RF8	AvgRf	RT	Corr1	Corr2	%Rsd	Calibration Level Concentrations Lvl1	Lvl2	Lvl3	Lvl4	Lvl5	Lvl6	Lvl7	Lvl8
C8	1	0	Avg	2.1060	2.1008	2.1610	2.1289	2.1393	2.3814	----	----	2.17	2.42	1.00	1.00	4.9	5.00	10.00	20.00	40.00	100.0	500.0		
C9	1	0	Avg	2.4776	2.4975	2.5507	2.4854	2.4838	2.7489	----	----	2.54	3.35	0.998	1.00	4.2	5.00	10.00	20.00	40.00	100.0	500.0		
C10	1	0	Avg	2.4438	2.6124	2.7686	2.7398	2.8214	3.1531	----	----	2.76	4.13	1.00	1.00	8.6	5.00	10.00	20.00	40.00	100.0	500.0		
C12	1	0	Qua	1.6692	2.1851	2.8202	2.9824	3.1989	3.5792	----	----	2.74	5.33	1.00	1.00	25	5.00	10.00	20.00	40.00	100.0	500.0		
C14	1	0	Qua	2.0689	2.8540	3.5393	3.9513	3.9286	4.0747	----	----	3.40	6.28	1.00	1.00	23	5.00	10.00	20.00	40.00	100.0	500.0		
C16	1	0	Avg	4.1992	4.2935	4.5320	4.3455	4.2253	4.3184	----	----	4.32	7.12	1.00	1.00	2.7	5.00	10.00	20.00	40.00	100.0	500.0		
C17	1	0	Avg	4.8586	4.5447	4.8627	4.8580	5.4536	7.3953	----	----	5.33	7.51	0.998	1.00	20	5.00	10.00	20.00	40.00	100.0	500.0		
Pristane	1	0	Qua	3.6932	4.3738	3.8920	3.7633	2.9373	1.1659	----	----	3.30	7.51	0.912	0.999	35	5.00	10.00	20.00	40.00	100.0	500.0		
C18	1	0	Avg	3.6084	4.1673	4.6897	4.6102	4.5803	5.8716	----	----	4.59	7.86	0.998	1.00	16	5.00	10.00	20.00	40.00	100.0	500.0		
Phytane	1	0	Avg	5.3234	4.8286	4.7014	4.3238	3.9392	2.8711	----	----	4.33	7.89	0.978	1.00	20	5.00	10.00	20.00	40.00	100.0	500.0		
C20	1	0	Avg	5.0212	5.1316	5.3590	5.0792	4.8066	4.7892	----	----	5.03	8.54	1.00	1.00	4.3	5.00	10.00	20.00	40.00	100.0	500.0		
C22	1	0	Avg	5.0584	5.1631	5.4118	5.1331	4.8376	4.7928	----	----	5.07	9.16	1.00	1.00	4.5	5.00	10.00	20.00	40.00	100.0	500.0		
C24	1	0	Avg	5.3539	5.4245	5.7064	5.4064	5.0815	5.0583	----	----	5.34	9.75	1.00	1.00	4.5	5.00	10.00	20.00	40.00	100.0	500.0		
C26	1	0	Avg	5.4149	5.4295	5.7198	5.4265	5.1159	5.1065	----	----	5.37	10.32	1.00	1.00	4.3	5.00	10.00	20.00	40.00	100.0	500.0		
C28	1	0	Avg	5.3287	5.4335	5.8014	5.5054	5.2197	5.2435	----	----	5.42	10.87	1.00	1.00	4.0	5.00	10.00	20.00	40.00	100.0	500.0		
C30	1	0	Avg	5.5567	5.5395	5.8209	5.5365	5.2691	5.2773	----	----	5.50	11.40	1.00	1.00	3.7	5.00	10.00	20.00	40.00	100.0	500.0		
C32	1	0	Avg	5.7791	5.7578	6.0586	5.7384	5.5041	5.4945	----	----	5.72	11.93	1.00	1.00	3.6	5.00	10.00	20.00	40.00	100.0	500.0		
C34	1	0	Avg	5.6573	5.5983	5.9169	5.6210	5.3701	5.3359	----	----	5.58	12.44	1.00	1.00	3.8	5.00	10.00	20.00	40.00	100.0	500.0		
C36	1	0	Avg	5.4999	5.5244	5.9171	5.6495	5.4334	5.3823	----	----	5.57	12.97	1.00	1.00	3.5	5.00	10.00	20.00	40.00	100.0	500.0		
C40	1	0	Avg	4.3957	4.6756	5.2919	5.1789	5.1613	5.1444	----	----	4.97	14.46	1.00	1.00	7.1	5.00	10.00	20.00	40.00	100.0	500.0		
Chlorobenzene	1	0	Avg	1.9736	1.9587	1.9716	1.9044	1.8748	1.9523	----	----	1.94	2.90	1.00	1.00	2.1	5.00	10.00	20.00	40.00	100.0	500.0		
O-Terphenyl	1	0	Avg	5.1938	5.1834	5.3903	5.1194	4.9073	4.9765	----	----	5.13	8.24	1.00	1.00	3.4	5.00	10.00	20.00	40.00	100.0	500.0		
Diesel Range Organics(TO	1	0	Avg	4.1571	4.3417	4.6003	4.4711	4.3189	4.4169	----	----	4.38	4.13	1.00	1.00	3.4	65.00	130.0	260.0	520.0	1300.	6500.		
Total Petroleum Hydrocarb	1	0	Avg	4.2757	4.4068	4.6761	4.5232	4.3754	4.4592	----	----	4.45	2.42	1.00	1.00	3.1	100.0	200.0	400.0	800.0	2000.	10000		
Ext. Petroleum Hydrocarbo	1	0	Avg	4.3896	4.5200	4.7816	4.6198	4.4559	4.5366	----	----	4.55	3.35	1.00	1.00	3.0	90.00	180.0	360.0	720.0	1800.	9000.		
Mineral Spirits(TOTAL)	1	0	Avg	2.1531	2.4500	2.7679	2.8576	2.9144	3.1874	----	----	2.72	2.99	1.00	1.00	13	25.00	50.00	100.0	200.0	500.0	2500.		
Stoddard Solvent(TOTAL)	1	0	Avg	2.1531	2.4500	2.7679	2.8576	2.9144	3.1874	----	----	2.72	2.99	1.00	1.00	13	25.00	50.00	100.0	200.0	500.0	2500.		

Avg Rsd Col 1: 9.47 Avg Rsd Col 2: -1.00

Flags

c - failed the initial calibration criteria(if applicable)

Note:

Col = Column Number
Mr = MultiPeak Analyte 0=single peak analyte, >0=multi peak analyte (i.e. pcb/chlordane etc.)
Fit = Indicates whether Avg RF, Linear, or Quadratic Curve was used for compound.
Corr 1 = Correlation Coefficient for linear Eq.
Corr 2 = Correlation Coefficient for quad Eq.

All Response Factors = Response Factors / 10000
Initial Calibration Criteria: either %RSD <=20 or Corr >= .995
Columns: Signal #1 db-1701 ; Signal #2 db-608

^Lvl: These compounds use a single pt calibration as specified by the method. The file used to update this calibration point is listed in the header under level #

Data Path : G:\Gcdata\2018\GC_4\Data\01-23-18\
Data File : 4G59692.D
Signal(s) : FID1A.CH
Acq On : 23 Jan 2018 12:02
Operator : RAK/AH
Sample : CAL TPH@5PPM
Misc : S.TPH
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 23 12:35:41 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 11:59:52 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

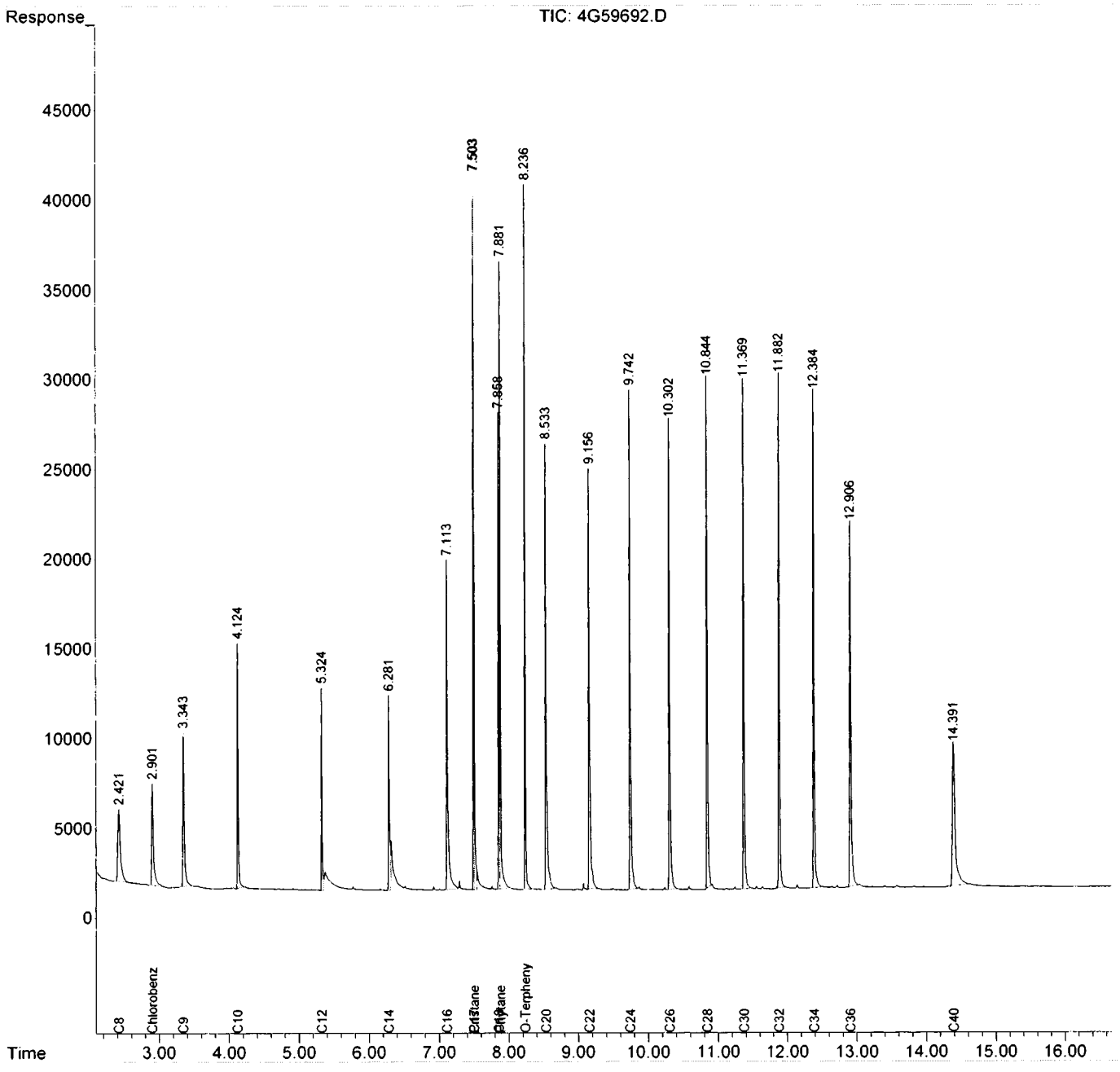
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	2.422	105303	6.258		
2)mte	C9	3.344	123882	6.761		
3)mdte	C10	4.124	122193	6.437		
4)mdte	C12	5.324	83461	4.156		m
5)mdte	C14	6.281	103446	4.221		m
6)dte	C16	7.114	209963	8.361		
7)dte	C17	7.503	242934	8.805		m
8)dte	Pristane	7.503	184662	7.503		m
9)dte	C18	7.858	180420	7.295		
10)dte	Phytane	7.881	266170	10.159		
11)dte	C20	8.534	251063	8.856		
12)dte	C22	9.156	252921	8.922		
13)dte	C24	9.742	267698	8.973		
14)dte	C26	10.303	270748	9.025		
15)dte	C28	10.844	266436	8.735		
16)te	C30	11.369	277837	9.099		
17)te	C32	11.882	288959	9.152		
18)te	C34	12.385	282868	9.245		
19)te	C36	12.907	274997	9.082		
20)t	C40	14.392	219787	8.274		
21)	Chlorobenzene	2.902	98680	7.146		
22)	O-Terphenyl	8.236	259693	8.814		
23)d	Diesel Range Organics(T	0.000	0	N.D.		d
24)t	Total Petroleum Hydroca	0.000	0	N.D.		d
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2018\GC_4\Data\01-23-18\
Data File : 4G59692.D
Signal(s) : FID1A.CH
Acq On : 23 Jan 2018 12:02
Operator : RAK/AH
Sample : CAL TPH@5PPM
Misc : S.TPH
ALS Vial : 9 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 23 12:35:41 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 11:59:52 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2018\GC_4\Data\01-23-18\
Data File : 4G59691.D
Signal(s) : FID1A.CH
Acq On : 23 Jan 2018 11:38
Operator : RAK/AH
Sample : CAL TPH@10PPM
Misc : S.TPH
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 23 12:34:03 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 11:59:52 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

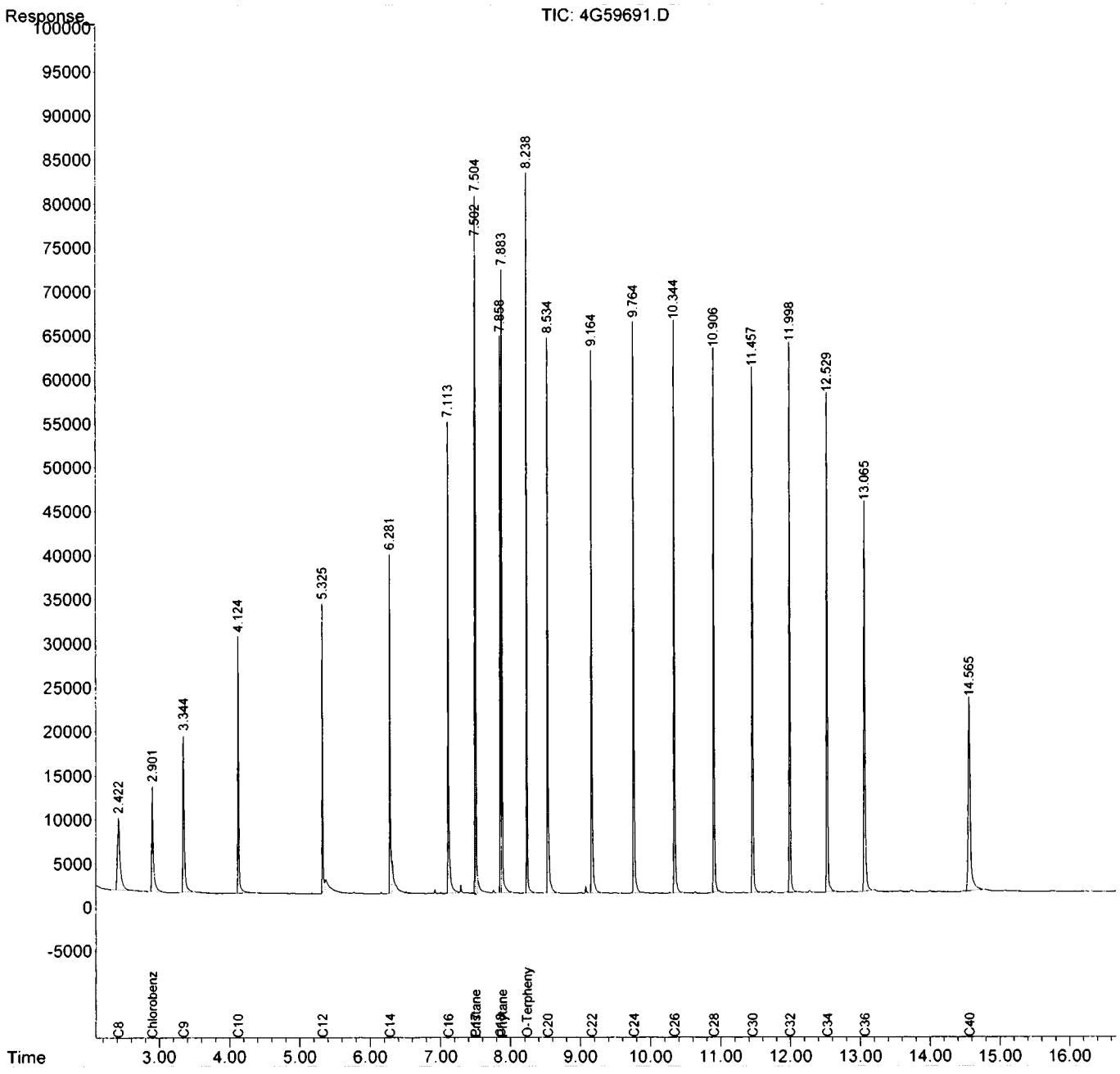
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	2.423	210087	12.485		
2)mte	C9	3.345	249759	13.631		
3)mdte	C10	4.125	261247	13.761		
4)mdte	C12	5.325	218510	10.866		
5)mdte	C14	6.282	285403	11.645		
6)dte	C16	7.113	429357	17.097		
7)dte	C17	7.502	454473	16.369		m
8)dte	Pristane	7.504	437383	17.984		m
9)dte	C18	7.859	416732	16.851		
10)dte	Phytane	7.883	482869	18.430		
11)dte	C20	8.535	513165	18.102		
12)dte	C22	9.165	516319	18.214		
13)dte	C24	9.765	542454	18.182		
14)dte	C26	10.344	542955	18.098		
15)dte	C28	10.906	543358	17.813		
16)te	C30	11.457	553959	18.142		
17)te	C32	11.998	575783	18.237		
18)te	C34	12.529	559837	18.297		
19)te	C36	13.066	552442	18.244		
20)t	C40	14.565	467563	17.601		
21)	Chlorobenzene	2.902	195875	14.185		
22)	O-Terphenyl	8.238	518340	17.592		
23)d	Diesel Range Organics(T	0.000	0	N.D.		d
24)t	Total Petroleum Hydroca	0.000	0	N.D.		d
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2018\GC_4\Data\01-23-18\
Data File : 4G59691.D
Signal(s) : FID1A.CH
Acq On : 23 Jan 2018 11:38
Operator : RAK/AH
Sample : CAL TPH@10PPM
Misc : S.TPH
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 23 12:34:03 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 11:59:52 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2018\GC_4\Data\01-23-18\
Data File : 4G59690.D
Signal(s) : FID1A.CH
Acq On : 23 Jan 2018 11:13
Operator : RAK/AH
Sample : CAL TPH@20PPM
Misc : S.TPH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 23 12:32:25 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 11:59:52 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

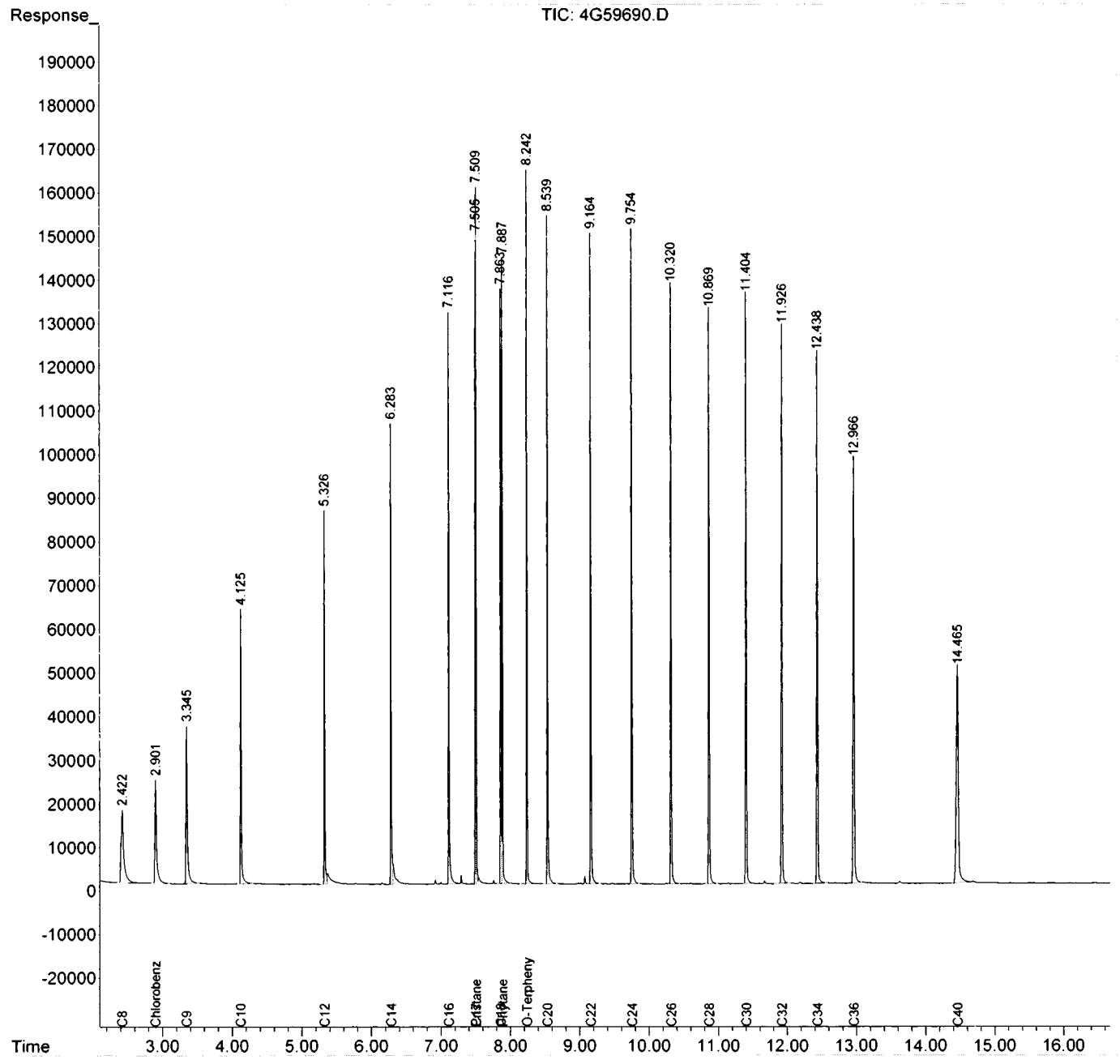
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	2.423	432212	25.686		
2)mte	C9	3.345	510146	27.842		
3)mdte	C10	4.125	553722	29.167		
4)mdte	C12	5.326	564041	27.948		
5)mdte	C14	6.283	707863	28.883		m
6)dte	C16	7.116	906416	36.093		
7)dte	C17	7.505	972548	34.505		m
8)dte	Pristane	7.509	778418	32.548		m
9)dte	C18	7.863	937943	37.926		
10)dte	Phytane	7.887	940293	35.890		
11)dte	C20	8.539	1071814	37.808		
12)dte	C22	9.164	1082374	38.182		
13)dte	C24	9.754	1141284	38.254		
14)dte	C26	10.320	1143969	38.132		
15)dte	C28	10.869	1160297	38.038		
16)te	C30	11.404	1164192	38.127		
17)te	C32	11.925	1211730	38.379		
18)te	C34	12.438	1183387	38.675		
19)te	C36	12.966	1183424	39.081		
20)t	C40	14.464	1058395	39.842		
21)	Chlorobenzene	2.902	394336	28.558		
22)	O-Terphenyl	8.243	1078075	36.588		
23)d	Diesel Range Organics(T	0.000	0	N.D.		d
24)t	Total Petroleum Hydroca	0.000	0	N.D.		d
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2018\GC_4\Data\01-23-18\
Data File : 4G59690.D
Signal(s) : FID1A.CH
Acq On : 23 Jan 2018 11:13
Operator : RAK/AH
Sample : CAL TPH@20PPM
Misc : S.TPH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 23 12:32:25 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 11:59:52 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2018\GC_4\Data\01-23-18\
Data File : 4G59689.D
Signal(s) : FID1A.CH
Acq On : 23 Jan 2018 10:48
Operator : RAK/AH
Sample : CAL TPH@40PPM
Misc : S.TPH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 23 12:30:22 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 11:59:52 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

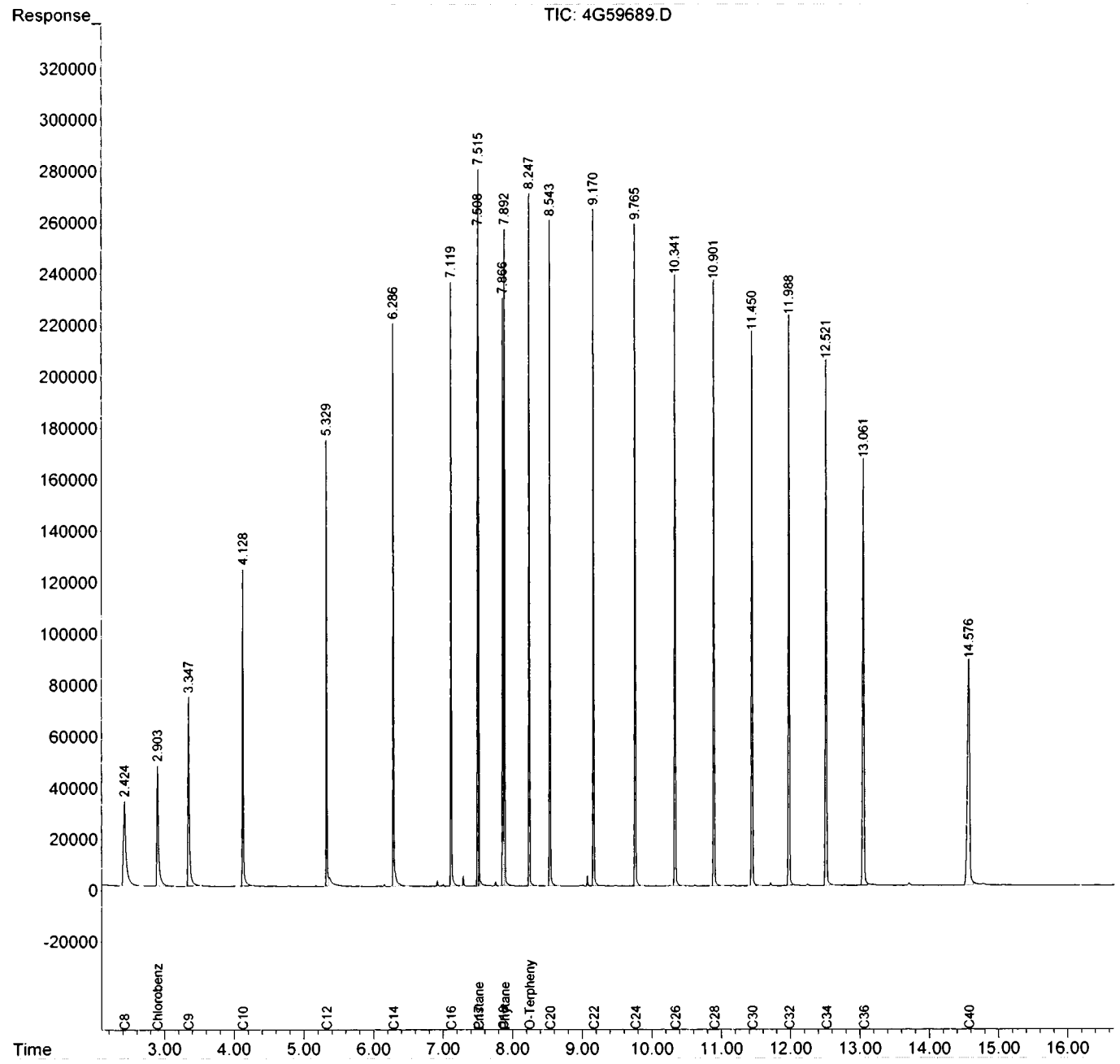
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	2.425	851566	50.609		
2)mte	C9	3.347	994158	54.259		
3)mdte	C10	4.128	1095954	57.730		
4)mdte	C12	5.329	1192988	58.737		
5)mdte	C14	6.286	1580526	64.494		
6)dte	C16	7.119	1738201	69.214		
7)dte	C17	7.508	1943206	67.141		m
8)dte	Pristane	7.515	1505326	65.445		m
9)dte	C18	7.866	1844116	74.568		
10)dte	Phytane	7.892	1729544	66.014		
11)dte	C20	8.543	2031697	71.667		
12)dte	C22	9.170	2053252	72.430		
13)dte	C24	9.765	2162586	72.486		
14)dte	C26	10.341	2170601	72.352		
15)dte	C28	10.901	2202173	72.194		
16)te	C30	11.449	2214619	72.528		
17)te	C32	11.988	2295386	72.701		m
18)te	C34	12.521	2248412	73.483		m
19)te	C36	13.061	2259827	74.629		m
20)t	C40	14.576f	2071593	77.984		m
21)	Chlorobenzene	2.903	761794	55.169		
22)	O-Terphenyl	8.247	2047770	69.498		
23)d	Diesel Range Organics(T	0.000	0	N.D.		d
24)t	Total Petroleum Hydroca	0.000	0	N.D.		d
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2018\GC_4\Data\01-23-18\
Data File : 4G59689.D
Signal(s) : FID1A.CH
Acq On : 23 Jan 2018 10:48
Operator : RAK/AH
Sample : CAL TPH@40PPM
Misc : S.TPH
ALS Vial : 6 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 23 12:30:22 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 11:59:52 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2018\GC_4\Data\01-23-18\
Data File : 4G59688.D
Signal(s) : FID1A.CH
Acq On : 23 Jan 2018 10:23
Operator : RAK/AH
Sample : CAL TPH@100PPM
Misc : S.TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 23 12:27:03 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 11:59:52 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

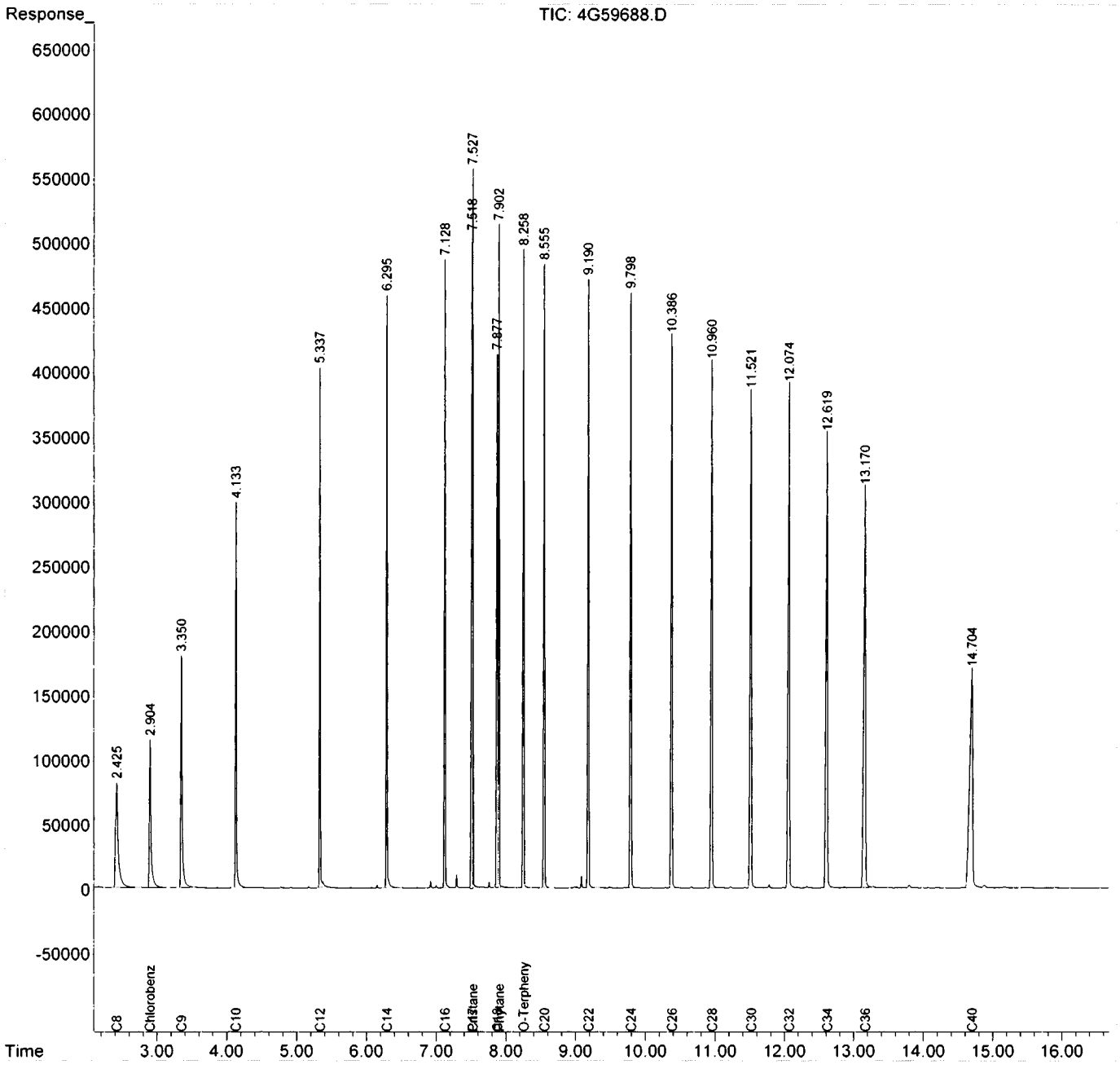
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	2.425	2139388	127.144		
2)mte	C9	3.351	2483823	135.561		
3)mdte	C10	4.133	2821479	148.622		
4)mdte	C12	5.336	3198917	154.452		
5)mdte	C14	6.295	3928673	160.328		
6)dte	C16	7.128	4225337	168.250		
7)dte	C17	7.518	5453611	173.622		m
8)dte	Pristane	7.527	2937305	140.419		m
9)dte	C18	7.877	4580395	185.210		
10)dte	Phytane	7.902	3939206	150.353		m
11)dte	C20	8.554	4806676	169.553		
12)dte	C22	9.190	4837653	170.653		
13)dte	C24	9.798	5081545	170.324		m
14)dte	C26	10.386	5115922	170.528		m
15)dte	C28	10.960	5219736	171.120		m
16)te	C30	11.521	5269179	172.563		m
17)te	C32	12.074	5504134	174.331		m
18)te	C34	12.619f	5370174	175.508		m
19)te	C36	13.170f	5433406	179.433		m
20)t	C40	14.704f	5161346	194.295		m
21)	Chlorobenzene	2.904	1874800	135.772		
22)	O-Terphenyl	8.258	4907367	166.549		
23)d	Diesel Range Organics(T	0.000	0	N.D.		d
24)t	Total Petroleum Hydroca	0.000	0	N.D.		d
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2018\GC_4\Data\01-23-18\
Data File : 4G59688.D
Signal(s) : FID1A.CH
Acq On : 23 Jan 2018 10:23
Operator : RAK/AH
Sample : CAL TPH@100PPM
Misc : S.TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 23 12:27:03 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 11:59:52 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2018\GC_4\Data\01-23-18\
Data File : 4G59687.D
Signal(s) : FID1A.CH
Acq On : 23 Jan 2018 9:58
Operator : RAK/AH
Sample : CAL TPH@500PPM
Misc : S.TPH
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 23 12:10:16 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 11:59:52 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

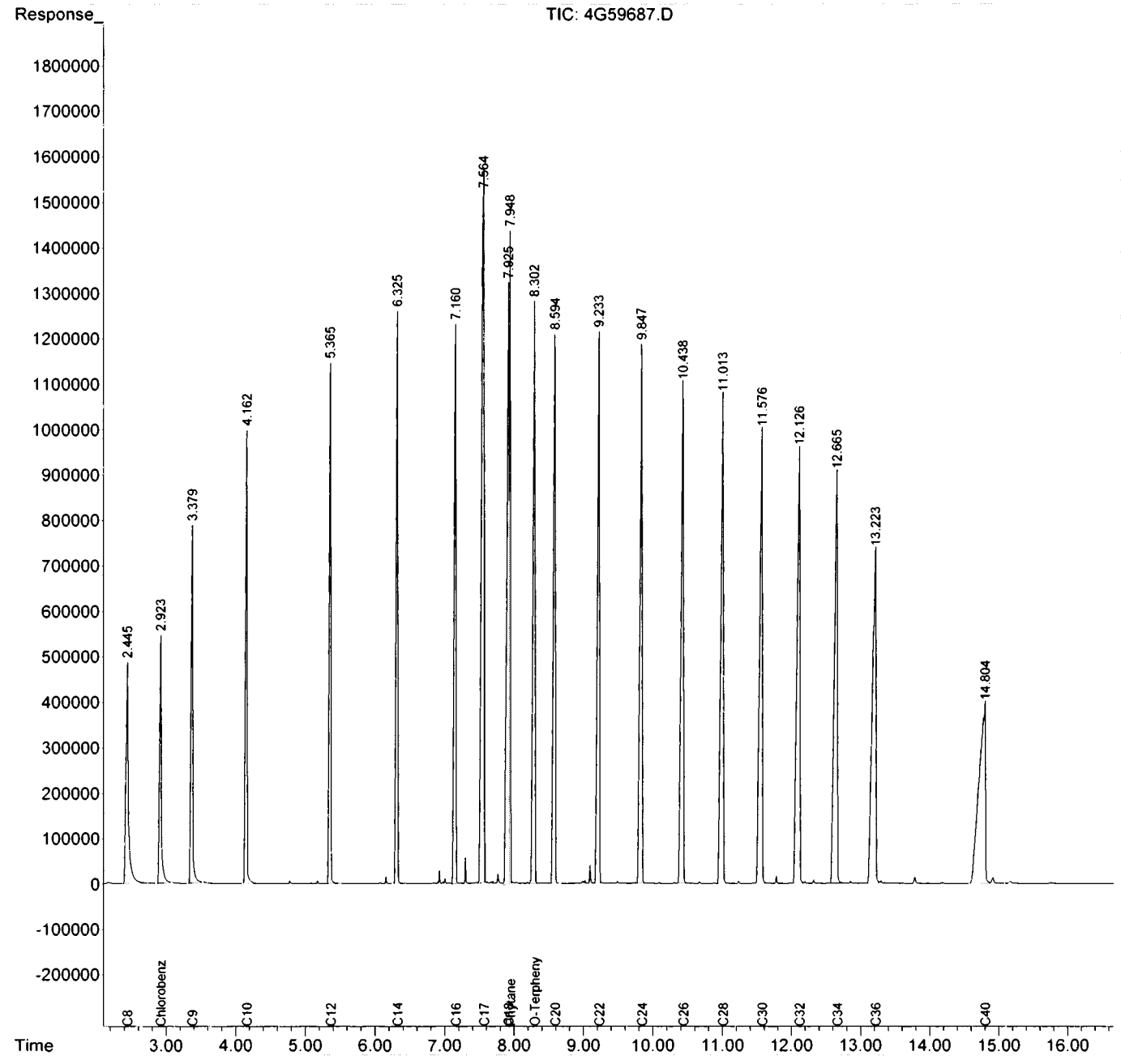
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	2.445	11907210	707.646		
2)mte	C9	3.379	13744652	750.149		
3)mdte	C10	4.161	15765530	830.454		
4)mdte	C12	5.364	17896017	768.606		
5)mdte	C14	6.324	20373854	832.111		
6)dte	C16	7.160	21592030	859.778		m
7)dte	C17	7.564	36976639	803.573		m
8)dte	Pristane	7.570	5829924	BelowCal		m
9)dte	C18	7.925	29358450	1187.121		m
10)dte	Phytane	7.948	14355566	547.929		m
11)dte	C20	8.594	23946448	844.700		
12)dte	C22	9.233	23963984	845.352		m
13)dte	C24	9.847f	25291772	847.733		m
14)dte	C26	10.438	25532598	851.075		m
15)dte	C28	11.013	26217528	859.496		m
16)te	C30	11.576	26386552	864.146		m
17)te	C32	12.126f	27472756	870.136		m
18)te	C34	12.665f	26679667	871.946		m
19)te	C36	13.223f	26911490	888.727		m
20)t	C40	14.804f	25722424	968.301		m
21)	Chlorobenzene	2.923	9761783	706.944		
22)	O-Terphenyl	8.301	24882478	844.473		
23)d	Diesel Range Organics(T	0.000	0	N.D.		d
24)t	Total Petroleum Hydroca	0.000	0	N.D.		d
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2018\GC_4\Data\01-23-18\
Data File : 4G59687.D
Signal(s) : FID1A.CH
Acq On : 23 Jan 2018 9:58
Operator : RAK/AH
Sample : CAL TPH@500PPM
Misc : S.TPH
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Jan 23 12:10:16 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 11:59:52 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



TxtDfile: 4G59693.D ICV FORM Date/Time: 01/23/18 13:11 8022605 0438

Compound	bytCol Num:	bytMr Num:	Type	sngConc:	Exp Conc	Rec	Flag	sngLoLim:	sngHiLim:
C8	1	0		18.51	20	93		70	130
C9	1	0		18.17	20	91		70	130
C10	1	0		17.64	20	88		70	130
C12	1	0		15.86	20	79		70	130
C14	1	0		18.13	20	91		70	130
C16	1	0		18.25	20	91		70	130
C17	1	0		18.4	20	92		70	130
Pristane	1	0		21.71	20	109		70	130
C18	1	0		17.6	20	88		70	130
Phytane	1	0		20.52	20	103		70	130
C20	1	0		18.55	20	93		70	130
C22	1	0		18.62	20	93		70	130
C24	1	0		18.29	20	91		70	130
C26	1	0		18.68	20	93		70	130
C28	1	0		18.59	20	93		70	130
C30	1	0		18.5	20	93		70	130
C32	1	0		18.21	20	91		70	130
C34	1	0		18.11	20	91		70	130
C36	1	0		18.38	20	92		70	130
C40	1	0		18.29	20	91		70	130
Chlorobenzene	1	0		18.15	20	91		70	130
O-Terphenyl	1	0		18.35	20	92		70	130

Form7
Continuing Calibration

Method: EPA 8015D

Data File:				4G60119.D			4G60124.D			4G60126.D			4G60136.D						
Method:				8015			8015			8015			8015						
Calibration Name:				CAL TPH@20PPM			CAL TPH@20PPM			CAL TPH@20PPM			CAL TPH@20PPM						
Calibration Date/Time				02/28/18 10:09			02/28/18 12:42			03/01/18 10:25			03/01/18 14:35						
Compound	Limit	Col	Mr	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	Conc	Exp	%Diff	
C8	20	1	0	20.41	20	2.0	14.02	20	29.9*	13.07	20	34.7*	22.06	20	10.3				
C9	20	1	0	21.3	20	6.5	20.88	20	4.4	18.95	20	5.2	23.06	20	15.3				
C10	20	1	0	22.05	20	10.3	21.38	20	6.9	19.19	20	4.0	23.84	20	19.2				
C12	20	1	0	21.63	20	8.1	21.01	20	5.1	18.89	20	5.6	23.43	20	17.2				
C14	20	1	0	21.08	20	5.4	20.79	20	4.0	18.29	20	8.5	21.8	20	9.0				
C16	20	1	0	20.04	20	0.2	20.33	20	1.7	18.59	20	7.0	20.53	20	2.7				
C17	20	1	0	20.14	20	0.7	18.73	20	6.4	17.25	20	13.8	18.58	20	7.1				
Pristane	20	1	0	20.93	20	4.7	23.43	20	17.2	20.8	20	4.0	25.06	20	25.3*				
C18	20	1	0	19.38	20	3.1	19.59	20	2.0	17.82	20	10.9	20.15	20	0.7				
Phytane	20	1	0	19.99	20	0.1	20.2	20	1.0	18.74	20	6.3	20.45	20	2.3				
C20	20	1	0	19.27	20	3.6	19.47	20	2.7	17.89	20	10.6	19.79	20	1.0				
C22	20	1	0	19.13	20	4.4	19.3	20	3.5	17.77	20	11.2	19.49	20	2.6				
C24	20	1	0	18.97	20	5.2	19.18	20	4.1	17.56	20	12.2	19.18	20	4.1				
C26	20	1	0	18.9	20	5.5	19.13	20	4.4	17.53	20	12.4	19	20	5.0				
C28	20	1	0	19.04	20	4.8	19.24	20	3.8	17.62	20	11.9	18.74	20	6.3				
C30	20	1	0	18.77	20	6.1	18.99	20	5.1	17.26	20	13.7	18.61	20	6.9				
C32	20	1	0	18.76	20	6.2	18.91	20	5.5	16.44	20	17.8	17.82	20	10.9				
C34	20	1	0	18.81	20	6.0	18.81	20	6.0	14.76	20	26.2*	16.26	20	18.7				
C36	20	1	0	18.91	20	5.5	18.78	20	6.1	12.75	20	36.3*	14.7	20	26.5*				
C40	20	1	0	19.14	20	4.3	18.68	20	6.6	9.97	20	50.2*	13.08	20	34.6*				
Chlorobenzene	20	1	0	21.62	20	8.1	21.37	20	6.9	19.42	20	2.9	23.52	20	17.6				
O-Terphenyl	20	1	0	20.33	20	1.7	20.53	20	2.7	18.91	20	5.5	21.06	20	5.3				
Average Difference	20	1	0			4.7			6.2			14.1			11.3				

Flags/Notes: **** - Values outside of limits for this column/run***

Form7
RtWindow Summary

Method: EPA 8015D

Data File:
Calibration Name:
Calibration Date/Time

Compound	Col	Mr	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit	Cal RT	Limit
C8	1	0										
C9	1	0										
C10	1	0										
C12	1	0										
C14	1	0										
C16	1	0										
C17	1	0										
Pristane	1	0										
C18	1	0										
Phytane	1	0										
C20	1	0										
C22	1	0										
C24	1	0										
C26	1	0										
C28	1	0										
C30	1	0										
C32	1	0										
C34	1	0										
C36	1	0										
C40	1	0										
Chlorobenzene	1	0										
O-Terphenyl	1	0	8.25	(8.21 - 8.29)	8.23	(8.19 - 8.27)	8.24	(8.20 - 8.28)				
Diesel Range Organic	1	0										
Total Petroleum Hydr	1	0										
Ext. Petroleum Hydro	1	0										
Mineral Spirits	1	0										
Stoddard Solvent	1	0										

Data Path : G:\Gcdata\2018\GC_4\Data\02-27-18\
Data File : 4G60119.D
Signal(s) : FID1A.CH
Acq On : 28 Feb 2018 10:09
Operator : RAK/AH
Sample : CAL TPH@20PPM
Misc : S.TPH
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 28 10:41:16 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

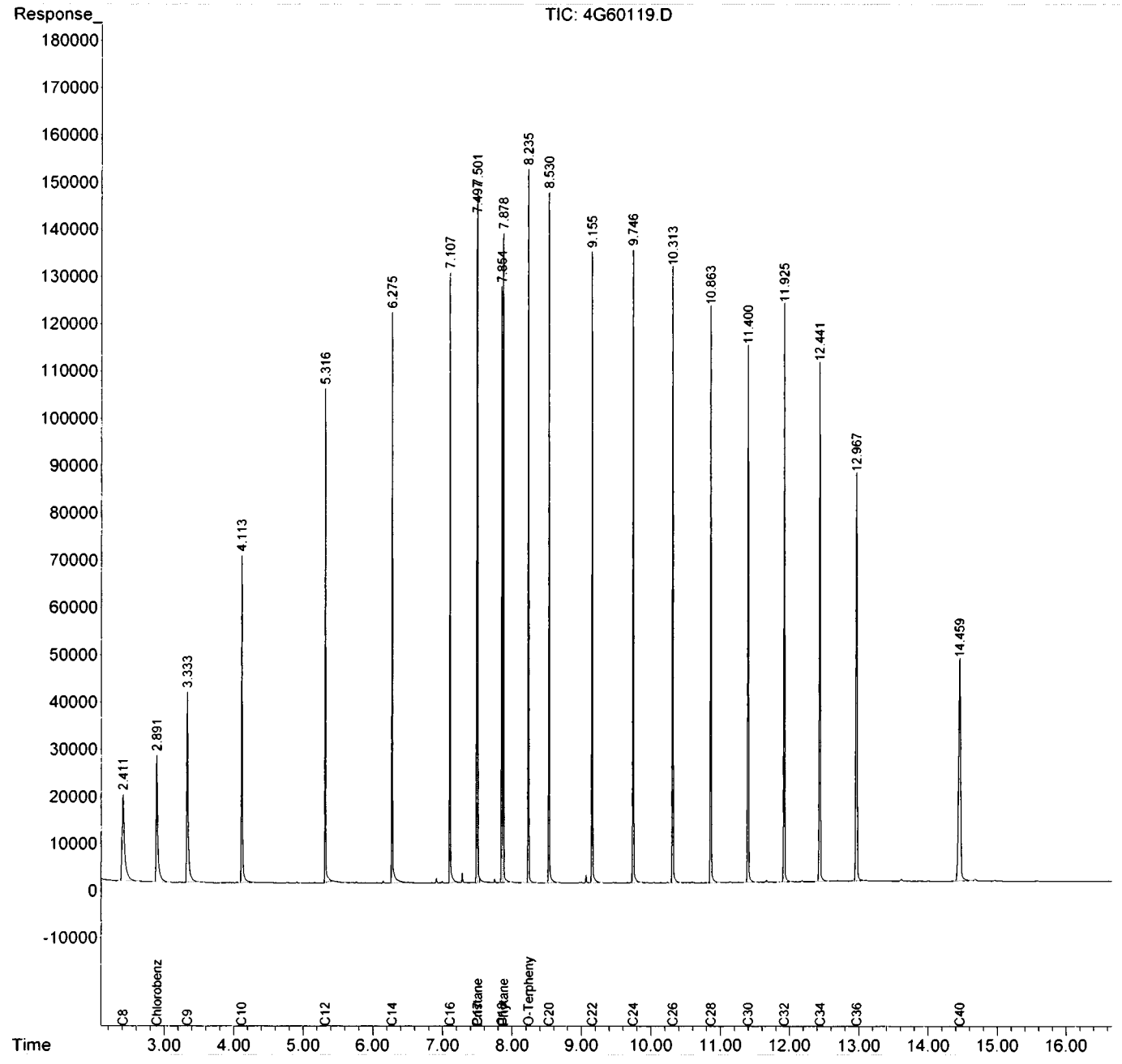
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	2.412	442782	20.408		
2)mte	C9	3.334	541152	21.299		
3)mdte	C10	4.113	607846	22.051		
4)mdte	C12	5.317	663730	21.627		
5)mdte	C14	6.275	816589	21.077		
6)dte	C16	7.107	865557	20.041		
7)dte	C17	7.497	1073493	20.145		m
8)dte	Pristane	7.501	716455	20.931		m
9)dte	C18	7.854	889263	19.382		
10)dte	Phytane	7.878	865817	19.990		
11)dte	C20	8.530	969506	19.270		
12)dte	C22	9.155	969007	19.127		
13)dte	C24	9.746	1012732	18.970		
14)dte	C26	10.313	1014558	18.897		
15)dte	C28	10.863	1032161	19.036		
16)te	C30	11.400	1032491	18.772		
17)te	C32	11.925	1073376	18.758		
18)te	C34	12.441	1050273	18.811		
19)te	C36	12.968	1052853	18.910		
20)t	C40	14.459	952170	19.140		
21)	Chlorobenzene	2.892	419242	21.618		
22)	O-Terphenyl	8.235	1042585	20.329		
23)d	Diesel Range Organics(T	0.000	0	N.D.		d
24)t	Total Petroleum Hydroca	0.000	0	N.D.		d
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2018\GC_4\Data\02-27-18\
Data File : 4G60119.D
Signal(s) : FID1A.CH
Acq On : 28 Feb 2018 10:09
Operator : RAK/AH
Sample : CAL TPH@20PPM
Misc : S.TPH
ALS Vial : 24 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 28 10:41:16 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2018\GC_4\Data\02-27-18\
Data File : 4G60124.D
Signal(s) : FID1A.CH
Acq On : 28 Feb 2018 12:42
Operator : RAK/AH
Sample : CAL TPH@20PPM
Misc : A.TPH
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 28 13:04:24 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	2.414	304205	14.021		m
2)mte	C9	3.335	530477	20.879		
3)mdte	C10	4.117	589466	21.384		
4)mdte	C12	5.319	644581	21.008		
5)mdte	C14	6.277	805313	20.787		
6)dte	C16	7.109	878154	20.332		
7)dte	C17	7.497	998040	18.729		m
8)dte	Pristane	7.501	799416	23.435		m
9)dte	C18	7.855	898799	19.590		
10)dte	Phytane	7.879	875043	20.203		
11)dte	C20	8.530	979595	19.470		
12)dte	C22	9.156	977844	19.301		
13)dte	C24	9.749	1024161	19.184		
14)dte	C26	10.319	1027299	19.134		
15)dte	C28	10.870	1043470	19.245		
16)te	C30	11.407	1044650	18.993		
17)te	C32	11.930	1082177	18.912		
18)te	C34	12.440	1050432	18.814		
19)te	C36	12.967	1045668	18.781		
20)t	C40	14.457	929043	18.675		
21)	Chlorobenzene	2.891	414356	21.366		
22)	O-Terphenyl	8.235	1052871	20.530		
23)d	Diesel Range Organics(T	0.000	0	N.D.		d
24)t	Total Petroleum Hydroca	0.000	0	N.D.		d
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

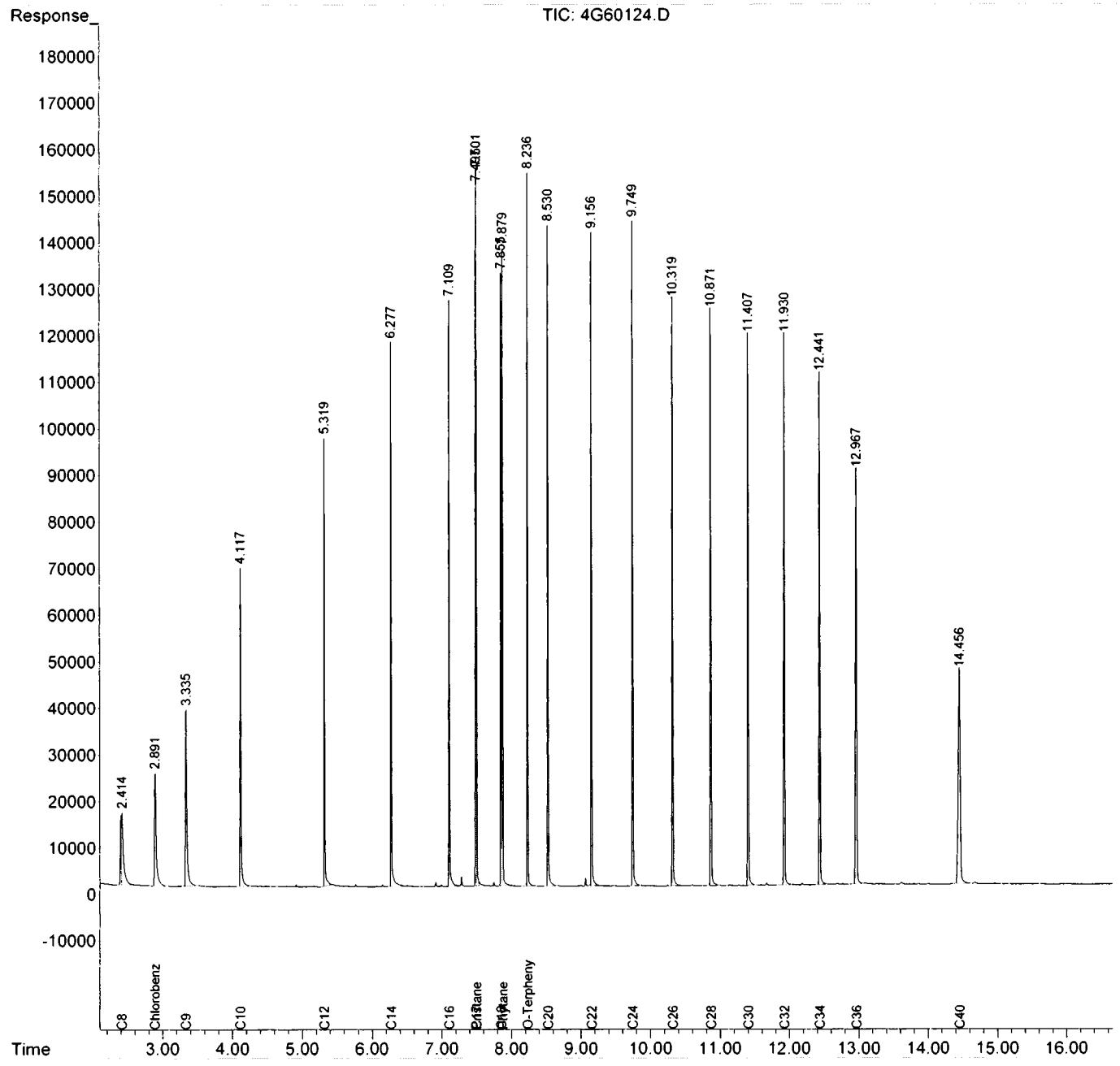
(f)=RT Delta > 1/2 Window (m)=manual int.



Data Path : G:\Gcdata\2018\GC_4\Data\02-27-18\
Data File : 4G60124.D
Signal(s) : FID1A.CH
Acq On : 28 Feb 2018 12:42
Operator : RAK/AH
Sample : CAL TPH@20PPM
Misc : A.TPH
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 28 13:04:24 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2018\GC_4\Data\03-01-18\
Data File : 4G60126.D
Signal(s) : FID1A.CH
Acq On : 1 Mar 2018 10:25
Operator : RAK/AH
Sample : CAL TPH@20PPM
Misc : A.TPH
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 01 10:50:37 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

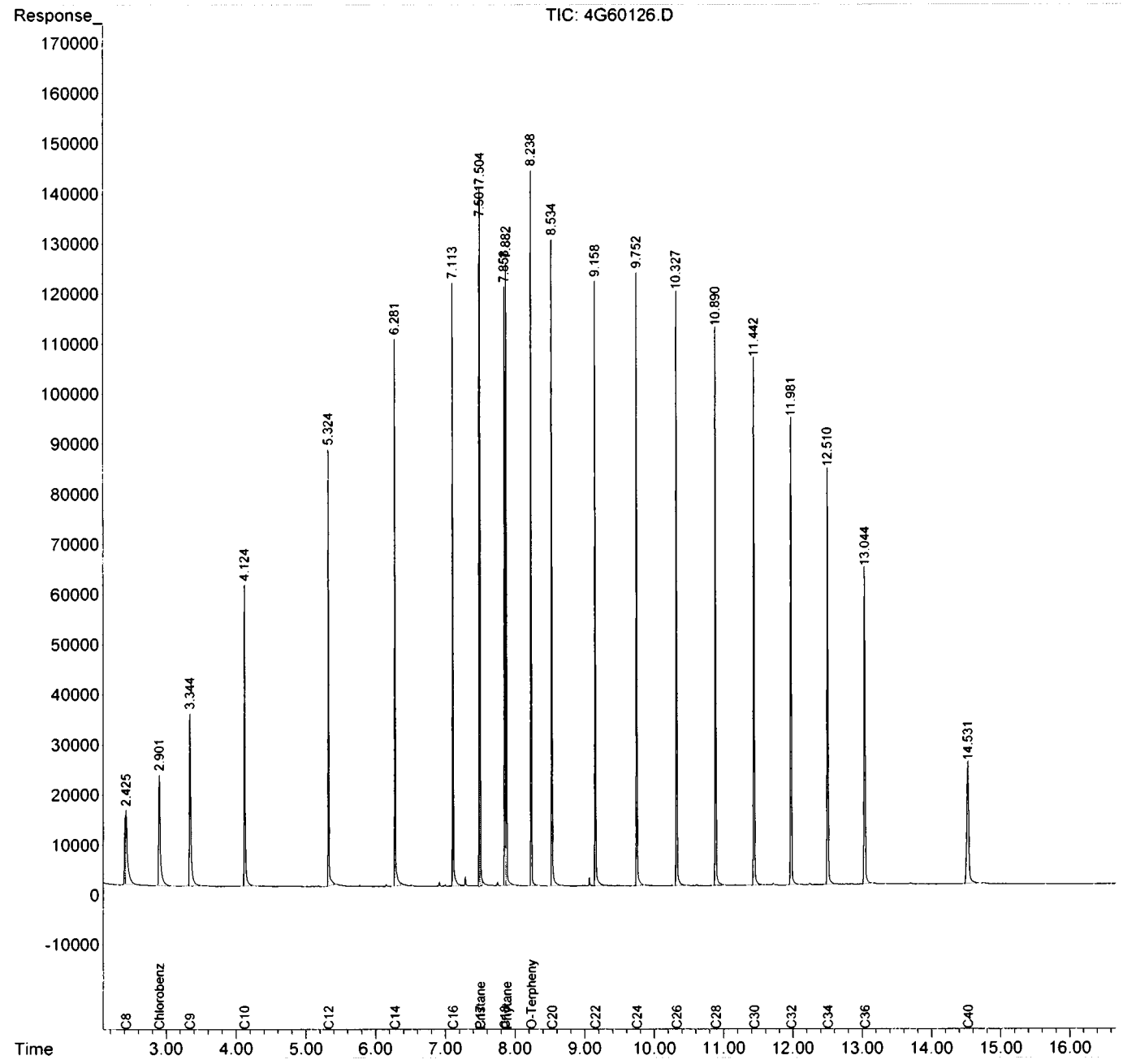
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	2.425	283547	13.069		m
2)mte	C9	3.344	481454	18.950		
3)mdte	C10	4.124	529051	19.192		
4)mdte	C12	5.324	579211	18.891		
5)mdte	C14	6.281	708405	18.290		
6)dte	C16	7.113	803046	18.593		
7)dte	C17	7.501	919112	17.248		m
8)dte	Pristane	7.504	712151	20.801		m
9)dte	C18	7.858	817708	17.823		
10)dte	Phytane	7.882	811606	18.738		
11)dte	C20	8.533	900240	17.893		
12)dte	C22	9.158	900284	17.770		
13)dte	C24	9.752	937352	17.558		
14)dte	C26	10.326	941202	17.531		
15)dte	C28	10.890	955242	17.618		
16)te	C30	11.441	949520	17.264		
17)te	C32	11.981	940793	16.441		
18)te	C34	12.511	824055	14.759		
19)te	C36	13.043	709864	12.749		
20)t	C40	14.531	496010	9.971		
21)	Chlorobenzene	2.902	376539	19.416		
22)	O-Terphenyl	8.238	969787	18.910		
23)d	Diesel Range Organics(T	0.000	0	N.D.		d
24)t	Total Petroleum Hydroca	0.000	0	N.D.		d
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2018\GC_4\Data\03-01-18\
Data File : 4G60126.D
Signal(s) : FID1A.CH
Acq On : 1 Mar 2018 10:25
Operator : RAK/AH
Sample : CAL TPH@20PPM
Misc : A.TPH
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 01 10:50:37 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2018\GC_4\Data\03-01-18\
Data File : 4G60136.D
Signal(s) : FID1A.CH
Acq On : 1 Mar 2018 14:35
Operator : RAK/AH
Sample : CAL TPH@20PPM
Misc : A.TPH
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 01 14:54:18 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

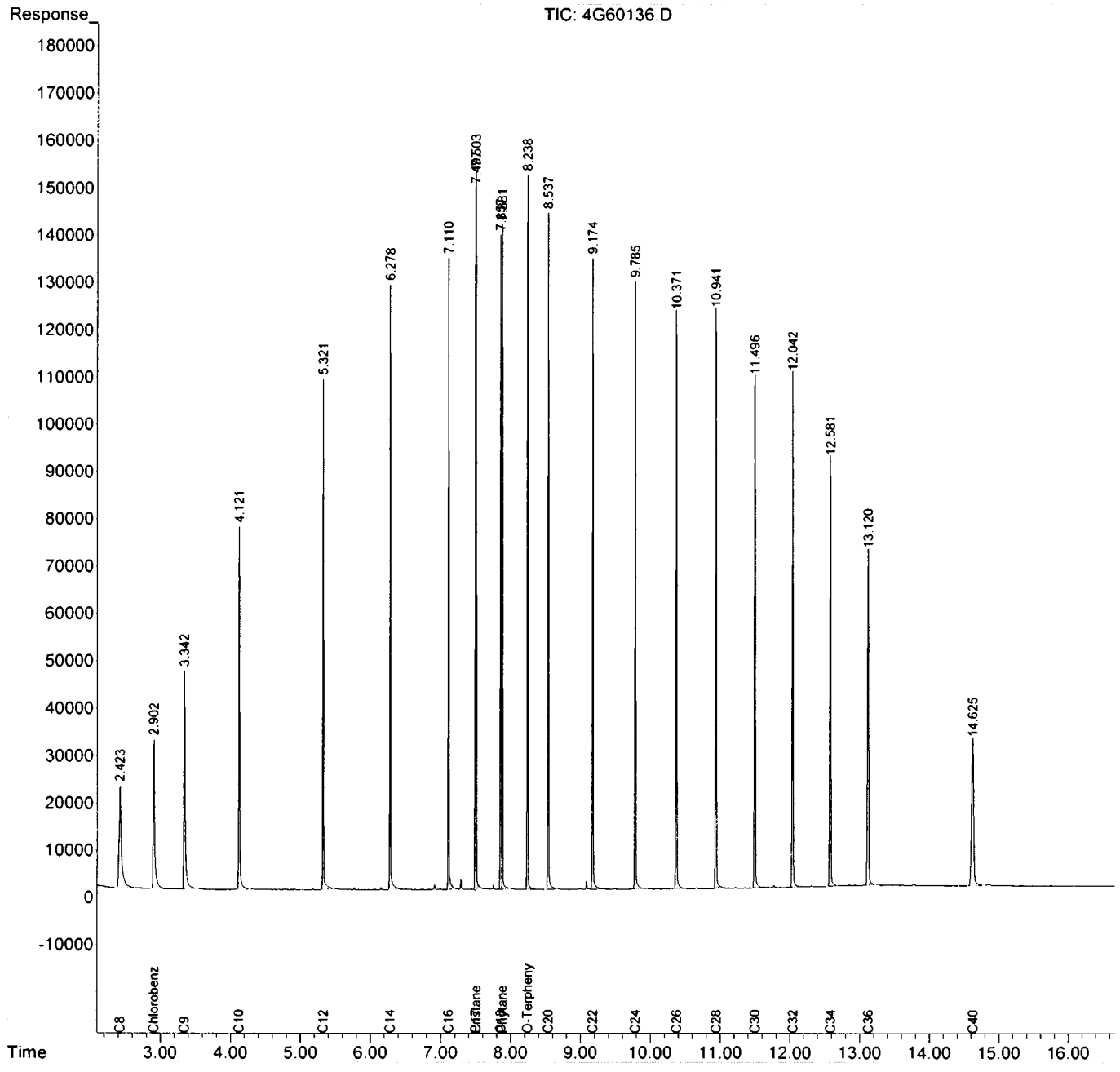
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	2.423	478620	22.060		
2)mte	C9	3.342	585790	23.056		
3)mdte	C10	4.121	657059	23.836		
4)mdte	C12	5.321	719609	23.433		
5)mdte	C14	6.278	844562	21.798		
6)dte	C16	7.111	886612	20.528		
7)dte	C17	7.497	990323	18.584		m
8)dte	Pristane	7.503	852825	25.057		m
9)dte	C18	7.857	924269	20.145		
10)dte	Phytane	7.881	885779	20.451		
11)dte	C20	8.537	995509	19.787		
12)dte	C22	9.174	987392	19.490		
13)dte	C24	9.785	1024011	19.181		
14)dte	C26	10.371	1019820	18.995		
15)dte	C28	10.941	1015871	18.736		
16)te	C30	11.496	1023700	18.613		
17)te	C32	12.042	1019568	17.818		
18)te	C34	12.581	908017	16.263		
19)te	C36	13.120	818733	14.705		
20)t	C40	14.625	650777	13.082		
21)	Chlorobenzene	2.902	456190	23.524		
22)	O-Terphenyl	8.239	1080206	21.063		
23)d	Diesel Range Organics(T	0.000	0	N.D.		d
24)t	Total Petroleum Hydroca	0.000	0	N.D.		d
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2018\GC_4\Data\03-01-18\
Data File : 4G60136.D
Signal(s) : FID1A.CH
Acq On : 1 Mar 2018 14:35
Operator : RAK/AH
Sample : CAL TPH@20PPM
Misc : A.TPH
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 01 14:54:18 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



GC TPH Data
Raw QC Data

Form1

ORGANICS PETROLEUM HYDROCARBON REPORT

Sample Number: WMB66104
Client Id:
Data File: 4G60121.D
Analysis Date: 02/28/18 11:28
Date Rec/Extracted: NA-02/28/18
Column: DB-5MS 30M 0.250mm ID 0.25um film

Method: EPA 8015D
Matrix: Aqueous
Initial Vol: 1000ml
Final Vol: 1ml
Dilution: 1
Solids: 0

Units: ug/L

Cas #	Compound	RL	Conc	Cas #	Compound	RL	Conc
	Total Petroleum Hydrocarbo	300	U				

Worksheet #: 454976

Total Target Concentration 0

ColumnID: (^) Indicates results from 2nd column

U - Indicates the compound was analyzed but not detected.
B - Indicates the analyte was found in the blank as well as in the sample.
E - Indicates the analyte concentration exceeds the calibration range of the instrument.
R - Retention Time Out
J - Indicates an estimated value when a compound is detected at less than the specified detection limit.
d - Pesticide %Diff>40% between columns due to coelution. Lower concentration usea
Chlordane (Total) is sum of a-Chlordane and y-Chlordane.

Data Path : G:\Gcdata\2018\GC_4\Data\02-27-18\
Data File : 4G60121.D
Signal(s) : FID1A.CH
Acq On : 28 Feb 2018 11:28
Operator : RAK/AH
Sample : WMB66104
Misc : A.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 28 12:16:26 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

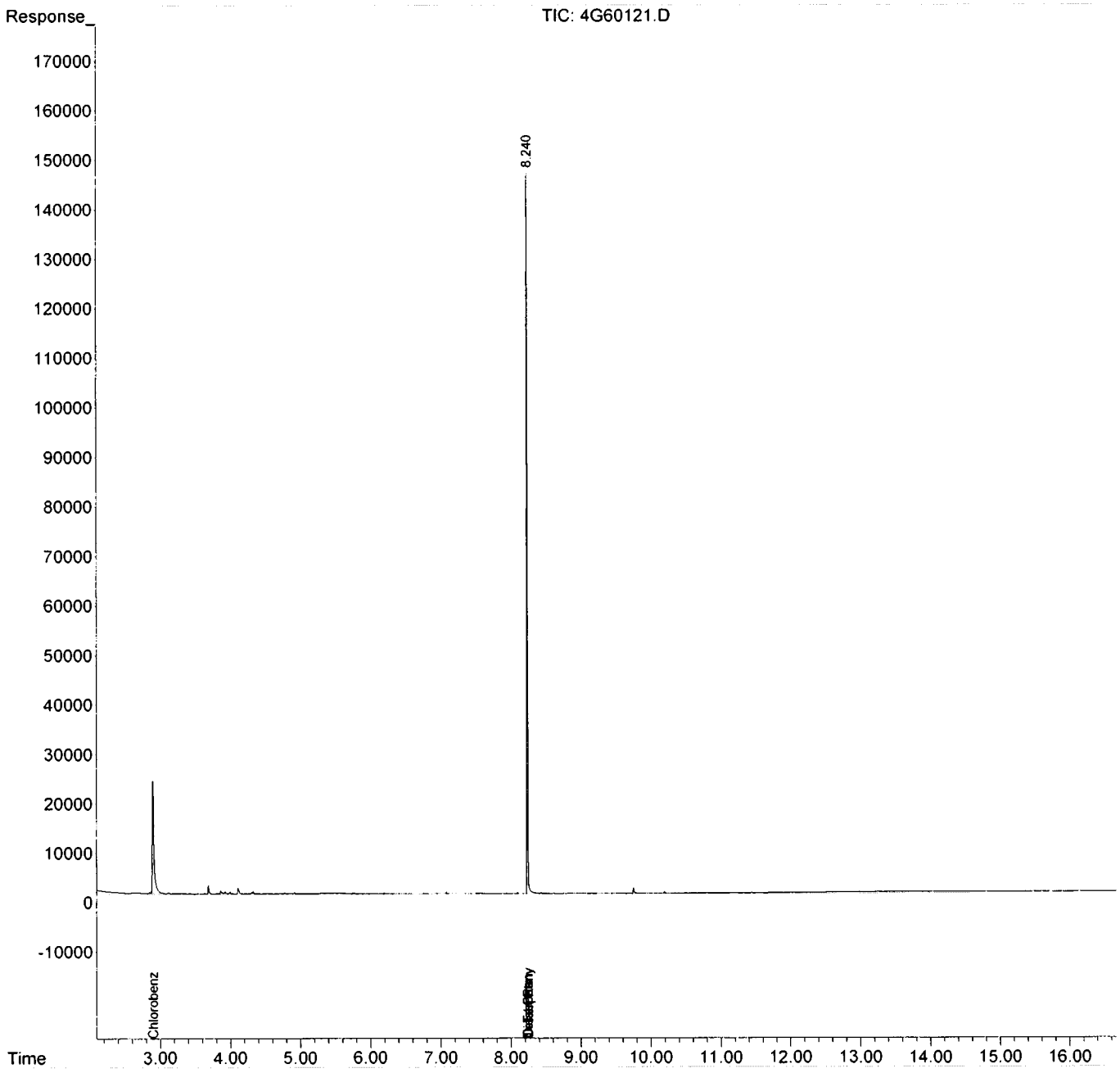
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)	Chlorobenzene	2.897	357366	18.428		
22)	O-Terphenyl	8.240	985842	19.223		
23)d	Diesel Range Organics(T	8.240f	1380393	31.484		m
24)t	Total Petroleum Hydroca	8.240f	2533962	56.908		m
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2018\GC_4\Data\02-27-18\
Data File : 4G60121.D
Signal(s) : FID1A.CH
Acq On : 28 Feb 2018 11:28
Operator : RAK/AH
Sample : WMB66104
Misc : A.TPH
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 28 12:16:26 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2018\GC_4\Data\02-27-18\
Data File : 4G60120.D
Signal(s) : FID1A.CH
Acq On : 28 Feb 2018 10:48
Operator : RAK/AH
Sample : INST BLK
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 28 11:13:53 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

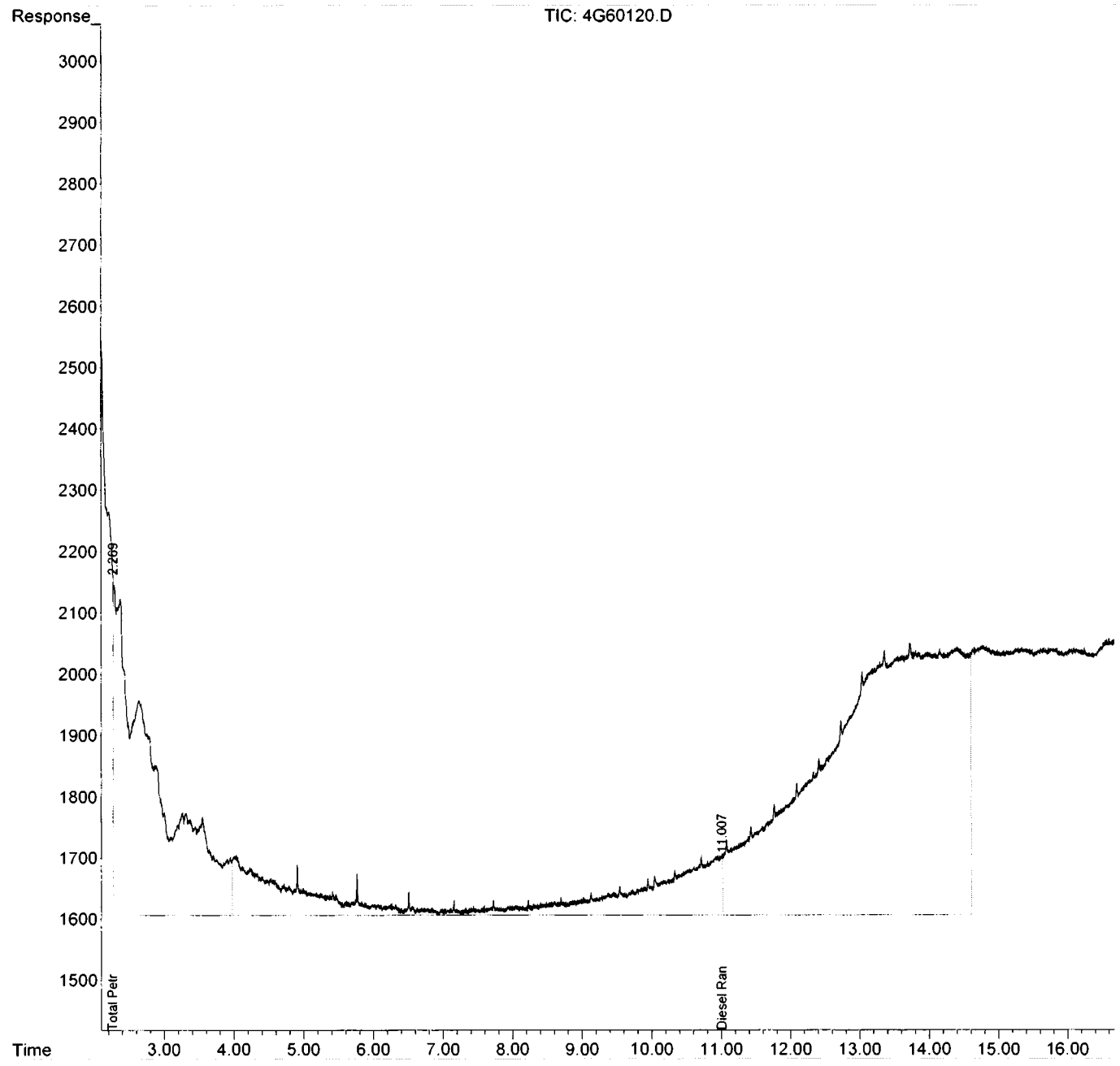
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)mt	C8	0.000	0	N.D.	d
2)mte	C9	0.000	0	N.D.	d
3)mdte	C10	0.000	0	N.D.	d
4)mdte	C12	0.000	0	N.D.	d
5)mdte	C14	0.000	0	N.D.	d
6)dte	C16	0.000	0	N.D.	d
7)dte	C17	0.000	0	N.D.	d
8)dte	Pristane	0.000	0	N.D.	d
9)dte	C18	0.000	0	N.D.	d
10)dte	Phytane	0.000	0	N.D.	d
11)dte	C20	0.000	0	N.D.	d
12)dte	C22	0.000	0	N.D.	d
13)dte	C24	0.000	0	N.D.	d
14)dte	C26	0.000	0	N.D.	d
15)dte	C28	0.000	0	N.D.	d
16)te	C30	0.000	0	N.D.	d
17)te	C32	0.000	0	N.D.	d
18)te	C34	0.000	0	N.D.	d
19)te	C36	0.000	0	N.D.	d
20)t	C40	0.000	0	N.D.	d
21)	Chlorobenzene	0.000	0	N.D.	d
22)	O-Terphenyl	0.000	0	N.D.	d
23)d	Diesel Range Organics(T	11.007f	134467	3.067	m
24)t	Total Petroleum Hydroca	2.269	987274	22.172	m
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.	d
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.	d
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.	d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2018\GC_4\Data\02-27-18\
Data File : 4G60120.D
Signal(s) : FID1A.CH
Acq On : 28 Feb 2018 10:48
Operator : RAK/AH
Sample : INST BLK
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 28 11:13:53 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2018\GC_4\Data\03-01-18\
Data File : 4G60127.D
Signal(s) : FID1A.CH
Acq On : 1 Mar 2018 10:53
Operator : RAK/AH
Sample : INST BLK
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 01 11:18:03 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

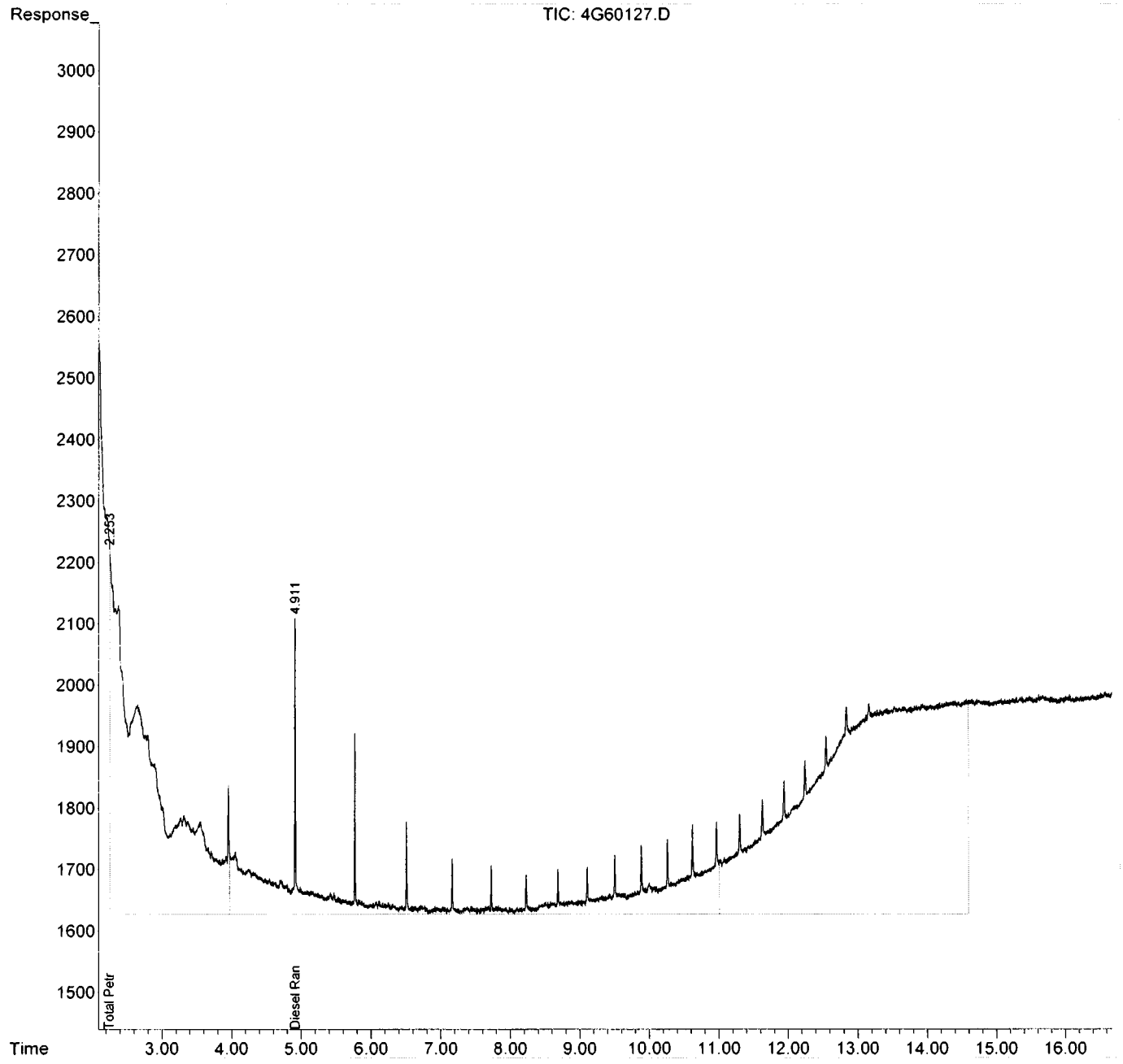
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)mt	C8	0.000	0	N.D.	d
2)mte	C9	0.000	0	N.D.	d
3)mdte	C10	0.000	0	N.D.	d
4)mdte	C12	0.000	0	N.D.	d
5)mdte	C14	0.000	0	N.D.	d
6)dte	C16	0.000	0	N.D.	d
7)dte	C17	0.000	0	N.D.	d
8)dte	Pristane	0.000	0	N.D.	d
9)dte	C18	0.000	0	N.D.	d
10)dte	Phytane	0.000	0	N.D.	d
11)dte	C20	0.000	0	N.D.	d
12)dte	C22	0.000	0	N.D.	d
13)dte	C24	0.000	0	N.D.	d
14)dte	C26	0.000	0	N.D.	d
15)dte	C28	0.000	0	N.D.	d
16)te	C30	0.000	0	N.D.	d
17)te	C32	0.000	0	N.D.	d
18)te	C34	0.000	0	N.D.	d
19)te	C36	0.000	0	N.D.	d
20)t	C40	0.000	0	N.D.	d
21)	Chlorobenzene	0.000	0	N.D.	d
22)	O-Terphenyl	0.000	0	N.D.	d
23)d	Diesel Range Organics(T	4.911	132336	3.018	m
24)t	Total Petroleum Hydroca	2.253	886357	19.906	m
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.	d
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.	d
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.	d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2018\GC_4\Data\03-01-18\
Data File : 4G60127.D
Signal(s) : FID1A.CH
Acq On : 1 Mar 2018 10:53
Operator : RAK/AH
Sample : INST BLK
Misc : A.TPH
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 01 11:18:03 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form3
Recovery Data Laboratory Limits
QC Batch: WMB66104

	Data File	Sample ID:	Analysis Date
Spike or Dup:	4G60122.D	WMB66104(MS)	2/28/2018 11:52:00 AM
Non Spike(If applicable):			
Inst Blank(If applicable):	4G60120.D	INST BLK	2/28/2018 10:48:00 AM

Method: 8015 Matrix: Aqueous QC Type: MBS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	2643.05	0	3000	88	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Data Path : G:\Gcdata\2018\GC_4\Data\02-27-18\
Data File : 4G60122.D
Signal(s) : FID1A.CH
Acq On : 28 Feb 2018 11:52
Operator : RAK/AH
Sample : WMB66104(MS)
Misc : A.TPH
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 28 12:17:43 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

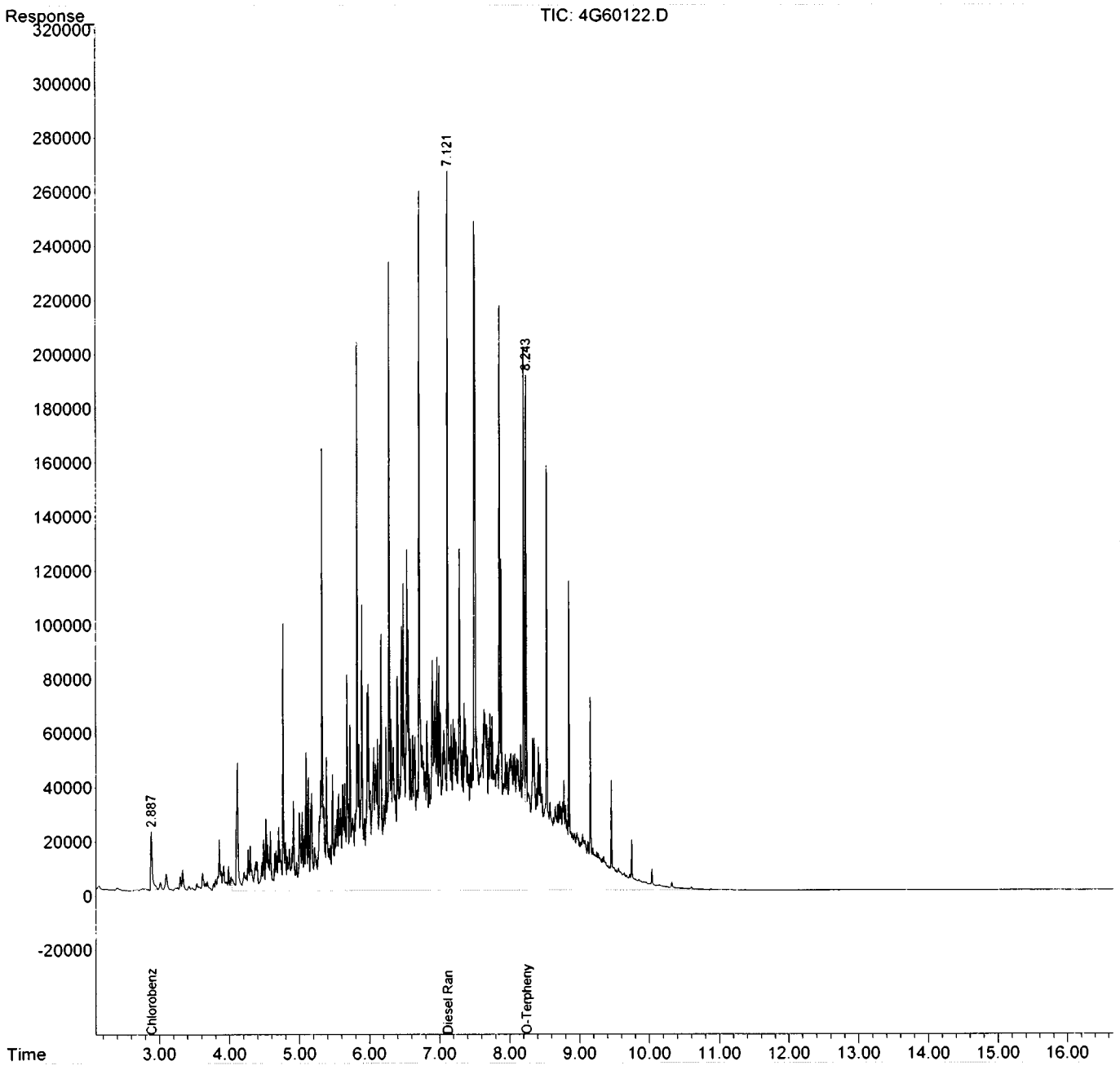
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)	Chlorobenzene	2.887	372092	19.187		
22)	O-Terphenyl	8.243	1141034	22.249		m
23)d	Diesel Range Organics(T	7.121f	116991538	2668.373		m
24)t	Total Petroleum Hydroca	0.000	0	N.D.		d
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2018\GC_4\Data\02-27-18\
Data File : 4G60122.D
Signal(s) : FID1A.CH
Acq On : 28 Feb 2018 11:52
Operator : RAK/AH
Sample : WMB66104(MS)
Misc : A.TPH
ALS Vial : 4 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Feb 28 12:17:43 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Form3
Recovery Data Laboratory Limits
QC Batch: WMB66104

	Data File	Sample ID:	Analysis Date
Spike or Dup:	4G60132.D	AD02791-001(MS)	3/1/2018 12:56:00 PM
Non Spike(If applicable):	4G60130.D	AD02791-001	3/1/2018 12:07:00 PM
Inst Blank(If applicable):	4G60127.D	INST BLK	3/1/2018 10:53:00 AM

Method: 8015 Matrix: Aqueous QC Type: MS

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	3644.06	1390.07	3000	75	40	130

	Data File	Sample ID:	Analysis Date
Spike or Dup:	4G60133.D	AD02791-001(MSD)	3/1/2018 1:21:00 PM
Non Spike(If applicable):	4G60130.D	AD02791-001	3/1/2018 12:07:00 PM
Inst Blank(If applicable):	4G60127.D	INST BLK	3/1/2018 10:53:00 AM

Method: 8015 Matrix: Aqueous QC Type: MSD

Analyte:	Col	Spike Conc	Sample Conc	Expected Conc	Recovery	Lower Limit	Upper Limit
Diesel Range Organics	1	3707.72	1390.07	3000	77	40	130

* - Indicates outside of limits # - Indicates outside of standard limits but within method exceedance limits

Form3
RPD Data Laboratory Limits
QC Batch: WMB66104

	Data File	Sample ID:	Analysis Date
Spike or Dup:	4G60133.D	AD02791-001(MSD)	3/1/2018 1:21:00 PM
Duplicate(If applicable):	4G60132.D	AD02791-001(MS)	3/1/2018 12:56:00 PM
Inst Blank(If applicable):	4G60127.D	INST BLK	3/1/2018 10:53:00 AM

Method: 8015 Matrix: Aqueous QC Type: MSD

Analyte:	Column	Dup/MSD/MBSD Conc	Sample/MS/MBS Conc	RPD	Limit
Diesel Range Organics	1	3707.72	3644.06	1.7	40

* - Indicates outside of limits NA - Both concentrations=0... no result can be calculated

Data Path : G:\Gcdata\2018\GC_4\Data\03-01-18\
Data File : 4G60130.D
Signal(s) : FID1A.CH
Acq On : 1 Mar 2018 12:07
Operator : RAK/AH
Sample : AD02791-001
Misc : A.TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 01 12:28:43 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)	Chlorobenzene	2.883	269422	13.893		
22)	O-Terphenyl	8.240	915761	17.856		m
23)d	Diesel Range Organics(T	8.240f	61861368	1410.950		m
24)t	Total Petroleum Hydroca	8.240f	66383145	1490.832		m
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

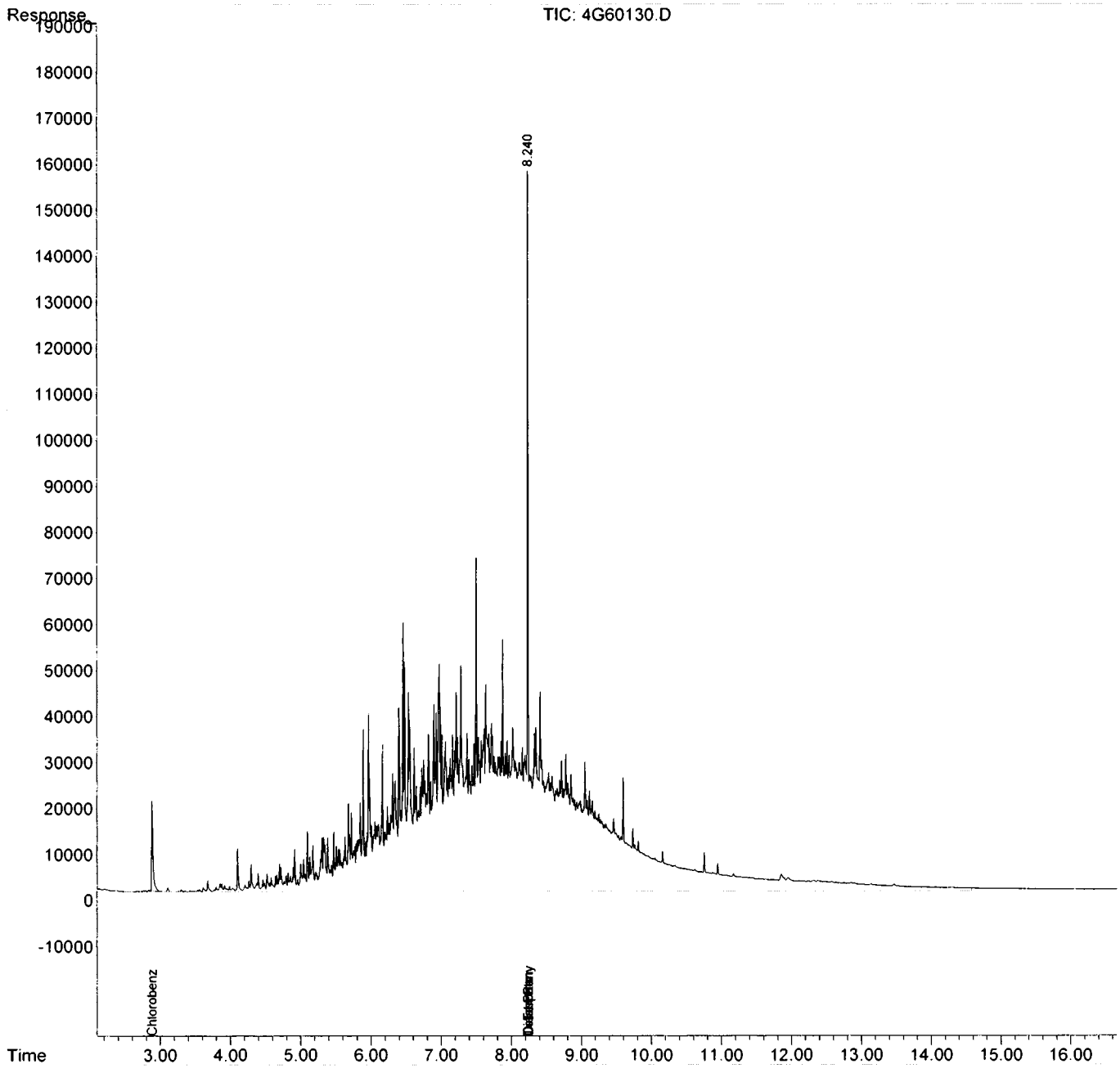
(f)=RT Delta > 1/2 Window (m)=manual int.



Data Path : G:\Gcdata\2018\GC_4\Data\03-01-18\
Data File : 4G60130.D
Signal(s) : FID1A.CH
Acq On : 1 Mar 2018 12:07
Operator : RAK/AH
Sample : AD02791-001
Misc : A.TPH
ALS Vial : 5 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 01 12:28:43 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2018\GC_4\Data\03-01-18\
Data File : 4G60132.D
Signal(s) : FID1A.CH
Acq On : 1 Mar 2018 12:56
Operator : RAK/AH
Sample : AD02791-001(MS)
Misc : A.TPH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 01 13:24:31 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

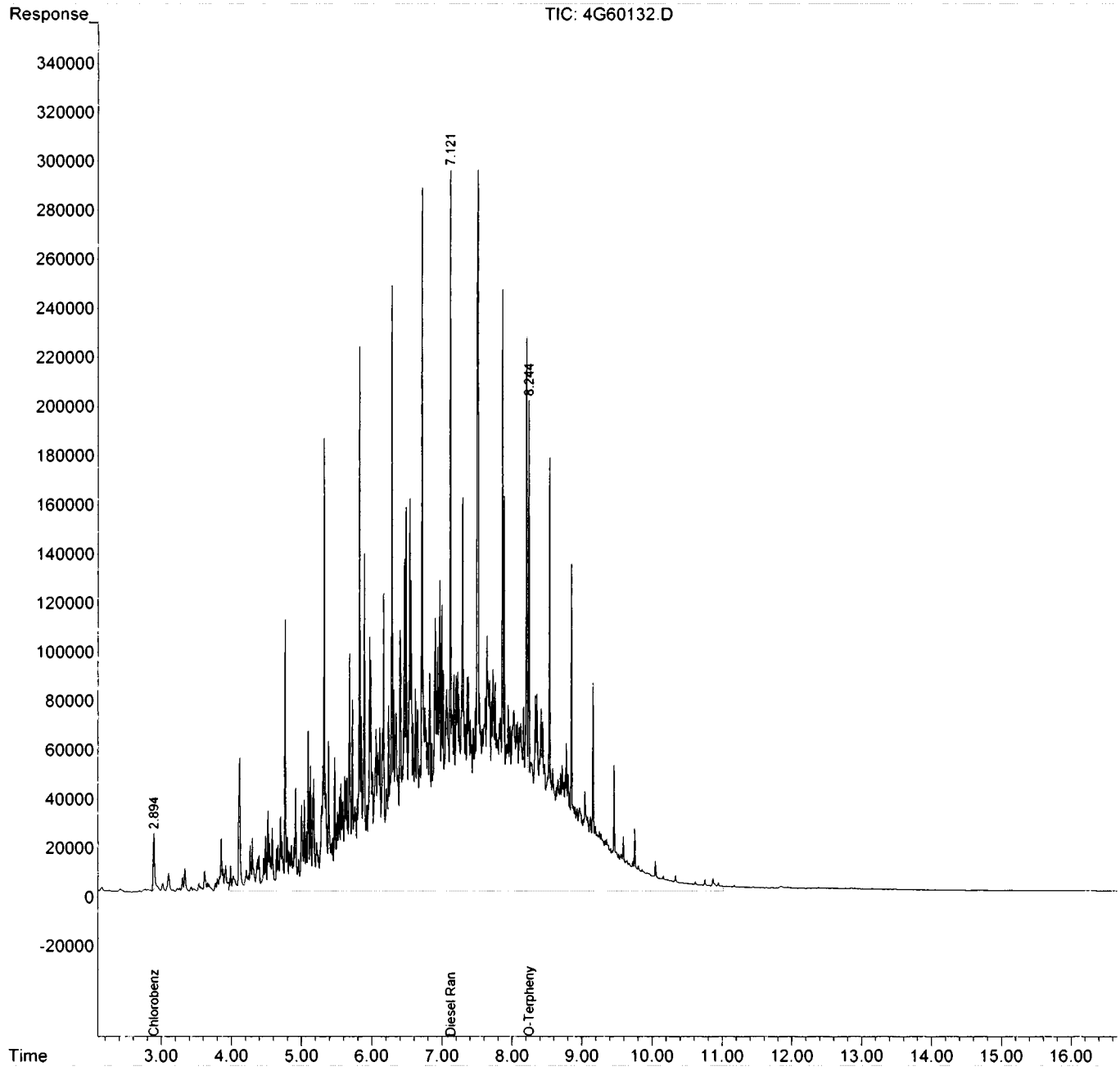
	Compound	R.T.	Response	Conc	Units
Target Compounds					
1)mt	C8	0.000	0	N.D.	d
2)mte	C9	0.000	0	N.D.	d
3)mdte	C10	0.000	0	N.D.	d
4)mdte	C12	0.000	0	N.D.	d
5)mdte	C14	0.000	0	N.D.	d
6)dte	C16	0.000	0	N.D.	d
7)dte	C17	0.000	0	N.D.	d
8)dte	Pristane	0.000	0	N.D.	d
9)dte	C18	0.000	0	N.D.	d
10)dte	Phytane	0.000	0	N.D.	d
11)dte	C20	0.000	0	N.D.	d
12)dte	C22	0.000	0	N.D.	d
13)dte	C24	0.000	0	N.D.	d
14)dte	C26	0.000	0	N.D.	d
15)dte	C28	0.000	0	N.D.	d
16)te	C30	0.000	0	N.D.	d
17)te	C32	0.000	0	N.D.	d
18)te	C34	0.000	0	N.D.	d
19)te	C36	0.000	0	N.D.	d
20)t	C40	0.000	0	N.D.	d
21)	Chlorobenzene	2.894	306136	15.786	
22)	O-Terphenyl	8.244	1099184	21.433	m
23)d	Diesel Range Organics(T	7.121f	160841107	3668.505	m
24)t	Total Petroleum Hydroca	0.000	0	N.D.	d
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.	d
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.	d
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.	d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2018\GC_4\Data\03-01-18\
Data File : 4G60132.D
Signal(s) : FID1A.CH
Acq On : 1 Mar 2018 12:56
Operator : RAK/AH
Sample : AD02791-001(MS)
Misc : A.TPH
ALS Vial : 7 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 01 13:24:31 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



Data Path : G:\Gcdata\2018\GC_4\Data\03-01-18\
Data File : 4G60133.D
Signal(s) : FID1A.CH
Acq On : 1 Mar 2018 13:21
Operator : RAK/AH
Sample : AD02791-001(MSD)
Misc : A.TPH
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 01 13:39:35 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :

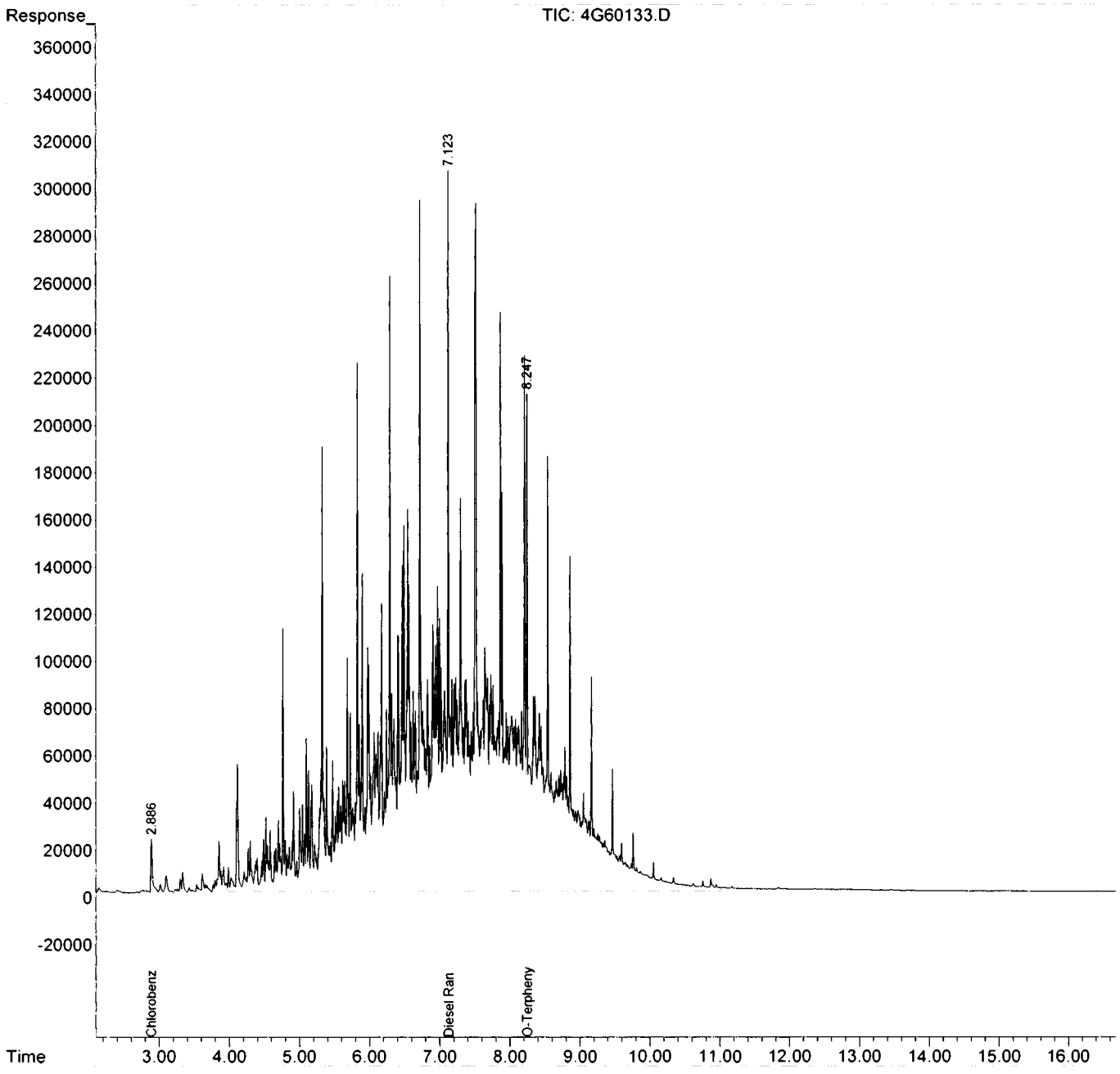
	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1)mt	C8	0.000	0	N.D.		d
2)mte	C9	0.000	0	N.D.		d
3)mdte	C10	0.000	0	N.D.		d
4)mdte	C12	0.000	0	N.D.		d
5)mdte	C14	0.000	0	N.D.		d
6)dte	C16	0.000	0	N.D.		d
7)dte	C17	0.000	0	N.D.		d
8)dte	Pristane	0.000	0	N.D.		d
9)dte	C18	0.000	0	N.D.		d
10)dte	Phytane	0.000	0	N.D.		d
11)dte	C20	0.000	0	N.D.		d
12)dte	C22	0.000	0	N.D.		d
13)dte	C24	0.000	0	N.D.		d
14)dte	C26	0.000	0	N.D.		d
15)dte	C28	0.000	0	N.D.		d
16)te	C30	0.000	0	N.D.		d
17)te	C32	0.000	0	N.D.		d
18)te	C34	0.000	0	N.D.		d
19)te	C36	0.000	0	N.D.		d
20)t	C40	0.000	0	N.D.		d
21)	Chlorobenzene	2.887	371113	19.137		
22)	O-Terphenyl	8.247	1148724	22.399		m
23)d	Diesel Range Organics(T	7.123f	163674973	3733.141		m
24)t	Total Petroleum Hydroca	0.000	0	N.D.		d
25)e	Ext. Petroleum Hydrocar	0.000	0	N.D.		d
26)m	Mineral Spirits(TOTAL)	0.000	0	N.D.		d
27)m	Stoddard Solvent(TOTAL)	0.000	0	N.D.		d

(f)=RT Delta > 1/2 Window (m)=manual int.

Data Path : G:\Gcdata\2018\GC_4\Data\03-01-18\
Data File : 4G60133.D
Signal(s) : FID1A.CH
Acq On : 1 Mar 2018 13:21
Operator : RAK/AH
Sample : AD02791-001(MSD)
Misc : A.TPH
ALS Vial : 8 Sample Multiplier: 1

Integration File: autoint1.e
Quant Time: Mar 01 13:39:35 2018
Quant Method : G:\GCDATA\2018\GC_4\METHODQT\4G_T0123.M
Quant Title : @GC_4,mg,8015
QLast Update : Tue Jan 23 13:06:36 2018
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. :
Signal Phase :
Signal Info :



8022605 0468

GC TPH Data
Logbook Data

QC66104

Hampton-Clarke

Analysis: TPH Extraction (8015B, E-TPH, QAM025)

Method Blank No. _____ Date: 2/28/18
Blank Spike : _____ Matrix Spike: 66104
Blank Spike : _____ Matrix Spike: _____
Start Ext. Time: 8:30 AM, 4:30pm NEvap/SEvap Used: 6
End Ext. Time: 11:30 AM; 10:00pm Shaker Used: 6
Recirculator: Start temp: 15.1C Condenser Flow: 2500 CCM
End temp: 15.1C

Sample Number	No. in Batch	Initial Volume	Final Volume	Extracted By	Comments Balance Used:
MB 66104	1	1000 ml	1.0 ml	DYR	/ /
MBS 66104	2	↓	↓	↓	/ /
AD 02646-004	R	↓	↓	↓	/ /
MS02791-001	x	500 ml	1 ml	SIM	/ /
MSD02791-001	x	↓	↓	↓	/ /
AD02791-001	1	↓	0.5 ml	↓	/ /
-002	2	900 ml	1 ml	↓	/ /
-003	3	↓	↓	↓	/ /
AD02799-002	4	1000 ml	↓	↓	/ /
					/ /
					/ /
					/ /
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Cleanup: Acid ___ TBA ___ Copper ___ Florisil ___ Other ___

Spike Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
50	60000	11174	TPH SPK

Surrogate Standard

Vol (ul's)	Conc. (ppm/ppb)	Lot No.	
100	200	272454	TPH SURR

Reagent Lots: MeCL2 11493 Acetone _____ Hexane _____ Na2SO4 11486 Ether ____
MTBE _____ Other _____

Relinquished By: DYR/SIM Date: 2/28/18
Received By: _____ Date: 2/28/18

T:\QC\FORMS\LOGBOOK FORMS\extractions\TPH Soil-Water Ext Log 2016.doc

RUN LOG

Instrument: GC_4 Year: 2018
Analyst: RAK/AH

1-1-4G59684

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
4G59684.D	INST BLK	CnS8	NOT USED	RAK 01/23/18		Soil	1	1	8015	01/23 08:39
4G59685.D	CAL TPH@20PPM	C18	NOT USED	RAK 01/23/18		Soil	1	1	8015	01/23 09:04
4G59686.D	CAL TPH@20PPM	C18	NOT USED	RAK 01/23/18		Soil	1	1	8015	01/23 09:29
4G59687.D	CAL TPH@500PPM		OK,OK B-24381	RAK 01/23/18		Soil	1	1	8015	01/23 09:58
4G59688.D	CAL TPH@100PPM		OK,OK B-24381	RAK 01/23/18		Soil	1	1	8015	01/23 10:23
4G59689.D	CAL TPH@40PPM		OK,OK B-24381	RAK 01/23/18		Soil	1	1	8015	01/23 10:48
4G59690.D	CAL TPH@20PPM		OK,OK B-24381	RAK 01/23/18		Soil	1	1	8015	01/23 11:13
4G59691.D	CAL TPH@10PPM		OK,OK B-24381	RAK 01/23/18		Soil	1	1	8015	01/23 11:38
4G59692.D	CAL TPH@5PPM		OK,OK B-24381	RAK 01/23/18		Soil	1	1	8015	01/23 12:02
4G59693.D	ICVTPH@20PPM	Cme	OK,OK V-271740	RAK 01/23/18		Soil	1	1	8015	01/23 13:11
4G59694.D	20PPM	Cme	NOT USED	RAK 01/23/18		Soil	1	1	8015	01/23 13:47
4G59695.D	TEST	Cme	NOT USED	RAK 01/23/18		Soil	1	1	8015	01/23 14:12
4G59696.D	TEST	Cme	NOT USED	RAK 01/23/18		Soil	1	1	8015	01/23 14:41
4G59697.D	TEST	Cme	NOT USED	RAK 01/23/18		Soil	1	1	8015	01/23 15:18

Anc	Area Not Checked	Fo	Extraction Performed Past Hold	Co	Warnion Possible Carry Over
Ao	Area Out	Fsm	Solvent Extraction Date Missing/Not check'd	CRN	Warnion c30/c20 not checked
B6m	Blank 600 series missing	Fto	Tclp/Solvent Extraction Date Missing/Not check'd	Cro	C30/C20 failed for eoh
B8m	Blank 8000 series missing	Flo	Tclp Extraction Performed Outside of Hold	FvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Fv	Eval Time Exceeded	Fvnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Fvrc	Eval Mix missing ddl or enddo
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rod Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rod Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Rto	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmd.csv for init calibration chek ds	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

Instrument: GC_4 Year: 2018
Analyst: RAK/AH

1-1-4G60086

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
4G60086.D	INST BLK	CnS8	NOT USED	RAK 02/27/18		Aqueous	1	1	8015	02/27 09:23
4G60087.D	CAL TPH@20PPM		OK V-271732	RAK 02/27/18		Aqueous	1	1	8015	02/27 09:47
4G60088.D	INST BLK	S8	OK	RAK 02/27/18		Aqueous	1	1	8015	02/27 10:13
4G60089.D	02646-004	S8	NOT USD	RAK 02/27/18		Aqueous	1	1	8015	02/27 10:38
4G60090.D	AD02646-002	Eo	OK	RAK 02/27/18	8015-C10-C2	Aqueous	1	1	8015	02/27 11:02
4G60091.D	AD02646-005	Eo	OK	RAK 02/27/18	8015-C10-C2	Aqueous	1	1	8015	02/27 11:27
4G60092.D	TEST	S8	NOT USED	RAK 02/27/18		Aqueous	1	1	8015	02/27 11:51
4G60093.D	CAL TPH@20PPM		OK	RAK 02/27/18,RAK 02/28/18		Aqueous	1	1	8015	02/27 12:16
4G60094.D	20PPM		OK	RAK 02/28/18		Aqueous	1	1	8015	02/27 15:23
4G60095.D	INST BLK	S8	OK	RAK 02/28/18		Soil	1	1	8015	02/27 15:48
4G60096.D	SMB66092		OK	RAK 02/28/18		Soil	1	1	8015	02/27 16:12
4G60097.D	SMB66093		OK	RAK 02/28/18		Soil	1	1	8015	02/27 16:37
4G60098.D	SMB66092(MS)		OK SMB66092	RAK 02/28/18		Soil	1	1	8015	02/27 17:02
4G60099.D	SMB66093(MS)		OK SMB66093	RAK 02/28/18		Soil	1	1	8015	02/27 17:27
4G60100.D	AD02746-002		OK SMB66092	RAK 02/28/18	8015-C8-C40	Soil	1	1	8015	02/27 17:52
4G60101.D	AD02746-004		OK	RAK 02/28/18	8015-C8-C40	Soil	1	1	8015	02/27 18:16
4G60102.D	AD02746-012		OK	RAK 02/28/18	8015-C8-C40	Soil	1	1	8015	02/27 18:41
4G60103.D	AD02746-010		OK	RAK 02/28/18	8015-C8-C40	Soil	1	1	8015	02/27 19:06
4G60104.D	AD02746-008		OK	RAK 02/28/18	8015-C8-C40	Soil	1	1	8015	02/27 19:31
4G60105.D	AD02746-006		OK	RAK 02/28/18	8015-C8-C40	Soil	1	1	8015	02/27 19:56
4G60106.D	AD02746-002(MS)		OK SMB66092	RAK 02/28/18	8015-C8-C40	Soil	1	1	8015	02/27 20:20
4G60107.D	AD02746-002(MSD)		OK SMB66092	RAK 02/28/18	8015-C8-C40	Soil	1	1	8015	02/27 20:45
4G60108.D	AD02798-014(MS)		OK SMB66093	RAK 02/28/18	8015-C8-C40	Soil	1	1	8015	02/27 21:09
4G60109.D	AD02798-014(MSD)		OK SMB66093	RAK 02/28/18	8015-C8-C40	Soil	1	1	8015	02/27 21:34
4G60110.D	AD02774-002		OK	RAK 02/28/18	8015-C8-C40	Soil	1	1	8015	02/27 21:58
4G60111.D	AD02774-004		OK	RAK 02/28/18	8015-C8-C40	Soil	1	1	8015	02/27 22:23
4G60112.D	AD02774-006		OK	RAK 02/28/18	8015-C8-C40	Soil	1	1	8015	02/27 22:47
4G60113.D	20PPM		OK	RAK 02/28/18		Soil	1	1	8015	02/27 23:12
4G60114.D	CAL TPH@20PPM		OK	RAK 02/28/18		Soil	1	1	8015	02/27 23:36
4G60115.D	INST BLK	S8	OK	RAK 02/28/18		Soil	1	1	8015	02/28 08:30
4G60116.D	AD02798-014		OK SMB66093	RAK 02/28/18	8015-C8-C40	Soil	1	1	8015	02/28 08:55
4G60117.D	AD02798-012		OK	RAK 02/28/18	8015-C8-C40	Soil	1	1	8015	02/28 09:19
4G60118.D	20PPM		NOT USED	RAK 02/28/18		Soil	1	1	8015	02/28 09:44
4G60119.D	CAL TPH@20PPM		OK	RAK 02/28/18		Soil	1	1	8015	02/28 10:09
4G60120.D	INST BLK	S8	OK	RAK 02/28/18		Aqueous	1	1	8015	02/28 10:48
4G60121.D	WMB66104		OK	RAK 02/28/18		Aqueous	1	1	8015	02/28 11:28
4G60122.D	WMB66104(MS)		OK WMB66104	RAK 02/28/18		Aqueous	1	1	8015	02/28 11:52
4G60123.D	AD02646-004(R)	Eo	OK	RAK 02/28/18	8015-C10-C2	Aqueous	1	1	8015	02/28 12:17
4G60124.D	CAL TPH@20PPM		OK	RAK 02/28/18		Aqueous	1	1	8015	02/28 12:42

Anc	Area Not Checked	Eo	Extraction Performed Past Hold	Co	Warning Possible Carry Over
Ao	Area Out	Esm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Etn	Tcln/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for enh
B8m	Blank 8000 series missing	Etn	Tcln Extraction Performed Outside of Hold	FvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Ev	Eval Time Exceeded	Fvnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hb	Analysis Before Collection Date	Fvrc	Eval Mix missing ddl or endop
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Ro	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rtn	Can't Calculate Ddft
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calrpt.csv for init calibration chek rls	S6	600 series surrogate out
Cme	Ending Cal missing for sample (8000 series)	Iw	Initial cal warning, tol cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6,Sb6	Acid and or BN Surrogate Out (600 series)

RUN LOG

1-1-4G60125

Instrument: GC_4 Year: 2018
Analyst: RAK/AH

Data File	Sample Number	Flags	Comments	Reviewed By	Test Group	Matrix	Surr Dil	Sam Dil	Method(s)	Analysis Date
4G60125.D	INST BLK	CnS8	NOT USED	RAK 03/01/18		Aqueous	1	1	8015	03/01 10:00
4G60126.D	CAL TPH@20PPM		OK V-271732	RAK 03/01/18		Aqueous	1	1	8015	03/01 10:25
4G60127.D	INST BLK	S8	OK	RAK 03/01/18		Aqueous	1	1	8015	03/01 10:53
4G60128.D	AD02791-003		OK	RAK 03/01/18	8015-C8-C40	Aqueous	1	1	8015	03/01 11:18
4G60129.D	AD02791-002		OK	RAK 03/01/18	8015-C8-C40	Aqueous	1	1	8015	03/01 11:43
4G60130.D	AD02791-001		OK WMB66104	RAK 03/01/18	8015-C8-C40	Aqueous	1	1	8015	03/01 12:07
4G60131.D	AD02799-002		OK	RAK 03/01/18	8015-C8-C40	Aqueous	1	1	8015	03/01 12:32
4G60132.D	AD02791-001(MS)		OK WMB66104	RAK 03/01/18	8015-C8-C40	Aqueous	1	1	8015	03/01 12:56
4G60133.D	AD02791-001(MSD)		OK WMB66104	RAK 03/01/18	8015-C8-C40	Aqueous	1	1	8015	03/01 13:21
4G60134.D	TEST	S8	NOT USED	RAK 03/01/18		Aqueous	1	1	8015	03/01 13:46
4G60135.D	02799-002		OK	RAK 03/01/18		Aqueous	1	1	8015	03/01 14:11
4G60136.D	CAL TPH@20PPM		OK	RAK 03/01/18		Aqueous	1	1	8015	03/01 14:35

Anc	Area Not Checked	Fn	Extraction Performed Past Hold	Cn	Warning Possible Carry Over
Ao	Area Out	Fsm	Solvent Extraction Date Missing/Not check'd	CRN	Warning c30/c20 not checked
B6m	Blank 600 series missing	Ftn	Tclp/Solvent Extraction Date Missing/Not check'd	Cm	C30/C20 failed for enh
B8m	Blank 8000 series missing	Fto	Tclp Extraction Performed Outside of Hold	FvF	Eval Mix Failed
Bnf	Blank Not Found/Assigned	Fv	Eval Time Exceeded	Evnc	Eval Mix Not Checked
C16	Calibration Column 1 Out (600 Series)	Hh	Analysis Before Collection Date	Evrc	Eval Mix missing ddt or eodpp
C18	Calibration Column 1 Out (8000 Series)	Ho	Sample Analyzed outside of hold time	R16 R26	Rpd Out on MsMsd (col1 and or col2) 600 series
C26	Calibration Column 2 Out (600 Series)	I16 I26	Initial cal 600 series failed Column 1 and or 2	R18 R28	Rpd Out on MsMsd (col1 and or col2) 8000 series
C28	Calibration Column 2 Out (8000 Series)	I18 I28	Initial cal 8000 series failed Column 1 and or 2	Rn	Retention Time Out Or %Diff Out
C6f	600 series sample/blank did not have passing cal	Is	Initial Cal Not Checked	Rto	Can't Calculate Drift
C8f	8000 series sample/blank did not have passing cal	Iv	Prob with calmd csv for init calibration chek rls	S6	600 series surrogate out
Cme	Endrin Cal missing for sample (8000 series)	Iw	Initial cal warning Ini cal file <> method	S8	8000 series surrogate out
Cn	Calibration Not Checked for sample/blank/eval	Ix	Initial Cal Files Not Updated Properly for a sampl	Sa6 Sb6	Acid and or BN Surrogate Out (600 series)

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-271623

Prepared By: Akoentry, Regina
Description: TPH Surrogate Std. For Cal. Curve
Prep Date: 1/19/2018
Expiration Date: 5/31/2018
Department: Organics
BatchNumber:
Concentration: 1000 ppm
Final Volume: 50 ml
ApprovedBy: akmal
ApproveDate: 01/29/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
7749	O-Terphenyl	50 mg	neat neat	1000 ppm
11329	Methylene Chloride	50 ml	neat neat	
10702	Chlorobenzene	50 mg	NEAT neat	1000 ppm

Veritech Lot Number: V-271728

Prepared By: Akoentry, Regina
Description: TPH CAL CURVE 500
Prep Date: 1/19/2018
Expiration Date: 5/31/2018
Department: Organics
BatchNumber: B-24381
Concentration: 500 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 01/29/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271623	TPH Surrogate Std. For Cal. Curve	500 ul	1000 ppm	500 ppm
10858	Custom Alkanes Mix	500 ul	1000 ppm	500 ppm

Veritech Lot Number: V-271729

Prepared By: Akoentry, Regina
Description: TPH CAL CURVE 100
Prep Date: 1/19/2018
Expiration Date: 5/31/2018
Department: Organics
BatchNumber: B-24381
Concentration: 100 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 01/29/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271728	TPH CAL CURVE 500	200 ul	500 ppm	100 ppm
11329	Methylene Chloride	800 ul	neat neat	

Veritech Lot Number: V-271730

Prepared By: Akoentry, Regina
Description: TPH CAL CURVE 40
Prep Date: 1/19/2018
Expiration Date: 5/31/2018
Department: Organics
BatchNumber: B-24381
Concentration: 40 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 01/29/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271728	TPH CAL CURVE 500	80 ul	500 ppm	40 ppm
11329	Methylene Chloride	920 ul	neat neat	

Veritech Lot Number: V-271731

Prepared By: Akoentry, Regina
Description: TPH CAL CURVE 10
Prep Date: 1/19/2018
Expiration Date: 5/31/2018
Department: Organics
BatchNumber: B-24381
Concentration: 10 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 01/29/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271728	TPH CAL CURVE 500	20 ul	500 ppm	10 ppm
11329	Methylene Chloride	980 ul	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-271732

Prepared By: Akoentry, Regina
Description: TPH CAL CURVE 20
Prep Date: 1/19/2018
Expiration Date: 5/31/2018
Department: Organics
BatchNumber: B-24381
Concentration: 20 ppm
Final Volume: 4 ml
ApprovedBy: akmal
ApproveDate: 01/29/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271728	TPH CAL CURVE 500	160 ul	500 ppm	20 ppm
11329	Methylene Chloride	3840 ul	neat neat	

Veritech Lot Number: V-271733

Prepared By: Akoentry, Regina
Description: TPH CAL CURVE 5
Prep Date: 1/19/2018
Expiration Date: 5/31/2018
Department: Organics
BatchNumber: B-24381
Concentration: 5 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 01/29/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-271728	TPH CAL CURVE 500	10 ul	500 ppm	5 ppm
11329	Methylene Chloride	990 ul	neat neat	

Veritech Lot Number: V-271740

Prepared By: Akoentry, Regina
Description: ICV-TPH STD
Prep Date: 1/19/2018
Expiration Date: 5/31/2018
Department: Organics
BatchNumber:
Concentration: 20 ppm
Final Volume: 1 ml
ApprovedBy: akmal
ApproveDate: 01/29/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
10859	Custom Alkanes Mix	20 ul	1000 ppm	20 ppm
11329	Methylene Chloride	960 ul	neat neat	
V-271623	TPH Surrogate Std. For Cal. Curve	20 ul	1000 ppm	20 ppm

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 7749

Description: O-Terphenyl

ApprovedBy: akmal
ApproveDate: 03/01/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	T2800-25G	MKBJ3853V	02/28/13	12/31/23	Hamid, Akmal	1	25g	neat	neat

Veritech Control/Receipt Number: 10702

Description: Chlorobenzene

ApprovedBy: akmal
ApproveDate: 01/17/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SIGMA-ALDRICH	08650-5ML-F	BCBQ2393V	01/16/17	05/31/18	Hamid, Akmal	1	5ML	NEAT	NEAT

Veritech Control/Receipt Number: 10858

Description: Custom Alkanes Mix

ApprovedBy: akmal
ApproveDate: 03/30/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Spex Certiprep	ALKANE-20-MIX	E1140911011	03/30/17	03/28/20	Hamid, Akmal	5	1ML	1000	PPM

Veritech Control/Receipt Number: 10859

Description: Custom Alkanes Mix

ApprovedBy: akmal
ApproveDate: 03/30/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Spex Certiprep	ALKANE-20-MIX	E1140917007	03/30/17	03/28/20	Hamid, Akmal	2	1ML	1000	PPM

Veritech Control/Receipt Number: 11329

Description: Methylene Chloride

ApprovedBy: akmal
ApproveDate: 12/18/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9264-03	176216	12/14/17	09/06/18	Lopez, Jose	160	4L	neat	neat

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-272454

Prepared By:	Hamid, Akmal	Department:	Organics	ApprovedBy:	akmal
Description:	TPH SURR STD	BatchNumber:		ApproveDate:	02/02/18
Prep Date:	2/1/2018	Concentration:	200 ppm	Checked:	Yes
Expiration Date:	5/31/2018	Final Volume:	1000 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
10702	Chlorobenzene	.2 g	NEAT neat	200 ppm
7749	O-Terphenyl	.2 g	neat neat	200 ppm
11369	Acetone	1000 ml	neat neat	neat neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 7749

Description: O-Terphenyl

ApprovedBy: akmal
ApproveDate: 03/01/13
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
Sigma-Aldrich	T2800-25G	MKBJ3853V	02/28/13	12/31/23	Hamid, Akmal	1	25g	neat	neat

Veritech Control/Receipt Number: 10702

Description: Chlorobenzene

ApprovedBy: akmal
ApproveDate: 01/17/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SIGMA-ALDRICH	08650-5ML-F	BCBQ2393V	01/16/17	05/31/18	Hamid, Akmal	1	5ML	NEAT	NEAT

Veritech Control/Receipt Number: 11369

Description: Acetone

ApprovedBy: akmal
ApproveDate: 01/05/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9254-03	176288	01/03/18	05/08/20	Lopez, Jose	32	4L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11174

Description
Diesel Fuel

ApprovedBy: akmal
ApproveDate: 09/26/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
SPEX	S-DF2-60K	EN160407006	08/18/17	08/16/20	Revolus, Jean	25	1ml	60000	PPM

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11486

Description
sodium sulfate

ApprovedBy: akmal
ApproveDate: 02/12/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
seidler	SC-3375-1C	725103	02/12/18	02/12/22	Burwell, John	4	100 L	neat	neat

Veritech Control/Receipt Number: 11493

Description
Methylene Chloride

ApprovedBy: akmal
ApproveDate: 02/16/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume/ Cont	Conc:	Units:
J.T.Baker	9264-03	176216	02/16/18	09/06/18	Lopez, Jose	52	4L	neat	neat

8022605 0480

Metal Data

Metal Data
Sample Data

Form1
Inorganic Analysis Data Sheet

Sample ID:	AD02799-002	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	WC_02232018	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	2/26/2018	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	1000	1	50	50	02/28/18	66498	W22208C2	27	P	PEICP2A
7440-39-3	Barium	50	290	1	50	50	02/28/18	66498	W22208C2	27	P	PEICP2A
7440-70-2	Calcium	5000	160000	1	50	50	02/28/18	66498	W22208C2	27	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	02/28/18	66498	W22208C2	27	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	02/28/18	66498	W22208C2	27	P	PEICP2A
7439-89-6	Iron	300	3700	1	50	50	02/28/18	66498	W22208C2	27	P	PEICP2A
7439-95-4	Magnesium	5000	130000	1	50	50	02/28/18	66498	W22208C2	27	P	PEICP2A
7439-96-5	Manganese	40	270	1	50	50	02/28/18	66498	W22208C2	27	P	PEICP2A
7439-97-6	Mercury	0.50	ND	1	25	25	02/27/18	66498	H22208SW	25	CV	HGCV3A
7440-02-0	Nickel	50	ND	1	50	50	02/28/18	66498	W22208C2	27	P	PEICP2A
7440-09-7	Potassium	5000	34000	1	50	50	02/28/18	66498	W22208B2	42	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	02/28/18	66498	W22208C2	27	P	PEICP2A
7440-23-5	Sodium	10000	1100000	2	50	50	02/28/18	66498	W22213A2	37	P	PEICPRAD2A
7440-62-2	Vanadium	50	ND	1	50	50	02/28/18	66498	W22208C2	27	P	PEICP2A
7440-66-6	Zinc	50	72	1	50	50	02/28/18	66498	W22208C2	27	P	PEICP2A

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID:	AD02799-002	% Solid:	0	Lab Name:	Hampton-Clarke	Nras No:	
Client Id:	WC_02232018	Units:	UG/L	Lab Code:		Sdg No:	
Matrix:	AQUEOUS	Date Rec:	2/26/2018	Contract:		Case No:	
Level:	LOW						

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	3.0	ND	1	50	100	03/01/18	66498	A030118A	30	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	03/01/18	66498	A030118A	30	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	03/01/18	66498	A030118A	30	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	03/01/18	66498	A030118A	30	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	03/01/18	66498	A030118A	30	MS	MS2_7500SWA
7439-92-1	Lead	3.0	6.4	1	50	100	03/01/18	66498	A030118A	30	MS	MS2_7500SWA
7782-49-2	Selenium	10	ND	1	50	100	03/01/18	66498	A030118A	30	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	03/01/18	66498	A030118A	30	MS	MS2_7500SWA

Comments: _____

_____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Metal Data
QC Data

FORM 2
(ICV/CCV Summary)

Date Analyzed: 02/28/18
Data File: A022818A
Prep Batch: 66498
Analytical Method: 6010C/7470A,7471B,6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-274294-8	Rec	CCV V-274298-18	Rec	CCV V-274298-28	Rec	Rec	Rec	Rec	Rec	Rec
Antimony	50/50	45.80000	92	46.91000	94	48.58000	97					
Arsenic	50/50	50.32000	101	51.94000	104	50.63000	101					
Beryllium	50/50	47.01000	94	46.24000	92	47.54000	95					
Cadmium	50/50	47.65000	95	47.62000	95	48.82000	98					
Cobalt	50/50	48.09000	96	48.06000	96	48.53000	97					
Lead	50/50	45.31000	91	46.21000	92	47.35000	95					
Selenium	50/250	52.03000	104	260.90000	104	256.20000	102					
Thallium	50/50	47.12000	94	47.70000	95	48.62000	97					

Notes: a-indicates analyte failed the ICV limits for 6010C, 6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020A Except Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105)
CCV- 200.7/200.8/6010C/245.1 (90-110) Except Hg 7470A/ 7471B (80-120)
ICV - 6010C/6020A/200.8 (90-110)
ICP ICV/CCV (90-110)
Hg ICV/CCV (80-120)

FORM 2
(LLICV/LLCCV Summary)

Date Analyzed: 02/28/18
Data File: A022818A
Prep Batch: 66498
Analytical Method: 6010C/7470A,7471B,6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SPEX

Analyte	LLICV/ LLCCV Amt	LLICV V-274300-9	Rec	LLCCV V-274300-19	Rec	LLCCV V-274300-29	Rec	Rec	Rec	Rec	Rec	Rec
Antimony	1.5/1.5	1.248	83	1.158	77	1.148	77					
Arsenic	1/1	1.032	103	1.014	101	1.047	105					
Beryllium	0.5/0.5	5.021E-01	100	4.625E-01	92	4.878E-01	98					
Cadmium	1/1	9.673E-01	97	9.626E-01	96	9.403E-01	94					
Cobalt	1/1	1.029	103	9.622E-01	96	9.893E-01	99					
Lead	1.5/1.5	1.404	94	1.269	85	1.223	82					
Selenium	5/5	5.297	106	5.706	114	5.443	109					
Thallium	1/1	8.980E-01	90	8.494E-01	85	8.731E-01	87					

Notes: a-indicates analyte failed the LLICV limits for 6010C, 6020A
c-indicates analyte failed the LLCCV limits for 6010C, 6020A

Qc Limits: LLCCV- 6010C/6020A (70-130)
LLICV - 6010C/6020A (70-130)

FORM 2
(ICV/CCV Summary)

Date Analyzed: 02/28/18
Data File: SW22208A2
Prep Batch: 66498
Analytical Method: 6010C/7470A,7471B,6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-273563-7	Rec	CCV V-273563-12	Rec	CCV V-273563-23	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	5/5	4.94833	99	4.94237	99	4.95300	99					
Barium	.5/.5	0.49821	100	0.49411	99	0.49231	98					
Calcium	50/50	50.69680	101	50.61590	101	50.60070	101					
Chromium	.5/.5	0.50667	101	0.50284	101	0.50346	101					
Copper	.5/.5	0.51107	102	0.50306	101	0.50189	100					
Iron	5/5	5.03616	101	5.01283	100	5.01288	100					
Magnesium	50/50	50.89890	102	50.80950	102	50.77580	102					
Manganese	.5/.5	0.49879	100	0.49770	100	0.49760	100					
Nickel	.5/.5	0.50281	101	0.49780	100	0.49911	100					
Silver	0.1/0.1	0.09839	98	0.09772	98	0.09806	98					
Vanadium	.5/.5	0.49790	100	0.49450	99	0.49538	99					
Zinc	.5/.5	0.50513	101	0.50086	100	0.50146	100					

Notes: a-indicates analyte failed the ICV limits for 6010C, 6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020A Except Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105)
CCV- 200.7/200.8/6010C/245.1 (90-110) Except Hg 7470A/ 7471B (80-120)
ICV - 6010C/6020A/200.8 (90-110)
ICP ICV/CCV (90-110)
Hg ICV/CCV (80-120)

FORM 2
(LLICV/LLCCV Summary)

Date Analyzed: 02/28/18
Data File: SW22208A2
Prep Batch: 66498
Analytical Method: 6010C/7470A,7471B,6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SPEX

Analyte	LLICV/ LLCCV Amt	LLICV [aq] V-274418-8	Rec	LLCCV [aq] V-274418-13	Rec	LLCCV [aq] V-274418-24	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	0.2/0.2	0.218775	109	0.223129	112	0.221114	111					
Barium	0.05/0.05	0.0497915	100	0.0506294	101	0.0506722	101					
Calcium	5.0/5	5.05469	101	5.06124	101	5.09885	102					
Chromium	0.05/0.05	0.0506605	101	0.0511273	102	0.0512114	102					
Copper	0.05/0.05	0.0512756	103	0.0514793	103	0.0532859	107					
Iron	0.3/0.3	0.299797	100	0.305207	102	0.304690	102					
Magnesium	5.0/5	5.05797	101	5.11083	102	5.17506	104					
Manganese	0.04/0.04	0.0403117	101	0.0406075	102	0.0406859	102					
Nickel	0.05/0.05	0.0498582	100	0.0498667	100	0.0501175	100					
Silver	0.02/0.02	0.0198340	99	0.0198111	99	0.0201399	101					
Vanadium	0.05/0.05	0.0505601	101	0.0511673	102	0.0508605	102					
Zinc	0.05/0.05	0.0486540	97	0.0485043	97	0.0497317	99					

Notes: a-indicates analyte failed the LLICV limits for 6010C, 6020A
c-indicates analyte failed the LLCCV limits for 6010C, 6020A

Qc Limits: LLCCV- 6010C/6020A (70-130)
LLICV - 6010C/6020A (70-130)

FORM 2
(ICV/CCV Summary)

Date Analyzed: 02/28/18
Data File: SW22208B2
Prep Batch: 66498
Analytical Method: 6010C/7470A,7471B,6020A
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-273563-6	Rec	CCV V-273563-11	Rec	CCV V-273563-24	Rec	CCV V-273563-33	Rec	CCV V-273563-45	Rec	Rec	Rec	Rec
Potassium	50/50	50.18980	100	50.16140	100	50.36880	101	49.92100	100	50.80880	102			
Sodium	50/50	50.19160	100	50.75240	102	50.52810	101	50.00410	100	50.77280	102			

Notes: a-indicates analyte failed the ICV limits for 6010C, 6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020A Except Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105)
CCV- 200.7/200.8/6010C/245.1 (90-110) Except Hg 7470A/ 7471B (80-120)
ICV - 6010C/6020A/200.8 (90-110)
ICP ICV/CCV (90-110)
Hg ICV/CCV (80-120)

FORM 2
(LLICV/LLCCV Summary)

Date Analyzed: 02/28/18
Data File: SW22208B2
Prep Batch: 66498
Analytical Method: 6010C/7470A,7471B,6020A
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SPEX

Analyte	LLICV/ LLCCV Amt	LLICV [aq] V-274418-7	Rec	LLCCV [aq] V-274418-12	Rec	LLCCV [aq] V-274418-25	Rec	LLCCV [aq] V-274418-34	Rec	LLCCV [aq] V-274418-46	Rec		Rec		Rec		Rec
Potassium	5.0/5	5.10381	102	5.14818	103	5.18622	104	5.07539	102	5.18940	104						
Sodium	5.0/5	5.12493	102	5.14128	103	5.30802	106	5.24735	105	5.29955	106						

Notes: a-indicates analyte failed the LLICV limits for 6010C, 6020A
c-indicates analyte failed the LLCCV limits for 6010C, 6020A

Qc Limits: LLCCV- 6010C/6020A (70-130)
LLICV - 6010C/6020A (70-130)

FORM 2
(ICV/CCV Summary)

Date Analyzed: 02/28/18
Data File: SW22208C2
Prep Batch: 66498
Analytical Method: 6010C/7470A,7471B,6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-273563-7	Rec	CCV V-273563-18	Rec	CCV V-273563-30	Rec	CCV V-273563-42	Rec	Rec	Rec	Rec	Rec
Aluminum	5/5	4.92430	98	4.77972	96	4.81554	96	4.69811	94				
Barium	.5/.5	0.49541	99	0.48401	97	0.48398	97	0.47845	96				
Calcium	50/50	50.19710	100	49.17890	98	49.90400	100	48.76310	98				
Chromium	.5/.5	0.50498	101	0.49591	99	0.49385	99	0.48999	98				
Copper	.5/.5	0.50693	101	0.48173	96	0.48681	97	0.47908	96				
Iron	5/5	5.01095	100	4.92680	99	4.90839	98	4.88325	98				
Magnesium	50/50	50.34630	101	49.96460	100	50.11970	100	49.54580	99				
Manganese	.5/.5	0.49472	99	0.48694	97	0.49103	98	0.48362	97				
Nickel	.5/.5	0.49999	100	0.49448	99	0.48999	98	0.48375	97				
Silver	0.1/0.1	0.09824	98	0.09516	95	0.09604	96	0.09367	94				
Vanadium	.5/.5	0.49473	99	0.48340	97	0.48295	97	0.47773	96				
Zinc	.5/.5	0.49920	100	0.49896	100	0.48970	98	0.49039	98				

Notes: a-indicates analyte failed the ICV limits for 6010C, 6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020A Except Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105)
CCV- 200.7/200.8/6010C/245.1 (90-110) Except Hg 7470A/ 7471B (80-120)
ICV - 6010C/6020A/200.8 (90-110)

ICP ICV/CCV (90-110)
Hg ICV/CCV (80-120)

FORM 2
(LLICV/LLCCV Summary)

Date Analyzed: 02/28/18
Data File: SW22208C2
Prep Batch: 66498
Analytical Method: 6010C/7470A,7471B,6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SPEX

Analyte	LLICV/ LLCCV Amt	LLICV [aq] V-274418-8	Rec	LLCCV [aq] V-274418-19	Rec	LLCCV [aq] V-274418-31	Rec	LLCCV [aq] V-274418-43	Rec	Rec	Rec	Rec	Rec
Aluminum	0.2/0.2	0.225379	113	0.216971	108	0.210598	105	0.203968	102				
Barium	0.05/0.05	0.0512051	102	0.0512139	102	0.0497716	100	0.0494456	99				
Calcium	5.0/5	5.14966	103	5.11125	102	5.06042	101	5.05004	101				
Chromium	0.05/0.05	0.0514135	103	0.0516326	103	0.0503207	101	0.0506588	101				
Copper	0.05/0.05	0.0535379	107	0.0528871	106	0.0512565	103	0.0522896	105				
Iron	0.3/0.3	0.309610	103	0.311247	104	0.306389	102	0.307172	102				
Magnesium	5.0/5	5.13862	103	5.16449	103	5.10980	102	5.08083	102				
Manganese	0.04/0.04	0.0413793	103	0.0411891	103	0.0404904	101	0.0402760	101				
Nickel	0.05/0.05	0.0502426	100	0.0509950	102	0.0489050	98	0.0493087	99				
Silver	0.02/0.02	0.0203579	102	0.0197803	99	0.0198913	99	0.0191135	96				
Vanadium	0.05/0.05	0.0519864	104	0.0510148	102	0.0503259	101	0.0497288	99				
Zinc	0.05/0.05	0.0492353	98	0.0494768	99	0.0481797	96	0.0478444	96				

Notes: a-indicates analyte failed the LLICV limits for 6010C, 6020A
c-indicates analyte failed the LLCCV limits for 6010C, 6020A

Qc Limits: LLCCV- 6010C/6020A (70-130)
LLICV - 6010C/6020A (70-130)

FORM 2
(ICV/CCV Summary)

Date Analyzed: 02/28/18
Data File: SW22213A2
Prep Batch: 66498
Analytical Method: 6010C/7470A,7471B,6020A
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-273563-6	Rec	CCV V-273563-19	Rec	CCV V-273563-31	Rec	CCV V-273563-40	Rec	Rec	Rec	Rec	Rec
Sodium	50/50	49.07680	98	49.55770	99	50.89760	102	49.42080	99				

Notes:
a-indicates analyte failed the ICV limits for 6010C, 6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020A Except Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits:
ICV - 200.7 (95-105)
CCV- 200.7/200.8/6010C/245.1 (90-110) Except Hg 7470A/ 7471B (80-120)
ICV - 6010C/6020A/200.8 (90-110)
ICP ICV/CCV (90-110)
Hg ICV/CCV (80-120)

FORM 2
(LLICV/LLCCV Summary)

Date Analyzed: 02/28/18
Data File: SW22213A2
Prep Batch: 66498
Analytical Method: 6010C/7470A,7471B,6020A
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SPEX

Analyte	LLICV/ LLCCV Amt	LLICV [aq] V-274418-7	Rec	LLCCV [aq] V-274418-20	Rec	LLCCV [aq] V-274418-32	Rec	LLCCV [aq] V-274418-41	Rec	Rec	Rec	Rec	Rec
Sodium	5.0/5	5.02317	100	5.22119	104	5.28162	106	5.13923	103				

Notes: a-indicates analyte failed the LLICV limits for 6010C, 6020A
c-indicates analyte failed the LLCCV limits for 6010C, 6020A

Qc Limits: LLCCV- 6010C/6020A (70-130)
LLICV - 6010C/6020A (70-130)

FORM 2
(ICV/CCV Summary)

Date Analyzed: 03/01/18
Data File: A030118A
Prep Batch: 66498
Analytical Method: 6010C/7470A,7471B,6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

Analyte	ICV/CCV Amt	ICV V-274294-8	Rec	CCV V-274298-21	Rec	CCV V-274298-32	Rec	Rec	Rec	Rec	Rec	Rec
Antimony	50/50	49.70000	99	51.17000	102	50.09000	100					
Arsenic	50/50	50.36000	101	50.42000	101	49.26000	99					
Beryllium	50/50	51.30000	103	51.40000	103	51.41000	103					
Cadmium	50/50	51.48000	103	51.70000	103	50.56000	101					
Cobalt	50/50	49.56000	99	49.90000	100	48.76000	98					
Lead	50/50	49.03000	98	50.54000	101	49.95000	100					
Selenium	50/250	51.25000	102	254.80000	102	252.70000	101					
Thallium	50/50	50.13000	100	52.19000	104	51.52000	103					

Notes: a-indicates analyte failed the ICV limits for 6010C, 6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020A Except Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits: ICV - 200.7 (95-105)
CCV- 200.7/200.8/6010C/245.1 (90-110) Except Hg 7470A/ 7471B (80-120)
ICV - 6010C/6020A/200.8 (90-110)
ICP ICV/CCV (90-110)
Hg ICV/CCV (80-120)

FORM 2
(LLICV/LLCCV Summary)

Date Analyzed: 03/01/18
Data File: A030118A
Prep Batch: 66498
Analytical Method: 6010C/7470A,7471B,6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SPEX

Analyte	LLICV/ LLCCV Amt	LLICV V-274300-9	Rec	LLCCV V-274300-22	Rec	LLCCV V-274300-33	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Antimony	1.5/1.5	1.279	85	1.173	78	1.121	75						
Arsenic	1/1	1.016	102	1.008	101	9.289E-01	93						
Beryllium	0.5/0.5	5.465E-01	109	5.457E-01	109	5.049E-01	101						
Cadmium	1/1	1.005	100	1.022	102	1.005	100						
Cobalt	1/1	1.004	100	1.008	101	9.327E-01	93						
Lead	1.5/1.5	1.412	94	1.395	93	1.339	89						
Selenium	5/5	4.840	97	5.462	109	4.936	99						
Thallium	1/1	9.313E-01	93	9.503E-01	95	8.906E-01	89						

Notes: a-indicates analyte failed the LLICV limits for 6010C, 6020A
c-indicates analyte failed the LLCCV limits for 6010C, 6020A

Qc Limits: LLCCV- 6010C/6020A (70-130)
LLICV - 6010C/6020A (70-130)

FORM 2
(ICV/CCV Summary)

Date Analyzed: 02/27/18
Data File: H22208SW
Prep Batch: 66498
Analytical Method: 6010C/7470A,7471B,6020A
Instrument: HGCV3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICV/CCV SOURCE: SCP Science

		ICV (2)-9		CCV-20		CCV-26							
Analyte	ICV/CCV Amt		Rec		Rec		Rec	Rec	Rec	Rec	Rec	Rec	
Mercury	20/10	20.65000	103	10.12000	101	10.06000	101						

Notes:
a-indicates analyte failed the ICV limits for 6010C, 6020A
b-indicates analyte failed the ICV limits for 200.7 or 200.8
c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010C,6020A Except Hg 7470A,7471B
d-indicates analyte failed the CCV limits Hg 7470A/7471B

Qc Limits:
ICV - 200.7 (95-105)
CCV- 200.7/200.8/6010C/245.1 (90-110) Except Hg 7470A/ 7471B (80-120)
ICV - 6010C/6020A/200.8 (90-110)
ICP ICV/CCV (90-110)
Hg ICV/CCV (80-120)

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 02/28/18
Data File: A022818A
Prep Batch: 66498
Reporting Limits Used: 6010C/7470A,7471B,6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-274295-10	CCB V-274295-20	CCB V-274295-30	MB 66498-21
Antimony	1.5 U	1.5 U	1.5 U	3 U
Arsenic	1 U	1 U	1 U	2 U
Beryllium	.5 U	.5 U	.5 U	1 U
Cadmium	1 U	1 U	1 U	2 U
Cobalt	1 U	1 U	1 U	2 U
Lead	1.5 U	1.5 U	1.5 U	3 U
Selenium	5 U	5 U	5 U	10 U
Thallium	1 U	1 U	1 U	2 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 02/28/18
Data File: SW22208A2
Prep Batch: 66498
Reporting Limits Used: 6010C/7470A,7471B,6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-273721-9	CCB-14	CCB-25	MB 66498 (1)-15
Aluminum	.2 U	.2 U	.2 U	.2 U
Barium	.05 U	.05 U	.05 U	.05 U
Calcium	5 U	5 U	5 U	5 U
Chromium	.05 U	.05 U	.05 U	.05 U
Copper	.05 U	.05 U	.05 U	.05 U
Iron	.3 U	.3 U	.3 U	.3 U
Magnesium	5 U	5 U	5 U	5 U
Manganese	.04 U	.04 U	.04 U	.04 U
Nickel	.05 U	.05 U	.05 U	.05 U
Silver	.02 U	.02 U	.02 U	.02 U
Vanadium	.05 U	.05 U	.05 U	.05 U
Zinc	.05 U	.05 U	.05 U	.05 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 02/28/18
Data File: SW22208B2
Prep Batch: 66498
Reporting Limits Used: 6010C/7470A,7471B,6020A
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-273721-8	CCB-13	CCB-26	CCB-35	CCB-47	MB 66498 (1)-14
Potassium	5 U	5 U	5 U	5 U	5 U	5 U
Sodium	5 U	5 U	5 U	5 U	5 U	5 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 02/28/18
Data File: SW22208C2
Prep Batch: 66498
Reporting Limits Used: 6010C/7470A,7471B,6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-273721-9	CCB-20	CCB-32	CCB-44
Aluminum	.2 U	.2 U	.2 U	.2 U
Barium	.05 U	.05 U	.05 U	.05 U
Calcium	5 U	5 U	5 U	5 U
Chromium	.05 U	.05 U	.05 U	.05 U
Copper	.05 U	.05 U	.05 U	.05 U
Iron	.3 U	.3 U	.3 U	.3 U
Magnesium	5 U	5 U	5 U	5 U
Manganese	.04 U	.04 U	.04 U	.04 U
Nickel	.05 U	.05 U	.05 U	.05 U
Silver	.02 U	.02 U	.02 U	.02 U
Vanadium	.05 U	.05 U	.05 U	.05 U
Zinc	.05 U	.05 U	.05 U	.05 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 02/28/18
Data File: SW22213A2
Prep Batch: 66498
Reporting Limits Used: 6010C/7470A,7471B,6020A
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-273721-8	CCB-21	CCB-33	CCB-42
Sodium	5 U	5 U	5 U	5 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 03/01/18
Data File: A030118A
Prep Batch: 66498
Reporting Limits Used: 6010C/7470A,7471B,6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB V-274295-10	CCB V-274295-23	CCB V-274295-34
Antimony	1.5 U	1.5 U	1.5 U
Arsenic	1 U	1 U	1 U
Beryllium	.5 U	.5 U	.5 U
Cadmium	1 U	1 U	1 U
Cobalt	1 U	1 U	1 U
Lead	1.5 U	1.5 U	1.5 U
Selenium	5 U	5 U	5 U
Thallium	1 U	1 U	1 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 3
(ICB/CCB/MB Summary)

Date Analyzed: 02/27/18
Data File: H22208SW
Prep Batch: 66498
Reporting Limits Used: 6010C/7470A,7471B,6020A
Instrument: HGCV3A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:

Analyte	ICB-10	CCB-21	CCB-27	MB 66498 (1)-11
Mercury	.5 U	.5 U	.5 U	.5 U

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
u-indicates result below reporting limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 02/28/18
Data File: A022818A
Prep Batch: 66498
Reporting Limits Used: 6010C/7470A,7471B,6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-274296-11	Rec	ICSAB V-274297-12	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	50000	44920	90	47420.00000	95						
Antimony	0	U		0.18390							
Arsenic	100	U		105.30000	105						
Beryllium	0	U		0.01593							
Cadmium	100	1.125b		93.15000	93						
Calcium	150000	148300	99	52400.00000	102						
Cobalt	200	U		199.90000	100						
Iron	125000	108300	87	14400.00000	92						
Lead	0	U		0.07980							
Magnesium	50000	44580	89	47280.00000	95						
Selenium	100	U		97.36000	97						
Thallium	0	U		0.00198							

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 02/28/18
Data File: SW22208A2
Prep Batch: 66498
Reporting Limits Used: 6010C/7470A,7471B,6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-273217-10	Rec	ICSAB V-273219-11	Rec	ICSA V-273217-21	Rec	ICSAB V-273219-22	Rec	Rec	Rec	Rec	Rec
Aluminum	500	495.904	99	500.54100	100	495.147	99	499.10600	100				
Barium	.5	U		0.51963	104	U		0.51697	103				
Calcium	500	470.885	94	475.07400	95	469.881	94	473.42800	95				
Chromium	.5	U		0.49784	100	U		0.49480	99				
Copper	.5	U		0.54094	108	U		0.54412	109				
Iron	200	184.441	92	186.18200	93	184.384	92	185.58500	93				
Magnesium	500	486.124	97	492.06600	98	485.127	97	489.43400	98				
Manganese	.5	U		0.50899	102	U		0.50734	101				
Nickel	1	U		0.93837	94	U		0.91865	92				
Silver	1	U		1.11444	111	U		1.10881	111				
Vanadium	.5	U		0.49520	99	U		0.49299	99				
Zinc	1	U		0.98169	98	U		0.97577	98				

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 02/28/18
Data File: SW22208B2
Prep Batch: 66498
Reporting Limits Used: 6010C/7470A,7471B,6020A
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-273217-9	Rec	ICSAB V-273219-10	Rec	ICSA V-273217-22	Rec	ICSAB V-273219-23	Rec	ICSA V-273217-43	Rec	ICSAB V-273219-44	Rec		Rec		Rec
Aluminum	500	499.892	100	495.29700	99	488.018	98	490.78100	98	498.674	100	503.86900	101				
Calcium	500	493.094	99	488.57100	98	486.635	97	482.06200	96	488.813	98	492.98000	99				
Iron	200	188.131	94	187.68300	94	186.156	93	184.91700	92	187.261	94	189.55400	95				
Magnesium	500	488.464	98	485.30700	97	484.639	97	477.66300	96	484.238	97	488.09800	98				
Potassium	0	U		0.13673		U		0.17114		U		0.21372					
Sodium	0	U		0.16383		U		0.37705		U		0.39754					

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 02/28/18
Data File: SW22208C2
Prep Batch: 66498
Reporting Limits Used: 6010C/7470A,7471B,6020A
Instrument: PEICP2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-273217-10	Rec	ICSAB V-273219-11	Rec	ICSA V-273217-28	Rec	ICSAB V-273219-29	Rec	ICSA V-273217-40	Rec	ICSAB V-273219-41	Rec	Rec	Rec
Aluminum	500	488.035	98	491.53400	98	475.055	95	471.03700	94	465.27	93	467.11900	93		
Barium	.5	U		0.50830	102	U		0.49059	98	U		0.49047	98		
Calcium	500	463.227	93	466.09100	93	450.712	90	448.00200	90	446.379	89	447.31700	89		
Chromium	.5	U		0.48933	98	U		0.47075	94	U		0.46771	94		
Copper	.5	U		0.52407	105	U		0.50930	102	U		0.50900	102		
Iron	200	182.108	91	183.97200	92	175.349	88	177.20600	89	174.47	87	176.07500	88		
Magnesium	500	477.567	96	481.11600	96	470.666	94	467.74400	94	465.937	93	467.96200	94		
Manganese	.5	U		0.49729	99	U		0.48071	96	U		0.47930	96		
Nickel	1	U		0.91819	92	U		0.89291	89	U		0.88960	89		
Silver	1	U		1.08780	109	U		1.04928	105	U		1.03874	104		
Vanadium	.5	U		0.48370	97	U		0.46606	93	U		0.46303	93		
Zinc	1	U		0.95678	96	U		0.93880	94	U		0.93938	94		

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 02/28/18
Data File: SW22213A2
Prep Batch: 66498
Reporting Limits Used: 6010C/7470A,7471B,6020A
Instrument: PEICPRAD2A
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-273217-9	Rec	ICSAB V-273219-10	Rec	ICSA V-273217-29	Rec	ICSAB V-273219-30	Rec	ICSA V-273217-38	Rec	ICSAB V-273219-39	Rec	Rec	Rec
Aluminum	500	493.868	99	504.61500	101	505.349	101	504.01900	101	497.036	99	497.14900	99		
Calcium	500	476.566	95	483.18900	97	483.852	97	481.84700	96	476.372	95	474.37500	95		
Iron	200	184.718	92	187.47100	94	186.928	93	187.54500	94	184.709	92	184.11900	92		
Magnesium	500	476.923	95	483.58200	97	483.609	97	482.34900	96	476.776	95	474.25000	95		
Sodium	0	U		0.08910		U		0.18261		U		0.23119			

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

FORM 4
(ICSA/ICSAB Summary)

Date Analyzed: 03/01/18
Data File: A030118A
Prep Batch: 66498
Reporting Limits Used: 6010C/7470A,7471B,6020A
Instrument: MS2_7500SWA
Units: All units in ppm except Hg and icp-ms in ppb
Project Number: 8022605

Lab Name: Hampton-Clarke
Lab Code:
Contract:
Nras No:
Sdg No:
Case No:
ICSA/ICSAB: SOURCE: SCP Science

Analyte	Spk Amt	ICSA V-274296-11	Rec	ICSAB V-274297-12	Rec	Rec	Rec	Rec	Rec	Rec	Rec
Aluminum	50000	44340	89	47240.00000	94						
Antimony	0	U		0.18090							
Arsenic	100	U		104.60000	105						
Beryllium	0	U		0.02322							
Cadmium	100	1.112b		99.74000	100						
Calcium	150000	147100	98	58200.00000	105						
Cobalt	200	U		201.10000	101						
Iron	125000	110700	89	15800.00000	93						
Lead	0	U		0.19590							
Magnesium	50000	44990	90	47250.00000	94						
Selenium	100	U		98.19000	98						
Thallium	0	U		0.00820							

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
c-indicates the recovery failed the Qc Criteria in the ICSAB
u-indicates the absolute value of the concentration was below the reporting limit

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 66498

Instrument Type: ICP/HG

Analytical Method(s):6010C/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCS Matrix: AQUEOUS SampleID: LCSW 66498

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	66498	1	SW22208	16	5.2165	5.000	104		80	120
Barium	66498	1	SW22208	16	0.5266	0.500	105		80	120
Calcium	66498	1	SW22208	16	53.1555	50.00	106		80	120
Chromium	66498	1	SW22208	16	0.5259	0.500	105		80	120
Copper	66498	1	SW22208	16	0.5206	0.500	104		80	120
Iron	66498	1	SW22208	16	5.3048	5.000	106		80	120
Magnesium	66498	1	SW22208	16	52.8680	50.00	106		80	120
Manganese	66498	1	SW22208	16	0.5247	0.500	105		80	120
Mercury	66498	1	H22208S	12	10.3400	10	103		80	120
Nickel	66498	1	SW22208	16	0.5283	0.500	106		80	120
Potassium	66498	1	SW22208	15	52.3902	50	105		80	120
Silver	66498	1	SW22208	16	0.1022	0.100	102		80	120
Sodium	66498	1	SW22208	15	52.3832	50	105		80	120
Vanadium	66498	1	SW22208	16	0.5274	0.500	105		80	120
Zinc	66498	1	SW22208	16	0.5312	0.500	106		80	120

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCSW MR 66498

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	66498	1	SW22208	17	5.0662	5.000	101		80	120
Barium	66498	1	SW22208	17	0.5122	0.500	102		80	120
Calcium	66498	1	SW22208	17	51.3339	50.00	103		80	120
Chromium	66498	1	SW22208	17	0.5120	0.500	102		80	120
Copper	66498	1	SW22208	17	0.5094	0.500	102		80	120
Iron	66498	1	SW22208	17	5.1455	5.000	103		80	120
Magnesium	66498	1	SW22208	17	51.0178	50.00	102		80	120
Manganese	66498	1	SW22208	17	0.5035	0.500	101		80	120
Mercury	66498	1	H22208S	13	10.6600	10	107		80	120
Nickel	66498	1	SW22208	17	0.5170	0.500	103		80	120
Potassium	66498	1	SW22208	16	51.0238	50	102		80	120
Silver	66498	1	SW22208	17	0.0997	0.100	100		80	120
Sodium	66498	1	SW22208	16	50.9493	50	102		80	120
Vanadium	66498	1	SW22208	17	0.5129	0.500	103		80	120
Zinc	66498	1	SW22208	17	0.5163	0.500	103		80	120

TxtQcType: MS Matrix: AQUEOUS SampleID: AD02671-003

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	66498	1	SW22208	14	SW22208	12	5.1018	0.2U	5.00	102		75	125
Barium	66498	1	SW22208	14	SW22208	12	0.5258	0.05U	0.50	105		75	125
Calcium	66498	1	SW22208	14	SW22208	12	62.3061	13.9391	50.0	97		75	125
Chromium	66498	1	SW22208	14	SW22208	12	0.5016	0.05U	0.50	100		75	125
Copper	66498	1	SW22208	14	SW22208	12	0.5096	0.05U	0.50	102		75	125
Iron	66498	1	SW22208	14	SW22208	12	5.8560	1.1963	5.00	93		75	125
Magnesium	66498	1	SW22208	14	SW22208	12	52.2578	5U	50.0	105		75	125
Manganese	66498	1	SW22208	14	SW22208	12	0.8012	0.3780	0.50	85		75	125
Mercury	66498	1	H22208S	16	H22208S	14	10.6600	0.50U	10	107		75	125
Nickel	66498	1	SW22208	14	SW22208	12	0.5053	0.05U	0.50	101		75	125
Potassium	66498	1	SW22208	29	SW22208	27	52.6402	5U	50.00	105		75	125
Silver	66498	1	SW22208	14	SW22208	12	0.0982	0.02U	.100	98		75	125
Sodium	66498	1	SW22208	29	SW22208	27	141.9950	101.9050	50.00	80		75	125
Vanadium	66498	1	SW22208	14	SW22208	12	0.5018	0.05U	0.50	100		75	125
Zinc	66498	1	SW22208	14	SW22208	12	0.5075	0.05U	0.50	101		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 66498

Instrument Type: ICP/HG

Analytical Method(s):6010C/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD02671-003

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	66498	1	SW22208	15	SW22208	12	5.3063	0.2U	5.00	106		75	125
Barium	66498	1	SW22208	15	SW22208	12	0.5479	0.05U	0.50	110		75	125
Calcium	66498	1	SW22208	15	SW22208	12	65.1500	13.9391	50.0	102		75	125
Chromium	66498	1	SW22208	15	SW22208	12	0.5235	0.05U	0.50	105		75	125
Copper	66498	1	SW22208	15	SW22208	12	0.5134	0.05U	0.50	103		75	125
Iron	66498	1	SW22208	15	SW22208	12	6.1247	1.1963	5.00	99		75	125
Magnesium	66498	1	SW22208	15	SW22208	12	53.8440	5U	50.0	108		75	125
Manganese	66498	1	SW22208	15	SW22208	12	0.8375	0.3780	0.50	92		75	125
Mercury	66498	1	H22208S	17	H22208S	14	10.2500	0.50U	10	102		75	125
Nickel	66498	1	SW22208	15	SW22208	12	0.5262	0.05U	0.50	105		75	125
Potassium	66498	1	SW22208	30	SW22208	27	53.7776	5U	50.0	108		75	125
Silver	66498	1	SW22208	15	SW22208	12	0.1019	0.02U	0.100	102		75	125
Sodium	66498	1	SW22208	30	SW22208	27	146.0890	101.9050	50	88		75	125
Vanadium	66498	1	SW22208	15	SW22208	12	0.5234	0.05U	0.50	105		75	125
Zinc	66498	1	SW22208	15	SW22208	12	0.5316	0.05U	0.50	106		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 66498

Instrument Type: ICPMS

Analytical Method(s):6020A/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCS Matrix: AQUEOUS SampleID: LCS 66498

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	66498	1	A022818A	22	220.1000	250	88		80	120
Arsenic	66498	1	A022818A	22	230.5000	250	92		80	120
Beryllium	66498	1	A022818A	22	218.7000	250	87		80	120
Cadmium	66498	1	A022818A	22	210.5000	250	84		80	120
Cobalt	66498	1	A022818A	22	215.9000	250	86		80	120
Lead	66498	1	A022818A	22	205.4000	250	82		80	120
Selenium	66498	1	A022818A	22	226.0000	250	90		80	120
Thallium	66498	1	A022818A	22	201.9000	250	81		80	120

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 66498

Analyte	BatchId	DF	Data Fil	Seq#:	Spk Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	66498	1	A022818A	23	220.0000	250	88		80	120
Arsenic	66498	1	A022818A	23	226.9000	250	91		80	120
Beryllium	66498	1	A022818A	23	222.7000	250	89		80	120
Cadmium	66498	1	A022818A	23	210.5000	250	84		80	120
Cobalt	66498	1	A022818A	23	215.2000	250	86		80	120
Lead	66498	1	A022818A	23	209.3000	250	84		80	120
Selenium	66498	1	A022818A	23	222.2000	250	89		80	120
Thallium	66498	1	A022818A	23	203.6000	250	81		80	120

TxtQcType: MS Matrix: AQUEOUS SampleID: AD02671-003

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	66498	1	A030118A	17	A030118A	14	246.1000	1.5U	250	98		75	125
Arsenic	66498	1	A030118A	17	A030118A	14	234.8000	1U	250	94		75	125
Beryllium	66498	1	A030118A	17	A030118A	14	247.5000	0.5U	250	99		75	125
Cadmium	66498	1	A030118A	17	A030118A	14	229.1000	1U	250	92		75	125
Cobalt	66498	1	A030118A	17	A030118A	14	222.7000	1U	250	89		75	125
Lead	66498	1	A030118A	17	A030118A	14	228.5000	1.5U	250	91		75	125
Selenium	66498	1	A030118A	17	A030118A	14	226.7000	5U	250	91		75	125
Thallium	66498	1	A030118A	17	A030118A	14	222.2000	1U	250	89		75	125

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD02671-003

Analyte	BatchId	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	66498	1	A030118A	18	A030118A	14	250.1000	1.5U	250	100		75	125
Arsenic	66498	1	A030118A	18	A030118A	14	240.3000	1U	250	96		75	125
Beryllium	66498	1	A030118A	18	A030118A	14	253.6000	0.5U	250	101		75	125
Cadmium	66498	1	A030118A	18	A030118A	14	234.5000	1U	250	94		75	125
Cobalt	66498	1	A030118A	18	A030118A	14	233.9000	1U	250	94		75	125
Lead	66498	1	A030118A	18	A030118A	14	234.4000	1.5U	250	94		75	125
Selenium	66498	1	A030118A	18	A030118A	14	228.2000	5U	250	91		75	125
Thallium	66498	1	A030118A	18	A030118A	14	230.9000	1U	250	92		75	125

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7
SPIKE RECOVERY DATA
PREP BATCH: 66498

Instrument Type: ICP/HG
Analytical Method(s):6010C/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: AQUEOUS SampleID: AD02671-003

Analyte	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Aluminum	1	SW22208	16	SW22208	12	5.1981	0.2U	5.000	104		80	120
Barium	1	SW22208	16	SW22208	12	0.5335	0.05U	.5	107		80	120
Calcium	1	SW22208	16	SW22208	12	63.4955	13.9391	50.0	99		80	120
Chromium	1	SW22208	16	SW22208	12	0.5084	0.05U	.5000	102		80	120
Copper	1	SW22208	16	SW22208	12	0.5109	0.05U	0.5	102		80	120
Iron	1	SW22208	16	SW22208	12	6.2682	1.1963	5.000	101		80	120
Magnesium	1	SW22208	16	SW22208	12	52.3794	5U	50.0	105		80	120
Manganese	1	SW22208	16	SW22208	12	0.8780	0.3780	.5000	100		80	120
Nickel	1	SW22208	16	SW22208	12	0.5135	0.05U	.5000	103		80	120
Potassium	1	SW22208	31	SW22208	27	51.5164	5U	50.00	103		80	120
Silver	1	SW22208	16	SW22208	12	0.0800	0.02U	0.100	80		80	120
Sodium	1	SW22208	31	SW22208	27	145.3990	101.9050	50.00	87		80	120
Vanadium	1	SW22208	16	SW22208	12	0.5085	0.05U	.5000	102		80	120
Zinc	1	SW22208	16	SW22208	12	0.5203	0.05U	0.500	104		80	120

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM5/FORM7

SPIKE RECOVERY DATA

PREP BATCH: 66498

Instrument Type: ICPMS

Analytical Method(s):6020A/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: PS Matrix: AQUEOUS SampleID: AD02671-003

Analyte	DF	Data Fil	Seq#:	NS Data Fil	Seq#	Spk Conc:	NS Conc:	Spk Adde	Recov	Qual	Lo Lim	Hi Lim
Antimony	1	A030118A	19	A030118A	14	51.4100	1.5U	50	103		80	120
Arsenic	1	A030118A	19	A030118A	14	50.6500	1U	50	101		80	120
Beryllium	1	A030118A	19	A030118A	14	51.1500	0.5U	50	102		80	120
Cadmium	1	A030118A	19	A030118A	14	49.2000	1U	50	98		80	120
Cobalt	1	A030118A	19	A030118A	14	48.5200	1U	50	97		80	120
Lead	1	A030118A	19	A030118A	14	47.8000	1.5U	50	96		80	120
Selenium	1	A030118A	19	A030118A	14	240.6000	5U	250	96		80	120
Thallium	1	A030118A	19	A030118A	14	51.0900	1U	50	102		80	120

a-Indicates Recovery Failed the criteria b-Indicates Recovery Failed the criteria but non spike concentration >4*spike amount

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 66498

Instrument Type: ICP/HG

Analytical Method(s):6010C/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCSW MR 66498

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Aluminum	66498	SW22208	17	SW22208	16	5.0662	5.2165	2.9		20
Barium	66498	SW22208	17	SW22208	16	0.5122	0.5266	2.8		20
Calcium	66498	SW22208	17	SW22208	16	51.3339	53.1555	3.5		20
Chromium	66498	SW22208	17	SW22208	16	0.5120	0.5259	2.7		20
Copper	66498	SW22208	17	SW22208	16	0.5094	0.5206	2.2		20
Iron	66498	SW22208	17	SW22208	16	5.1455	5.3048	3		20
Magnesium	66498	SW22208	17	SW22208	16	51.0178	52.8680	3.6		20
Manganese	66498	SW22208	17	SW22208	16	0.5035	0.5247	4.1		20
Mercury	66498	H22208S	13	H22208S	12	10.6600	10.3400	3		20
Nickel	66498	SW22208	17	SW22208	16	0.5170	0.5283	2.2		20
Potassium	66498	SW22208	16	SW22208	15	51.0238	52.3902	2.6		20
Silver	66498	SW22208	17	SW22208	16	0.0997	0.1022	2.5		20
Sodium	66498	SW22208	16	SW22208	15	50.9493	52.3832	2.8		20
Vanadium	66498	SW22208	17	SW22208	16	0.5129	0.5274	2.8		20
Zinc	66498	SW22208	17	SW22208	16	0.5163	0.5312	2.9		20

TxtQcType: MR Matrix: AQUEOUS SampleID: AD02671-003

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD		Limit
Aluminum	66498	SW22208	13	SW22208	12	0.2U	0.2U	---		20
Barium	66498	SW22208	13	SW22208	12	0.05U	0.05U	---		20
Calcium	66498	SW22208	13	SW22208	12	13.2206	13.9391	5.3		20
Chromium	66498	SW22208	13	SW22208	12	0.05U	0.05U	---		20
Copper	66498	SW22208	13	SW22208	12	0.05U	0.05U	---		20
Iron	66498	SW22208	13	SW22208	12	0.9521	1.1963	23	b	20
Magnesium	66498	SW22208	13	SW22208	12	5U	5U	---		20
Manganese	66498	SW22208	13	SW22208	12	0.3343	0.3780	12		20
Mercury	66498	H22208S	15	H22208S	14	0.50U	0.50U	---		20
Nickel	66498	SW22208	13	SW22208	12	0.05U	0.05U	---		20
Potassium	66498	SW22208	28	SW22208	27	5U	5U	---		20
Silver	66498	SW22208	13	SW22208	12	0.02U	0.02U	---		20
Sodium	66498	SW22208	28	SW22208	27	95.4240	101.9050	6.6		20
Vanadium	66498	SW22208	13	SW22208	12	0.05U	0.05U	---		20
Zinc	66498	SW22208	13	SW22208	12	0.05U	0.05U	---		20

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD02671-003

Analyte	BatchId	Data Fil	Seq#:	MS File	Seq#	Result 1	Result 2	RPD		Limit
Aluminum	66498	SW22208	15	SW22208	14	5.3063	5.1018	3.9		20
Barium	66498	SW22208	15	SW22208	14	0.5479	0.5258	4.1		20
Calcium	66498	SW22208	15	SW22208	14	65.1500	62.3061	4.5		20
Chromium	66498	SW22208	15	SW22208	14	0.5235	0.5016	4.3		20
Copper	66498	SW22208	15	SW22208	14	0.5134	0.5096	.75		20
Iron	66498	SW22208	15	SW22208	14	6.1247	5.8560	4.5		20
Magnesium	66498	SW22208	15	SW22208	14	53.8440	52.2578	3		20
Manganese	66498	SW22208	15	SW22208	14	0.8375	0.8012	4.4		20
Mercury	66498	H22208S	17	H22208S	16	10.2500	10.6600	3.9		20
Nickel	66498	SW22208	15	SW22208	14	0.5262	0.5053	4.1		20
Potassium	66498	SW22208	30	SW22208	29	53.7776	52.6402	2.1		20
Silver	66498	SW22208	15	SW22208	14	0.1019	0.0982	3.7		20
Sodium	66498	SW22208	30	SW22208	29	146.0890	141.9950	2.8		20
Vanadium	66498	SW22208	15	SW22208	14	0.5234	0.5018	4.2		20
Zinc	66498	SW22208	15	SW22208	14	0.5316	0.5075	4.7		20

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 66498

Instrument Type: ICP/HG

Analytical Method(s):6010C/200.7/7470A/7471B/245.1 ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: SD Matrix: AQUEOUS SampleID: AD02671-003

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Aluminum	66498	SW22208	17	SW22208	12	5	0.0473	0.1867	27	c	10
Barium	66498	SW22208	17	SW22208	12	5	0.0051	0.0257	0.12		10
Calcium	66498	SW22208	17	SW22208	12	5	2.8372	13.9391	1.8		10
Chromium	66498	SW22208	17	SW22208	12	5	0.0002	0.0007	52	c	10
Copper	66498	SW22208	17	SW22208	12	5	0.0015	0.0021	254	c	10
Iron	66498	SW22208	17	SW22208	12	5	0.2381	1.1963	0.47		10
Magnesium	66498	SW22208	17	SW22208	12	5	0.3775	2.1207	11	a	10
Manganese	66498	SW22208	17	SW22208	12	5	0.0773	0.3780	2.2		10
Nickel	66498	SW22208	17	SW22208	12	5	-0.0009	-0.0007	---		10
Potassium	66498	SW22208	32	SW22208	27	5	0.5816	2.9356	0.93		10
Silver	66498	SW22208	17	SW22208	12	5	0.0002	0.0004	---		10
Sodium	66498	SW22208	32	SW22208	27	5	20.8162	101.9050	2.1		10
Vanadium	66498	SW22208	17	SW22208	12	5	0.0003	0.0023	---		10
Zinc	66498	SW22208	17	SW22208	12	5	0.0002	0.0037	---		10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

FORM6/FORM9

RPD/%Difference Data

PREP BATCH: 66498

Instrument Type: ICPMS

Analytical Method(s):6020A/200.8

ICP units in ppm, ICPMS and Hg in ppb

TxtQcType: LCSMR Matrix: AQUEOUS SampleID: LCS MR 66498

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Antimony	66498	A022818A	23	A022818A	22	220.0000	220.1000	.045	20
Arsenic	66498	A022818A	23	A022818A	22	226.9000	230.5000	1.6	20
Beryllium	66498	A022818A	23	A022818A	22	222.7000	218.7000	1.8	20
Cadmium	66498	A022818A	23	A022818A	22	210.5000	210.5000	0	20
Cobalt	66498	A022818A	23	A022818A	22	215.2000	215.9000	.32	20
Lead	66498	A022818A	23	A022818A	22	209.3000	205.4000	1.9	20
Selenium	66498	A022818A	23	A022818A	22	222.2000	226.0000	1.7	20
Thallium	66498	A022818A	23	A022818A	22	203.6000	201.9000	.84	20

TxtQcType: MR Matrix: AQUEOUS SampleID: AD02671-003

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	Result 1	Result 2	RPD	Limit
Antimony	66498	A030118A	15	A030118A	14	1.5U	1.5U	---	20
Arsenic	66498	A030118A	15	A030118A	14	1U	1U	---	20
Beryllium	66498	A030118A	15	A030118A	14	0.5U	0.5U	---	20
Cadmium	66498	A030118A	15	A030118A	14	1U	1U	---	20
Cobalt	66498	A030118A	15	A030118A	14	1U	1U	---	20
Lead	66498	A030118A	15	A030118A	14	1.5U	1.5U	---	20
Selenium	66498	A030118A	15	A030118A	14	5U	5U	---	20
Thallium	66498	A030118A	15	A030118A	14	1U	1U	---	20

TxtQcType: MSD Matrix: AQUEOUS SampleID: AD02671-003

Analyte	BatchId	Data Fil	Seq#:	MS File	Seq#	Result 1	Result 2	RPD	Limit
Antimony	66498	A030118A	18	A030118A	17	250.1000	246.1000	1.6	20
Arsenic	66498	A030118A	18	A030118A	17	240.3000	234.8000	2.3	20
Beryllium	66498	A030118A	18	A030118A	17	253.6000	247.5000	2.4	20
Cadmium	66498	A030118A	18	A030118A	17	234.5000	229.1000	2.3	20
Cobalt	66498	A030118A	18	A030118A	17	233.9000	222.7000	4.9	20
Lead	66498	A030118A	18	A030118A	17	234.4000	228.5000	2.5	20
Selenium	66498	A030118A	18	A030118A	17	228.2000	226.7000	.66	20
Thallium	66498	A030118A	18	A030118A	17	230.9000	222.2000	3.8	20

TxtQcType: SD Matrix: AQUEOUS SampleID: AD02671-003

Analyte	BatchId	Data Fil	Seq#:	NS File	Seq#	DF	Result 1	Result 2	%Diff		Limit
Antimony	66498	A030118A	16	A030118A	14	5	-0.2684	-0.0325	---		10
Arsenic	66498	A030118A	16	A030118A	14	5	0.1308	0.5712	14	c	10
Beryllium	66498	A030118A	16	A030118A	14	5	0.0122	0.0102	---		10
Cadmium	66498	A030118A	16	A030118A	14	5	0.0232	0.0421	175	c	10
Cobalt	66498	A030118A	16	A030118A	14	5	0.0437	0.1451	---		10
Lead	66498	A030118A	16	A030118A	14	5	0.0568	0.3079	---		10
Selenium	66498	A030118A	16	A030118A	14	5	0.1848	0.5949	---		10
Thallium	66498	A030118A	16	A030118A	14	5	-0.0080	0.0022	---		10

a-Indicates Rpd Failed the criteria

b-Method Rep Out but concentrations < 5*RL

c-Serial dilution Out but conc < 10 * IDL

8022605 0519

Metal Data
Verification of Instrument Parameters

INTERELEMENT CORRECTION SUMMARY PEICP2

Interfered Elements	Interfering Elements							
	Al	Ca	Fe	Mg	Mn	Mo	Ti	Zn
Al	N/A	0	0	0	0	0	0	0
Sb	-0.0594	0.00532	0.0684	-0.00601	0	0	-2.11	0
As	-0.111	0	-0.122	-0.0251	0	1.42	0	0
Ba	0	0.0151	0	0	0	0	0	0
Be	0	0	0	0	0	0	0.630	0
Cd	0	0	-0.00504	0	0	0	0	0
Ca	0	N/A	0	0	0	0	0	0
Cr	0	0	0	0.0212	0	0	0	0
Co	0.0103	0	0.0250	0	0	0	1.81	0
Cu	0	-0.0201	-0.137	0	0	0	-3.99	0
Fe	0	0	N/A	0	0	0	0	0
Pb	-0.264	-0.00609	0.0651	0	0	-0.608	0	0
Mg	0	0	0	N/A	0	0	0	0
Mn	0	0	0	0.0336	N/A	0	0	0
Mo	-0.0223	0	0	0	0	N/A	0	0
Ni	0	0	-0.0152	0	0	0	0	0
Se	-0.0743	0.0611	-0.450	-0.0405	0.893	0.516	0	0
Ag	0	0	-0.0468	0	0	0	0	0
Tl	0.196	-0.202	0.0701	0.0611	-4.46	0	-7.46	0
Sn	-0.0151	-0.0160	0	0	0	0	-3.16	0
Ti	0	0.00465	0	0.0266	0	0.54	N/A	0
V	0	0	0.0546	0.0100	0	-0.830	0	0
Zn	0.0102	0	0	0	0	0	0	N/A

IECs run 08/21/17. Ba mod 09/20/17; Ti mod 11/29/17; Co, Sn mod 01/18/18; Ag, Cr, V, Zn mod 01/30/18; Cu, Mo, Ni, Se mod 02/07/18; As, Cd, Pb, Sb, Tl mod 02/12/18.

INTERELEMENT CORRECTION SUMMARY PEICP2rad

	Interfering Elements					
	Al	**Ca**	**Fe**	**Mg**	**Mn**	**Ti**
Interfered Elements						
Al	N/A	0	0	0	0	0
Ca	0	N/A	0	0	0	0
Fe	0	0	N/A	0	0	0
K	0	0	0	0	0	0
Mg	0	0	0	N/A	0	0
Mn	0	0	-0.571	0	N/A	0
Na	0	0	0	0	0	0
Ti	0	0	0	0	0	N/A

IECs run 08/21/17.

LINEAR RANGES
PE ICP 2 Axial

ELEMENT	Linear Range (mg/L)
Al	900
Sb	45
As	45
Ba	45
Be	4.5
Cd	45
Ca	720
Cr	45
Co	45
Cu	45
Fe	450
Pb	45
Mg	900
Mn	36
Mo	45
Ni	45
Se	45
Ag	9
Tl	45
Sn	45
Ti	45
V	45
Zn	45

All elements analyzed 08/04/17.

LINEAR RANGES
PE ICP 2 Radial

ELEMENT	LINEAR RANGE (PPM)
Al	900
Ca	900
Fe	900
Mg	900
K	900
Na	900
Mn	45
Ti	45

All elements analyzed on 4/20/17.

MDL / RL SUMMARY
6010 WATER
PE ICP 2 AXIAL

ELEMENT	MDL	Reporting Limits (Mg/L)
AL	0.0618048	0.2
SB	0.0054521	0.02
AS	0.00355993	0.02
BA	0.000248467	0.05
BE	0.000040927	0.012
CD	0.000631219	0.012
CA	0.0236262	5
CR	0.000643639	0.05
CO	0.000408308	0.02
CU	0.00322826	0.05
FE	0.0668063	0.3
PB	0.00258478	0.012
MG	0.00952402	5
MN	0.0015538	0.04
MO	0.000372952	0.02
NI	0.00142407	0.05
SE	0.00640144	0.04
AG	0.000441287	0.02
TL	0.00340867	0.02
SN	0.00422027	0.05
TI	0.000399149	0.05
V	0.00107213	0.05
ZN	0.0138882	0.05

Mg analyzed 08/18/17. All others analyzed 08/12/17.

MDL / RL SUMMARY
6010 WATER
PE ICP 2 RADIAL

ELEMENT	MDL	Reporting Limits (Mg/L)
Al	0.0740164	0.2
Ca	0.142735	5
Fe	0.134362	0.3
Mg	0.1578420	5
Mn	0.00205193	0.04
K	0.186281	5
Na	0.157041	5
Ti	0.00208359	0.05

Al analyzed 07/21/17. All others analyzed 07/20/17.

MDL/RL
Method 6020/6020A
MS2_7500
Aqueous

ELEMENT	MDL (ug/L)	Reporting Limits (ug/L)
Al	23.4177	200
Sb	0.0454	3
As	0.0467	2
Ba	0.1077	5
Be	0.0290	1
Cd	0.02838	2
Ca	34.8566	500
Cr	0.2630	2
Co	0.0429	2
Cu	1.409	10
Fe	25.4687	300
Pb	0.0466	3
Mg	9.3496	500
Mn	1.751	6
Mo	0.160	2
Ni	0.2761	3
K	47.265	500
Se	0.2241	10
Ag	0.0156	1
Na	68.1591	500
Tl	0.01530	2
V	0.02418	2
Zn	3.4829	20

All elements except Na, K run on 02/16/2017
Na, K run on 03/03/2017

LINEAR RANGES
ICP-MS 2 6020
MS_7500
AQUEOUS

ELEMENT	LINEAR RANGE (ppb)
Al	270000
Sb	2700
As	2700
Ba	2700
Be	2250
Ca	270000
Cd	2700
Cr	2250
Co	2250
Cu	2250
Fe	225000
Pb	2700
Mg	270000
Mn	2250
Mo	2700
Na	270000
Ni	2250
K	270000
Se	2700
Ag	900
Tl	2700
V	2250
Zn	2250

Analyzed on 5/31/2017~ 6/30/17

8022605 0528

Metal Data
Raw Data

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 66498 (1) % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 66498 (1) Units: UG/L Lab Code:
Matrix: AQUEOUS
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7429-90-5	Aluminum	200	ND	1	50	50	02/28/18	66498	SW22208A2	15	P	PEICP2A
7440-39-3	Barium	50	ND	1	50	50	02/28/18	66498	SW22208A2	15	P	PEICP2A
7440-70-2	Calcium	5000	ND	1	50	50	02/28/18	66498	SW22208A2	15	P	PEICP2A
7440-47-3	Chromium	50	ND	1	50	50	02/28/18	66498	SW22208A2	15	P	PEICP2A
7440-50-8	Copper	50	ND	1	50	50	02/28/18	66498	SW22208A2	15	P	PEICP2A
7439-89-6	Iron	300	ND	1	50	50	02/28/18	66498	SW22208A2	15	P	PEICP2A
7439-95-4	Magnesium	5000	ND	1	50	50	02/28/18	66498	SW22208A2	15	P	PEICP2A
7439-96-5	Manganese	40	ND	1	50	50	02/28/18	66498	SW22208A2	15	P	PEICP2A
7439-97-6	Mercury	0.50	ND	1	25	25	02/27/18	66498	H22208SW	11	CV	HGCV3A
7439-98-7	Molybdenum	20	ND	1	50	50	02/28/18	66498	SW22208A2	15	P	PEICP2A
7440-02-0	Nickel	50	ND	1	50	50	02/28/18	66498	SW22208A2	15	P	PEICP2A
7440-09-7	Potassium	5000	ND	1	50	50	02/28/18	66498	SW22208B2	14	P	PEICPRAD2A
7440-22-4	Silver	20	ND	1	50	50	02/28/18	66498	SW22208A2	15	P	PEICP2A
7440-23-5	Sodium	5000	ND	1	50	50	02/28/18	66498	SW22208B2	14	P	PEICPRAD2A
7440-31-5	Tin	50	ND	1	50	50	02/28/18	66498	SW22208A2	15	P	PEICP2A
7440-32-6	Titanium	50	ND	1	50	50	02/28/18	66498	SW22208A2	15	P	PEICP2A
7440-62-2	Vanadium	50	ND	1	50	50	02/28/18	66498	SW22208A2	15	P	PEICP2A
7440-66-6	Zinc	50	ND	1	50	50	02/28/18	66498	SW22208A2	15	P	PEICP2A

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: MB 66498 % Solid: 0 Lab Name: Hampton-Clarke
Client Id: MB 66498 Units: UG/L Lab Code:
Matrix: AQUEOUS
Level: LOW

Cas No.	Analyte	RL	Conc	Dil Fact	Initial Wt/Vol	Final Wt/Vol	Analysis Date	Prep Batch	File:	Seq Num	M	Instr
7440-36-0	Antimony	3.0	ND	1	50	100	02/28/18	66498	A022818A	21	MS	MS2_7500SWA
7440-38-2	Arsenic	2.0	ND	1	50	100	02/28/18	66498	A022818A	21	MS	MS2_7500SWA
7440-41-7	Beryllium	1.0	ND	1	50	100	02/28/18	66498	A022818A	21	MS	MS2_7500SWA
7440-43-9	Cadmium	2.0	ND	1	50	100	02/28/18	66498	A022818A	21	MS	MS2_7500SWA
7440-48-4	Cobalt	2.0	ND	1	50	100	02/28/18	66498	A022818A	21	MS	MS2_7500SWA
7439-92-1	Lead	3.0	ND	1	50	100	02/28/18	66498	A022818A	21	MS	MS2_7500SWA
7782-49-2	Selenium	10	ND	1	50	100	02/28/18	66498	A022818A	21	MS	MS2_7500SWA
7440-28-0	Thallium	2.0	ND	1	50	100	02/28/18	66498	A022818A	21	MS	MS2_7500SWA

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\HGCV3A\H22208SW.txt

Analysis Date: 02/27/18 **Instrument:** HGCV3A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
Calibration Blank	1	CAL	14:45	1							0
.2 PPB	1	CAL	14:47	2							0
.5 PPB	1	CAL	14:48	3							0
1 PPB	1	CAL	14:49	4							0
2 PPB	1	CAL	14:51	5							0
5 PPB	1	CAL	14:52	6							0
10 PPB	1	CAL	14:54	7							0
25 PPB	1	CAL	14:56	8							0
ICV (2)	1	ICV	14:58	9							0
ICB	1	ICB	15:00	10							0
MB 66498 (1)	1	MB	15:01	11		AQUEO	AQUEO	SW846	66498		0
LCSW 66498	1	LCS	15:03	12		AQUEO	AQUEO	SW846	66498		0
LCSW MR 66498	1	LCS	15:05	13		AQUEO	AQUEO	SW846	66498		0
AD02671-003	1	SMP	15:06	14		AQUEO	AQUEO	SW846	66498		0
AD02671-003	1	MR	15:08	15		AQUEO	AQUEO	SW846	66498		0
AD02671-003	1	MS	15:10	16		AQUEO	AQUEO	SW846	66498		0
AD02671-003	1	MSD	15:11	17		AQUEO	AQUEO	SW846	66498		0
AD02743-006	1	SMP	15:13	18	HG-W-7470	AQUEO	AQUEO	SW846	66498		0
AD02743-007	1	SMP	15:15	19	HG-W-7470	AQUEO	AQUEO	SW846	66498		0
CCV	1	CCV	15:16	20							0
CCB	1	CCB	15:18	21							0
AD02743-009	1	SMP	15:20	22	HG-W-7470	AQUEO	AQUEO	SW846	66498		0
AD02771-001	1	SMP	15:21	23	HG-W-7470	AQUEO	AQUEO	SW846	66498		0
AD02771-002	1	SMP	15:23	24	HG-W-7470	AQUEO	AQUEO	SW846	66498		0
AD02799-002	1	SMP	15:24	25	HG-W-7470	AQUEO	AQUEO	SW846	66498		0
CCV	1	CCV	15:26	26							0
CCB	1	CCB	15:28	27							0

Comments/Reviewedby:

olufemi
192.168.1.25 2/27/2018 3:40:24 PM

RUN IS OK

2/28/18

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

V-274447

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP2A\SW22208A2.txt

Analysis Date: 02/28/18 **Instrument:** PEICP2A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-273721	1	CAL	13:33	1							V-273721(ICB/CCB)
CALST1 V-270575	1	CAL	13:38	2							V-270575(ICS1 Lowest std)
CALST2 V-273214	1	CAL	13:41	3							V-273214(ICS2- Low Std)
CALST3 V-273216	1	CAL	13:44	4							V-273216(ICS3 - Middle Std)
CALST4 V-272853	1	CAL	13:49	5							V-272853(ICS4 High std)
ICS3 V-273216	1	ICS	13:55	6							V-273216(ICS3 - Middle Std)
ICV V-273563	1	ICV	13:59	7							V-273563(CCV)
LLICV [aq] V-274418	1	LLICV	14:04	8		AQUEO	AQUEO	SW846	66498		V-274418(LLICV/LLCCV aq)
ICB V-273721	1	ICB	14:08	9							V-273721(ICB/CCB)
ICSA V-273217	1	ICSA	14:11	10							V-273217(ICSA)
ICSAB V-273219	1	ICSAB	14:17	11							V-273219(ICSAB)
CCV V-273563	1	CCV	14:23	12							V-273563(CCV)
LLCCV [aq] V-274418	1	LLCCV	14:28	13		AQUEO	AQUEO	SW846	66498		V-274418(LLICV/LLCCV aq)
CCB	1	CCB	14:31	14							()
MB 66498 (1)	1	MB	14:35	15		AQUEO	AQUEO	SW846	66498		()
LCSW 66498	1	LCS	14:38	16		AQUEO	AQUEO	SW846	66498		()
LCSW MR 66498	1	LCS	14:43	17		AQUEO	AQUEO	SW846	66498		()
AD02743-006	1	SMP	14:48	18	MET-TAL6010W	AQUEO	AQUEO	SW846	66498		()
AD02743-007	1	SMP	14:52	19	MET-TAL6010W	AQUEO	AQUEO	SW846	66498		()
AD02743-009	1	SMP	14:55	20	MET-TAL6010W	AQUEO	AQUEO	SW846	66498		()
ICSA V-273217	1	ICSA	14:59	21							V-273217(ICSA)
ICSAB V-273219	1	ICSAB	15:05	22							V-273219(ICSAB)
CCV V-273563	1	CCV	15:10	23							V-273563(CCV)
LLCCV [aq] V-274418	1	LLCCV	15:15	24		AQUEO	AQUEO	SW846	66498		V-274418(LLICV/LLCCV aq)
CCB	1	CCB	15:19	25							()

Comments/Reviewedby:

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sean
192 168 1 89 2/28/2018 3:30:28 PM

OK

3/2/18

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICPRAD2A\SW22208B2.txt

Analysis Date: 02/28/18 **Instrument:** PEICPRAD2A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-273721	1	CAL	15:27	1							V-273721(ICB/CCB)
CALST2 V-273214	1	CAL	15:31	2							V-273214(ICS2- Low Std)
CALST3 V-273216	1	CAL	15:34	3							V-273216(ICS3 - Middle Std)
CALST4 V-272853	1	CAL	15:37	4							V-272853(ICS4 High std)
ICS3 V-273216	1	ICS	15:40	5							V-273216(ICS3 - Middle Std)
ICV V-273563	1	ICV	15:43	6							V-273563(CCV)
LLICV [aq] V-274418	1	LLICV	15:46	7		AQUEO	AQUEO	SW846	66498		V-274418(LLICV/LLCCV aq)
ICB V-273721	1	ICB	15:49	8							V-273721(ICB/CCB)
ICSA V-273217	1	ICSA	15:53	9							V-273217(ICSA)
ICSAB V-273219	1	ICSAB	15:56	10							V-273219(ICSAB)
CCV V-273563	1	CCV	16:00	11							V-273563(CCV)
LLCCV [aq] V-274418	1	LLCCV	16:03	12		AQUEO	AQUEO	SW846	66498		V-274418(LLICV/LLCCV aq)
CCB	1	CCB	16:07	13							0
MB 66498 (1)	1	MB	16:10	14		AQUEO	AQUEO	SW846	66498		0
LCSW 66498	1	LCS	16:14	15		AQUEO	AQUEO	SW846	66498		0
LCSW MR 66498	1	LCS	16:16	16		AQUEO	AQUEO	SW846	66498		0
AD02743-006	1	SMP	16:19	17	MET-TAL6010W	AQUEO	AQUEO	SW846	66498	Na sat'n	0
AD02743-007	1	SMP	16:24	18	MET-TAL6010W	AQUEO	AQUEO	SW846	66498		0
AD02743-009	1	SMP	16:27	19	MET-TAL6010W	AQUEO	AQUEO	SW846	66498	Na over LR	0
AD02743-006	2	SMP	16:32	20	MET-TAL6010W	AQUEO	AQUEO	SW846	66498	Na dilution	0
AD02743-009	2	SMP	16:37	21	MET-TAL6010W	AQUEO	AQUEO	SW846	66498	Na dilution	0
ICSA V-273217	1	ICSA	16:41	22							V-273217(ICSA)
ICSAB V-273219	1	ICSAB	16:45	23							V-273219(ICSAB)
CCV V-273563	1	CCV	16:49	24							V-273563(CCV)
LLCCV [aq] V-274418	1	LLCCV	16:52	25		AQUEO	AQUEO	SW846	66498		V-274418(LLICV/LLCCV aq)
CCB	1	CCB	16:55	26							0
AD02671-003	1	SMP	16:59	27	MET-3-SOIL	AQUEO	AQUEO	SW846	66498		0
AD02671-003	1	MR	17:02	28	MET-3-SOIL	AQUEO	AQUEO	SW846	66498		0
AD02671-003	1	MS	17:06	29	MET-3-SOIL	AQUEO	AQUEO	SW846	66498		0
AD02671-003	1	MSD	17:09	30	MET-3-SOIL	AQUEO	AQUEO	SW846	66498		0
AD02671-003	1	PS	17:12	31	MET-3-SOIL	AQUEO	AQUEO	SW846	66498		0
AD02671-003	5	SD	17:15	32	MET-3-SOIL	AQUEO	AQUEO	SW846	66498		0
CCV V-273563	1	CCV	17:18	33							V-273563(CCV)
LLCCV [aq] V-274418	1	LLCCV	17:21	34		AQUEO	AQUEO	SW846	66498		V-274418(LLICV/LLCCV aq)
CCB	1	CCB	17:24	35							0
AD02771-001	1	SMP	17:28	36	MET-TAL6010W	AQUEO	AQUEO	SW846	66498		0
AD02771-002	1	SMP	17:31	37	MET-TAL6010W	AQUEO	AQUEO	SW846	66498		0
AD02671-001	1	SMP	17:35	38	MET-3-SOIL	AQUEO	AQUEO	SW846	66498		0
AD02671-002	1	SMP	17:38	39	MET-3-SOIL	AQUEO	AQUEO	SW846	66498		0
AD02671-004	1	SMP	17:41	40	MET-3-SOIL	AQUEO	AQUEO	SW846	66498		0
AD02671-005	1	SMP	17:45	41	MET-3-SOIL	AQUEO	AQUEO	SW846	66498		0
AD02799-002	1	SMP	17:48	42	MET-TAL6010W	AQUEO	AQUEO	SW846	66498	Na over LR	0
ICSA V-273217	1	ICSA	17:53	43							V-273217(ICSA)
ICSAB V-273219	1	ICSAB	17:57	44							V-273219(ICSAB)
CCV V-273563	1	CCV	18:01	45							V-273563(CCV)
LLCCV [aq] V-274418	1	LLCCV	18:03	46		AQUEO	AQUEO	SW846	66498		V-274418(LLICV/LLCCV aq)
CCB	1	CCB	18:07	47							0

Comments/Reviewedby:

sean
192.168.1.89 3/1/2018 10:43:57 AM

OK

3/2/18

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICP2A\SW22208C2.txt

Analysis Date: 02/28/18 **Instrument:** PEICP2A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-273721	1	CAL	18:14	1							V-273721(ICB/CCB)
CALST1 V-270575	1	CAL	18:18	2							V-270575(ICS1 Lowest std)
CALST2 V-273214	1	CAL	18:22	3							V-273214(ICS2- Low Std)
CALST3 V-273216	1	CAL	18:25	4							V-273216(ICS3 - Middle Std)
CALST4 V-272853	1	CAL	18:30	5							V-272853(ICS4 High std)
ICS3 V-273216	1	ICS	18:35	6							V-273216(ICS3 - Middle Std)
ICV V-273563	1	ICV	18:40	7							V-273563(CCV)
LLICV [aq] V-274418	1	LLICV	18:45	8		AQUEO	AQUEO	SW846	66498		V-274418(LLICV/LLCCV aq)
ICB V-273721	1	ICB	18:49	9							V-273721(ICB/CCB)
ICSA V-273217	1	ICSA	18:52	10							V-273217(ICSA)
ICSAB V-273219	1	ICSAB	18:58	11							V-273219(ICSAB)
AD02671-003	1	SMP	19:03	12	MET-3-SOIL	AQUEO	AQUEO	SW846	66498		0
AD02671-003	1	MR	19:07	13	MET-3-SOIL	AQUEO	AQUEO	SW846	66498		0
AD02671-003	1	MS	19:10	14	MET-3-SOIL	AQUEO	AQUEO	SW846	66498		0
AD02671-003	1	MSD	19:15	15	MET-3-SOIL	AQUEO	AQUEO	SW846	66498		0
AD02671-003	1	PS	19:21	16	MET-3-SOIL	AQUEO	AQUEO	SW846	66498		0
AD02671-003	5	SD	19:26	17	MET-3-SOIL	AQUEO	AQUEO	SW846	66498		0
CCV V-273563	1	CCV	19:29	18							V-273563(CCV)
LLCCV [aq] V-274418	1	LLCCV	19:34	19		AQUEO	AQUEO	SW846	66498		V-274418(LLICV/LLCCV aq)
CCB	1	CCB	19:38	20							0
AD02771-001	1	SMP	19:41	21	MET-TAL6010W	AQUEO	AQUEO	SW846	66498		0
AD02771-002	1	SMP	19:45	22	MET-TAL6010W	AQUEO	AQUEO	SW846	66498		0
AD02671-001	1	SMP	19:48	23	MET-3-SOIL	AQUEO	AQUEO	SW846	66498		0
AD02671-002	1	SMP	19:53	24	MET-3-SOIL	AQUEO	AQUEO	SW846	66498		0
AD02671-004	1	SMP	19:57	25	MET-3-SOIL	AQUEO	AQUEO	SW846	66498		0
AD02671-005	1	SMP	20:00	26	MET-3-SOIL	AQUEO	AQUEO	SW846	66498		0
AD02799-002	1	SMP	20:04	27	MET-TAL6010W	AQUEO	AQUEO	SW846	66498		0
ICSA V-273217	1	ICSA	20:08	28							V-273217(ICSA)
ICSAB V-273219	1	ICSAB	20:13	29							V-273219(ICSAB)
CCV V-273563	1	CCV	20:19	30							V-273563(CCV)
LLCCV [aq] V-274418	1	LLCCV	20:24	31		AQUEO	AQUEO	SW846	66498		V-274418(LLICV/LLCCV aq)
CCB	1	CCB	20:27	32							0
AD02668-001	1	SMP	20:31	33	MET-1-SOIL	AQUEO	AQUEO	SW846	66498		0
AD02668-002	1	SMP	20:34	34	MET-1-SOIL	AQUEO	AQUEO	SW846	66498		0
AD02668-003	1	SMP	20:38	35	MET-1-SOIL	AQUEO	AQUEO	SW846	66498		0
AD02668-004	1	SMP	20:42	36	MET-1-SOIL	AQUEO	AQUEO	SW846	66498		0
AD02668-005	1	SMP	20:45	37	MET-1-SOIL	AQUEO	AQUEO	SW846	66498		0
AD02668-006	1	SMP	20:49	38	MET-1-SOIL	AQUEO	AQUEO	SW846	66498		0
AD02668-007	1	SMP	20:52	39	MET-1-SOIL	AQUEO	AQUEO	SW846	66498		0
ICSA V-273217	1	ICSA	20:57	40							V-273217(ICSA)
ICSAB V-273219	1	ICSAB	21:03	41							V-273219(ICSAB)
CCV V-273563	1	CCV	21:09	42							V-273563(CCV)
LLCCV [aq] V-274418	1	LLCCV	21:14	43		AQUEO	AQUEO	SW846	66498		V-274418(LLICV/LLCCV aq)
CCB	1	CCB	21:17	44							0

Comments/Reviewedby:

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sean
192.168.1.89 3/1/2018 10:56:36 AM

OK

3/2/18

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\PEICPRAD2A\SW22213A2.txt

Analysis Date: 02/28/18 **Instrument:** PEICPRAD2A

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
CALBLK V-273721	1	CAL	21:23	1							V-273721(ICB/CCB)
CALST2 V-273214	1	CAL	21:27	2							V-273214(ICS2- Low Std)
CALST3 V-273216	1	CAL	21:30	3							V-273216(ICS3 - Middle Std)
CALST4 V-272853	1	CAL	21:33	4							V-272853(ICS4 High std)
ICS3 V-273216	1	ICS	21:36	5							V-273216(ICS3 - Middle Std)
ICV V-273563	1	ICV	21:39	6							V-273563(CCV)
LLICV [aq] V-274418	1	LLICV	21:42	7		AQUEO	AQUEO	SW846	66504		V-274418(LLICV/LLCCV aq)
ICB V-273721	1	ICB	21:45	8							V-273721(ICB/CCB)
ICSA V-273217	1	ICSA	21:49	9							V-273217(ICSA)
ICSAB V-273219	1	ICSAB	21:52	10							V-273219(ICSAB)
MB 66504 (1)	1	MB	21:56	11		AQUEO	AQUEO	SW846	66504		0
LCSW 66504	1	LCS	22:00	12		AQUEO	AQUEO	SW846	66504		0
LCSW MR 66504	1	LCS	22:03	13		AQUEO	AQUEO	SW846	66504		0
AD02709-001	1	NA	22:06	14	MET-1-SOIL	AQUEO	AQUEO	SW846	66504	Na over LR	0
AD02709-001	1	NA	22:10	15	MET-1-SOIL	AQUEO	AQUEO	SW846	66504	Na over LR	0
AD02709-001	1	NA	22:15	16	MET-1-SOIL	AQUEO	AQUEO	SW846	66504	Na over LR	0
AD02709-001	1	NA	22:19	17	MET-1-SOIL	AQUEO	AQUEO	SW846	66504	Na over LR	0
AD02709-001	1	NA	22:23	18	MET-1-SOIL	AQUEO	AQUEO	SW846	66504	Na over LR	0
CCV V-273563	1	CCV	22:28	19							V-273563(CCV)
LLCCV [aq] V-274418	1	LLCCV	22:30	20		AQUEO	AQUEO	SW846	66504		V-274418(LLICV/LLCCV aq)
CCB	1	CCB	22:34	21							0
AD02709-001	1	NA	22:37	22	MET-1-SOIL	AQUEO	AQUEO	SW846	66504		0
AD02710-001	1	SMP	22:41	23	MET-1-SOIL	AQUEO	AQUEO	SW846	66504		0
AD02710-002	1	SMP	22:44	24	MET-1-SOIL	AQUEO	AQUEO	SW846	66504		0
AD02710-003	1	SMP	22:47	25	MET-1-SOIL	AQUEO	AQUEO	SW846	66504		0
AD02713-001	1	SMP	22:50	26	MET-1-SOIL	AQUEO	AQUEO	SW846	66504		0
AD02713-002	1	SMP	22:53	27	MET-1-SOIL	AQUEO	AQUEO	SW846	66504		0
AD02713-003	1	SMP	22:56	28	MET-1-SOIL	AQUEO	AQUEO	SW846	66504		0
ICSA V-273217	1	ICSA	23:00	29							V-273217(ICSA)
ICSAB V-273219	1	ICSAB	23:04	30							V-273219(ICSAB)
CCV V-273563	1	CCV	23:08	31							V-273563(CCV)
LLCCV [aq] V-274418	1	LLCCV	23:11	32		AQUEO	AQUEO	SW846	66504		V-274418(LLICV/LLCCV aq)
CCB	1	CCB	23:14	33							0
AD02753-001	1	SMP	23:17	34	MET-1-SOIL	AQUEO	AQUEO	SW846	66504		0
AD02753-002	1	SMP	23:21	35	MET-1-SOIL	AQUEO	AQUEO	SW846	66504		0
AD02753-003	1	SMP	23:25	36	MET-1-SOIL	AQUEO	AQUEO	SW846	66504		0
AD02799-002	2	SMP	23:28	37	MET-TAL6010W	AQUEO	AQUEO	SW846	66498	Na dilution	0
ICSA V-273217	1	ICSA	23:32	38							V-273217(ICSA)
ICSAB V-273219	1	ICSAB	23:36	39							V-273219(ICSAB)
CCV V-273563	1	CCV	23:40	40							V-273563(CCV)
LLCCV [aq] V-274418	1	LLCCV	23:43	41		AQUEO	AQUEO	SW846	66504		V-274418(LLICV/LLCCV aq)
CCB	1	CCB	23:46	42							0

Comments/Reviewedby:

sean
192.168.1.89 3/1/2018 12:10:53 PM

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Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor:_____

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS2_7500SWA\A022818A.b\A022818A.TXT

Analysis Date: 02/28/18 **Instrument:** MS2_7500SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
Rinse	1	NA	10:58	1		AQUEO	AQUEO	SW846	66454		0
CalBlk V-274288	1	ISBLK	11:04	2		AQUEO	AQUEO				V-274288(Cal Blk WARNING)
CalStd1 V-274289	1	CAL	11:10	3							V-274289(Cal Std-1 WARNING)
CalStd2 V-274290	1	CAL	11:15	4							V-274290(Cal Std-2 WARNING)
CalStd3 V-274291	1	CAL	11:21	5							V-274291(Cal Std-3 WARNING)
CalStd4 V-274292	1	CAL	11:27	6							V-274292(Cal Std-4 WARNING)
CalStd5 V-274293	1	CAL	11:33	7							V-274293(Cal Std-5 WARNING)
ICV V-274294	1	ICV	11:39	8							V-274294(ICV WARNING)
LLICV V-274300	1	LLICV	11:45	9		AQUEO	AQUEO	SW846	66454		V-274300(LL-ICV/CCV AQ. WARNING)
ICB V-274295	1	ICB	11:51	10							V-274295(ICB/CCB WARNING)
ICSA V-274296	1	ICSA	11:56	11							V-274296(ICSA WARNING)
ICSAB V-274297	1	ICSAB	12:02	12							V-274297(ICSAB WARNING)
RINSE	1	NA	12:08	13		AQUEO	AQUEO	SW846	66454		0
AD02643-006	1	SMP	12:14	14	MET-TAL6020W	AQUEO	AQUEO	SW846	66454	Report Pb.	0
AD02639-001	2	SMP	12:20	15	MET-TAL6020W	AQUEO	AQUEO	SW846	66454	Report As, Se.	0
AD02639-010	2	SMP	12:26	16	MET-TAL6020W	AQUEO	AQUEO	SW846	66454	Report As, Se.	0
RINSE	1	NA	12:32	17		AQUEO	AQUEO	SW846	66454		0
CCV V-274298	1	CCV	12:38	18							V-274298(CCV WARNING)
LLCCV V-274300	1	LLCCV	12:44	19		AQUEO	AQUEO	SW846	66454		V-274300(LL-ICV/CCV AQ. WARNING)
CCB V-274295	1	CCB	12:50	20							V-274295(ICB/CCB WARNING)
MB 66498	1	MB	12:56	21		AQUEO	AQUEO	SW846	66498		0
LCS 66498	1	LCS	13:01	22		AQUEO	AQUEO	SW846	66498		0
LCS MR 66498	1	LCS	13:07	23		AQUEO	AQUEO	SW846	66498		0
AD02743-006	1	SMP	13:13	24	MET-TAL6020W	AQUEO	AQUEO	SW846	66498		0
AD02743-007	1	SMP	13:19	25	MET-TAL6020W	AQUEO	AQUEO	SW846	66498		0
AD02743-009	1	SMP	13:25	26	MET-TAL6020W	AQUEO	AQUEO	SW846	66498		0
RINSE	1	NA	13:31	27		AQUEO	AQUEO	SW846	66498		0
CCV V-274298	1	CCV	13:37	28							V-274298(CCV WARNING)
LLCCV V-274300	1	LLCCV	13:43	29		AQUEO	AQUEO	SW846	66498		V-274300(LL-ICV/CCV AQ. WARNING)
CCB V-274295	1	CCB	13:49	30							V-274295(ICB/CCB WARNING)

Comments/Reviewedby:

pcousineau
192.168.1.28 2/28/2018 2:03:23 PM

B-22168 Report Pb for 02643-006. Report As, Se for 02639-001, 010.
B-22208 Report As, Be, Cd, Co, Pb, Sb, Se, Tl for MB, LCS, LCS MR, 02743-006, 007, 009. PC.

3/2/18

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: 20 2/27 M

Standard/Batch/SnCl2 Lot #:

Run Log

Data File: W:\METALS.FRM\ICPDATA\New\MS2_7500SWA\A030118A.b\A030118A.TXT

Analysis Date: 03/01/18 **Instrument:** MS2_7500SWA

Sample Id	DF	Qc Type	Time	Run #	Test Group	Rept Limit Matrix	Qc Matrix	Anal Method	Prep Batch	Comments:	Stds:
Rinse	1	NA	10:50	1		AQUEO	AQUEO	SW846	66498		0
CalBlk V-274288	1	ISBLK	10:56	2		AQUEO	AQUEO				V-274288(Cal Blk WARNING)
CalStd1 V-274289	1	CAL	11:02	3							V-274289(Cal Std-1 WARNING)
CalStd2 V-274290	1	CAL	11:08	4							V-274290(Cal Std-2 WARNING)
CalStd3 V-274291	1	CAL	11:13	5							V-274291(Cal Std-3 WARNING)
CalStd4 V-274292	1	CAL	11:19	6							V-274292(Cal Std-4 WARNING)
CalStd5 V-274293	1	CAL	11:25	7							V-274293(Cal Std-5 WARNING)
ICV V-274294	1	ICV	11:31	8							V-274294(ICV WARNING)
LLICV V-274300	1	LLICV	11:37	9		AQUEO	AQUEO	SW846	66498		V-274300(LL-ICV/CCV AQ. WARNING)
ICB V-274295	1	ICB	11:43	10							V-274295(ICB/CCB WARNING)
ICSA V-274296	1	ICSA	11:49	11							V-274296(ICSA WARNING)
ICSAB V-274297	1	ICSAB	11:54	12							V-274297(ICSAB WARNING)
RINSE	1	NA	12:00	13		AQUEO	AQUEO	SW846	66498		0
AD02671-003	1	SMP	12:06	14	MET-3-6020	AQUEO	AQUEO	SW846	66498		0
AD02671-003	1	MR	12:12	15	MET-3-6020	AQUEO	AQUEO	SW846	66498		0
AD02671-003	5	SD	12:18	16	MET-3-6020	AQUEO	AQUEO	SW846	66498		0
AD02671-003	1	MS	12:23	17	MET-3-6020	AQUEO	AQUEO	SW846	66498		0
AD02671-003	1	MSD	12:29	18	MET-3-6020	AQUEO	AQUEO	SW846	66498		0
AD02671-003	1	PS	12:35	19	MET-3-6020	AQUEO	AQUEO	SW846	66498		0
RINSE	1	NA	12:41	20		AQUEO	AQUEO	SW846	66498		0
CCV V-274298	1	CCV	12:47	21							V-274298(CCV WARNING)
LLCCV V-274300	1	LLCCV	12:53	22		AQUEO	AQUEO	SW846	66498		V-274300(LL-ICV/CCV AQ. WARNING)
CCB V-274295	1	CCB	12:59	23							V-274295(ICB/CCB WARNING)
AD02771-001	1	SMP	13:04	24	MET-TAL6020W	AQUEO	AQUEO	SW846	66498		0
AD02771-002	1	SMP	13:10	25	MET-TAL6020W	AQUEO	AQUEO	SW846	66498		0
AD02671-001	1	SMP	13:16	26	MET-3-6020	AQUEO	AQUEO	SW846	66498		0
AD02671-002	1	SMP	13:22	27	MET-3-6020	AQUEO	AQUEO	SW846	66498		0
AD02671-004	1	SMP	13:28	28	MET-3-6020	AQUEO	AQUEO	SW846	66498		0
AD02671-005	1	SMP	13:34	29	MET-3-6020	AQUEO	AQUEO	SW846	66498		0
AD02799-002	1	SMP	13:39	30	MET-TAL6020W	AQUEO	AQUEO	SW846	66498		0
RINSE	1	NA	13:45	31		AQUEO	AQUEO	SW846	66498		0
CCV V-274298	1	CCV	13:51	32							V-274298(CCV WARNING)
LLCCV V-274300	1	LLCCV	13:57	33		AQUEO	AQUEO	SW846	66498		V-274300(LL-ICV/CCV AQ. WARNING)
CCB V-274295	1	CCB	14:03	34							V-274295(ICB/CCB WARNING)

Comments/Reviewedby:

sean
192.168.1.89 3/1/2018 3:08:36 PM

OK

3/2/18

Note: ICP-MS dilution factor column does not reflect dilution which is performed prior to analysis. Secondary analytical dilution is documented on prep log. Dilution Factor: 2X 2/22

Standard/Batch/SnCl2 Lot #:

ICPMS Internal Standard Summary Report

TuneID: 1

Batch/FileID: A022818A Sample ID: CalBlk V-274288 Sample Date 02/28/18 Sample Time: 11:04

IS ID:	Area	Area Limit
Ho-1	1403932	982752.4 - 2107301.932
In-1	556341.8	389439.26 - 835069.0418
Sc-1	129088.3	90361.81 - 193761.5383
Tb-1	1424815	997370.5 - 2138647.315

QcType	txtSamId:	Pos	Ho-1 Area	In-1 Area	Sc-1 Area	Tb-1 Area	Area	Area	Area	Area
ISBLK	CalBlk V-274288	2	1403932	556341.8	129088.3	1424815				
SMP	Rinse	1	1287853	485333.2	115757.0	1298588				
CAL	CalStd1 V-27428	3	1401237	565155.5	131286.1	1407642				
CAL	CalStd2 V-27429	4	1423035	572941.3	132797.1	1442495				
CAL	CalStd3 V-27429	5	1399237	565023.5	133456.5	1413094				
CAL	CalStd4 V-27429	6	1430528	560930.8	137276.0	1442200				
CAL	CalStd5 V-27429	7	1426426	565728.1	138243.7	1438279				
ICV	ICV V-274294	8	1456500	585029.7	140059.1	1473319				
LLICV	LLICV V-274300	9	1424461	577305.1	133848.8	1432047				
ICB	ICB V-274295	10	1446360	586600.3	136275.1	1465932				
ICSA	ICSA V-274296	11	1330845	514962.8	143089.5	1333545				
ICSAB	ICSAB V-274297	12	1347155	519968.4	136471.4	1364843				
SMP	RINSE	13	1496727	610350.8	140423.7	1515724				
SMP	AD02643-006	14	1495538	604758.4	138488.4	1526178				
SMP	AD02639-001	15	1146542	428216.8	122904.3	1153392				
SMP	AD02639-010	16	1142415	426443.3	124549.7	1147658				
SMP	RINSE	17	1504915	617019.4	152289.0	1517348				
CCV	CCV V-274298	18	1438703	589732.9	149559.7	1448446				
LLCCV	LLCCV V-274300	19	1464817	606278.3	146370.3	1491543				
CCB	CCB V-274295	20	1449837	608469.9	146082.2	1453616				
MB	MB 66498	21	1370796	557614.1	139028.3	1386373				
LCS	LCS 66498	22	1379812	532213.0	137148.7	1380564				
MR	LCS MR 66498	23	1359292	527995.4	132523.0	1369295				
SMP	AD02743-006	24	1263392	468310.3	131971.8	1262717				
SMP	AD02743-007	25	1361597	539587.1	128506.1	1384578				
SMP	AD02743-009	26	1281453	484193.4	133254.3	1285850				
SMP	RINSE	27	1496263	617153.6	142265.3	1501367				
CCV	CCV V-274298	28	1439571	579463.2	141222.7	1442653				
LLCCV	LLCCV V-274300	29	1465399	607296.6	141461.3	1471675				
CCB	CCB V-274295	30	1457454	596963.8	139504.7	1475984				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

Batch/FileID: A022818A Sample ID: CalBlk V-274288 Sample Date 02/28/18 Sample Time: 11:04

IS ID:	Area	Area Limit
Ho-2	2826725	1978707.5 - 4242914.225
In-2	1851091	1295763.7 - 2778487.591
Sc-2	1375882	963117.4 - 2065198.882
Tb-2	2834858	1984400.6 - 4255121.858

QcType	txtSamId:	Pos	Ho-2 Area	In-2 Area	Sc-2 Area	Tb-2 Area	Area	Area	Area	Area
ISBLK	CalBlk V-274288	2	2826725	1851091	1375882	2834858				
SMP	Rinse	1	2644868	1743330	1300301	2668004				
CAL	CalStd1 V-27428	3	2679592	1732753	1286254	2667091				
CAL	CalStd2 V-27429	4	2703605	1751571	1321396	2725092				
CAL	CalStd3 V-27429	5	2619964	1703266	1284714	2640672				
CAL	CalStd4 V-27429	6	2683027	1706269	1307047	2694456				
CAL	CalStd5 V-27429	7	2508818	1588319	1240390	2524789				
ICV	ICV V-274294	8	2756339	1740904	1319845	2731761				
LLICV	LLICV V-274300	9	2711398	1729885	1292601	2726312				
ICB	ICB V-274295	10	2704853	1729071	1284608	2692637				
ICSA	ICSA V-274296	11	2575652	1594206	1350544	2567558				
ICSAB	ICSAB V-274297	12	2587967	1604108	1339808	2568690				
SMP	RINSE	13	2779148	1832603	1341763	2797968				
SMP	AD02643-006	14	2811836	1821247	1345901	2826012				
SMP	AD02639-001	15	2218310	1370713	1263246	2228102				
SMP	AD02639-010	16	2189169	1361322	1274628	2194343				
SMP	RINSE	17	2856335	1901198	1466163	2891557				
CCV	CCV V-274298	18	2791470	1804071	1426465	2801514				
LLCCV	LLCCV V-274300	19	2796946	1824577	1383838	2827354				
CCB	CCB V-274295	20	2786159	1810973	1388118	2784848				
MB	MB 66498	21	2574088	1650989	1272437	2585032				
LCS	LCS 66498	22	2536866	1573735	1251877	2557945				
MR	LCS MR 66498	23	2505868	1563613	1232387	2524653				
SMP	AD02743-006	24	2355404	1423342	1287269	2368457				
SMP	AD02743-007	25	2519140	1593133	1196654	2524518				
SMP	AD02743-009	26	2418758	1461142	1271687	2409873				
SMP	RINSE	27	2823039	1839683	1351778	2821638				
CCV	CCV V-274298	28	2689910	1701148	1325994	2706763				
LLCCV	LLCCV V-274300	29	2755470	1795380	1330579	2727512				
CCB	CCB V-274295	30	2741184	1788298	1326474	2753941				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 1

Batch/FileID: A030118A Sample ID: CalBlk V-274288 Sample Date 03/01/18 Sample Time: 10:56

IS ID:	Area	Area Limit
Ho-1	1369251	958475.7 - 2055245.751
In-1	549428.4	384599.88 - 824692.0284
Sc-1	129818.6	90873.02 - 194857.7186
Tb-1	1375156	962609.2 - 2064109.156

QcType	txtSamId:	Pos	Ho-1 Area	In-1 Area	Sc-1 Area	Tb-1 Area	Area	Area	Area	Area
ISBLK	CalBlk V-274288	2	1369251	549428.4	129818.6	1375156				
SMP	Rinse	1	1245933	479009.8	115158.3	1266669				
CAL	CalStd1 V-27428	3	1396011	561748.4	133196.0	1402682				
CAL	CalStd2 V-27429	4	1410932	583674.3	141710.0	1434870				
CAL	CalStd3 V-27429	5	1417551	580877.9	140410.6	1436579				
CAL	CalStd4 V-27429	6	1394188	567151.0	139731.3	1415339				
CAL	CalStd5 V-27429	7	1397506	565436.7	142411.4	1415856				
ICV	ICV V-274294	8	1400446	567832.6	136082.9	1418946				
LLICV	LLICV V-274300	9	1434602	593279.4	139864.1	1456854				
ICB	ICB V-274295	10	1433981	587958.3	138062.2	1446560				
ICSA	ICSA V-274296	11	1272821	496960.5	140350.0	1298030				
ICSAB	ICSAB V-274297	12	1331326	524240.3	137465.5	1351571				
SMP	RINSE	13	1521001	624846.1	144852.0	1524176				
SMP	AD02671-003	14	1351630	524054.0	127292.2	1366406				
MR	AD02671-003	15	1367197	534263.3	129803.9	1373227				
SD	AD02671-003	16	1449421	582785.4	134340.5	1457458				
MS	AD02671-003	17	1313964	509760.9	131868.8	1327925				
MSD	AD02671-003	18	1302566	502474.2	125961.2	1311931				
PS	AD02671-003	19	1292705	498109.9	125379.4	1297286				
SMP	RINSE	20	1454189	596843.9	135302.0	1482067				
CCV	CCV V-274298	21	1398679	566290.0	136034.6	1392269				
LLCCV	LLCCV V-274300	22	1428454	576941.2	135555.9	1430066				
CCB	CCB V-274295	23	1408336	574568.6	134014.7	1423512				
SMP	AD02771-001	24	1321395	520227.7	127047.9	1317968				
SMP	AD02771-002	25	1334254	531953.6	128329.3	1342867				
SMP	AD02671-001	26	1365111	509945.9	135361.0	1377122				
SMP	AD02671-002	27	1333965	512835.3	124260.7	1334288				
SMP	AD02671-004	28	1296420	500887.7	127106.8	1310360				
SMP	AD02671-005	29	1327403	510308.1	124399.6	1332231				
SMP	AD02799-002	30	1208747	455177.2	119387.4	1205445				
SMP	RINSE	31	1459733	601449.9	137895.2	1472817				
CCV	CCV V-274298	32	1380566	569908.3	139210.6	1400922				
LLCCV	LLCCV V-274300	33	1428056	599989.5	140153.2	1443329				
CCB	CCB V-274295	34	1402647	576125.0	135408.1	1410175				

* Indicates Internal Standard Area outside of limits

ICPMS Internal Standard Summary Report

TuneID: 2

Batch/FileID: A030118A Sample ID: CalBlk V-274288 Sample Date 03/01/18 Sample Time: 10:56

IS ID:	Area	Area Limit		
Ho-2	2704826	1893378.2	-	4059943.826
In-2	1801474	1261031.8	-	2704012.474
Sc-2	1340091	938063.7	-	2011476.591
Tb-2	2717503	1902252.1	-	4078972.003

QcType	txtSamId:	Pos	Ho-2 Area	In-2 Area	Sc-2 Area	Tb-2 Area	Area	Area	Area	Area
ISBLK	CalBlk V-274288	2	2704826	1801474	1340091	2717503				
SMP	Rinse	1	2616986	1747425	1351585	2610386				
CAL	CalStd1 V-27428	3	2732214	1806443	1375917	2745987				
CAL	CalStd2 V-27429	4	2742364	1827586	1395141	2761058				
CAL	CalStd3 V-27429	5	2746918	1807878	1406163	2762787				
CAL	CalStd4 V-27429	6	2728467	1776971	1401589	2719984				
CAL	CalStd5 V-27429	7	2738590	1774404	1413320	2718971				
ICV	ICV V-274294	8	2719855	1760165	1352048	2745887				
LLICV	LLICV V-274300	9	2811294	1834020	1378255	2799028				
ICB	ICB V-274295	10	2743909	1824628	1364886	2775410				
ICSA	ICSA V-274296	11	2580775	1660385	1439412	2590219				
ICSAB	ICSAB V-274297	12	2596235	1664030	1378697	2627067				
SMP	RINSE	13	2909613	1913984	1419880	2945422				
SMP	AD02671-003	14	2552828	1604898	1231248	2535567				
MR	AD02671-003	15	2559832	1602677	1227333	2573804				
SD	AD02671-003	16	2758189	1785638	1326624	2777385				
MS	AD02671-003	17	2480739	1522265	1220341	2478706				
MSD	AD02671-003	18	2437264	1511182	1212158	2448699				
PS	AD02671-003	19	2434071	1509208	1217381	2452489				
SMP	RINSE	20	2779945	1819633	1318817	2800473				
CCV	CCV V-274298	21	2702252	1719248	1342862	2708266				
LLCCV	LLCCV V-274300	22	2728616	1766286	1334861	2744264				
CCB	CCB V-274295	23	2718690	1770983	1329574	2743444				
SMP	AD02771-001	24	2513087	1592267	1227396	2515174				
SMP	AD02771-002	25	2519391	1570441	1201050	2507079				
SMP	AD02671-001	26	2616971	1569824	1350285	2615395				
SMP	AD02671-002	27	2519022	1556099	1218411	2494837				
SMP	AD02671-004	28	2450454	1510315	1214204	2451039				
SMP	AD02671-005	29	2494008	1530963	1199055	2505739				
SMP	AD02799-002	30	2335978	1434905	1218236	2335817				
SMP	RINSE	31	2805697	1846494	1353128	2836681				
CCV	CCV V-274298	32	2705103	1739814	1353043	2732527				
LLCCV	LLCCV V-274300	33	2720505	1779058	1326206	2727758				
CCB	CCB V-274295	34	2716675	1774152	1342388	2743771				

lard Area outside of limits

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-268728

Prepared By: Aliano, Carmela
Description: 1:1 HCl WARNING
Prep Date: 12/6/2017
Expiration Date: 5/6/2018
Department: Metals
BatchNumber:
Concentration: Reagent reag
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 12/08/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O	500 ml		
11301	Hydrochloric Acid	500 ml	neat neat	

Veritech Lot Number: V-270556

Prepared By: Berls, Sean R.
Description: ICS 1 INTERMEDIATE
Prep Date: 1/2/2018
Expiration Date: 4/1/2018
Department: Metals
BatchNumber:
Concentration: various mg/l
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 01/02/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
11242	Nitric Acid	5 ml	NEAT neat	
11354	BERYLLIUM	.3 ml	1000 ug/ml	3 mg/l
11356	CADMIUM	.3 ml	1000 ug/ml	3 mg/l

Veritech Lot Number: V-270575

Prepared By: Berls, Sean R.
Description: ICS1 Lowest std
Prep Date: 1/2/2018
Expiration Date: 4/1/2018
Department: Metals
BatchNumber:
Concentration: various mg/l
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 01/02/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
11242	Nitric Acid	50 ml	NEAT neat	
11301	Hydrochloric Acid	50 ml	neat neat	
V-270556	ICS 1 INTERMEDIATE	1 ml	various mg/l	

Veritech Lot Number: V-272853

Prepared By: Berls, Sean R.
Description: ICS4 High std
Prep Date: 2/5/2018
Expiration Date: 5/4/2018
Department: Metals
BatchNumber:
Concentration: various mg/l
Final Volume: 500 ml
ApprovedBy: sean
ApproveDate: 02/06/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
11333	Nitric Acid	25 ml	neat neat	
11186	HYDROCHLORIC ACID	25 ml	neat neat	
11063	CALIBRATION STOCK 1	5 ml	NEAT neat	
11062	CALIBRATION STOCK 2	5 ml	NEAT neat	

Veritech Lot Number: V-273214

Prepared By: Berls, Sean R.
Description: ICS2- Low Std
Prep Date: 2/9/2018
Expiration Date: 5/8/2018
Department: Metals
BatchNumber:
Concentration: MULTI multi
Final Volume: 500 ml
ApprovedBy: sean
ApproveDate: 02/12/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
11333	Nitric Acid	25 ml	neat neat	
11301	Hydrochloric Acid	25 ml	neat neat	
11063	CALIBRATION STOCK 1	.05 ml	NEAT neat	
11062	CALIBRATION STOCK 2	.05 ml	NEAT neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-273216

Prepared By: Berls, Sean R.
Description: ICS3 - Middle Std
Prep Date: 2/9/2018
Expiration Date: 5/8/2018
Department: Metals
BatchNumber:
Concentration: MULTI multi
Final Volume: 1000 ml
ApprovedBy: sean
ApproveDate: 02/12/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
11333	Nitric Acid	50 ml	neat neat	
11301	Hydrochloric Acid	50 ml	neat neat	
11063	CALIBRATION STOCK 1	5 ml	NEAT neat	
11062	CALIBRATION STOCK 2	5 ml	NEAT neat	

Veritech Lot Number: V-273217

Prepared By: Berls, Sean R.
Description: ICSA
Prep Date: 2/9/2018
Expiration Date: 5/8/2018
Department: Metals
BatchNumber:
Concentration: MULTI mg/l
Final Volume: 1000 ml
ApprovedBy: sean
ApproveDate: 02/12/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
11333	Nitric Acid	50 ml	neat neat	
11301	Hydrochloric Acid	50 ml	neat neat	
11064	ICSA	50 ml	NEAT neat	

Veritech Lot Number: V-273219

Prepared By: Berls, Sean R.
Description: ICSAB
Prep Date: 2/9/2018
Expiration Date: 5/8/2018
Department: Metals
BatchNumber:
Concentration: MULTI mg/l
Final Volume: 1000 ml
ApprovedBy: sean
ApproveDate: 02/12/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
11333	Nitric Acid	50 ml	neat neat	
11301	Hydrochloric Acid	50 ml	neat neat	
11064	ICSA	50 ml	NEAT neat	
11237	ICSAB	10 ml	neat neat	

Veritech Lot Number: V-273563

Prepared By: Berls, Sean R.
Description: CCV
Prep Date: 2/14/2018
Expiration Date: 4/30/2018
Department: Metals
BatchNumber:
Concentration: MULTI multi
Final Volume: 1000 ml
ApprovedBy: sean
ApproveDate: 02/15/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
11421	Nitric Acid	50 ml	neat neat	
11301	Hydrochloric Acid	50 ml	neat neat	
10892	ICV 1	10 ml	NEAT neat	
10891	ICV 2	10 ml	NEAT neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-273721

Prepared By:	Balashanthan, Shiamala	Department:	Metals	ApprovedBy:	sean
Description:	ICB/CCB	BatchNumber:		ApproveDate:	02/15/18
Prep Date:	2/15/2018	Concentration:	0 mg/l	Checked:	Yes
Expiration Date:	5/14/2018	Final Volume:	1000 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
11447	Nitric Acid	50 ml	neat neat	
11448	Hydrochloric Acid	50 ml	neat neat	

Veritech Lot Number: V-274418

Prepared By:	Berls, Sean R.	Department:	Metals	ApprovedBy:	sean
Description:	LLICV/LLCCV aq	BatchNumber:		ApproveDate:	03/01/18
Prep Date:	2/26/2018	Concentration:	MULTI multi	Checked:	Yes
Expiration Date:	5/25/2018	Final Volume:	500 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
11421	Nitric Acid	25 ml	neat neat	
11420	Hydrochloric Acid	25 ml	neat neat	
11031	LL-AQUEOUS	5 ml	NEAT neat	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 10891

Description: ICV 2

ApprovedBy: shiamala
ApproveDate: 05/22/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SCP SCIENCE	600-225-102	S170329033	04/18/17	04/30/18	Aliano, Carmela	3	500ml	NEAT	NEAT

Veritech Control/Receipt Number: 10892

Description: ICV 1

ApprovedBy: shiamala
ApproveDate: 05/22/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SCP SCIENCE	600-225-101	S170329022	04/18/17	04/30/18	Aliano, Carmela	3	500m	NEAT	NEAT

Veritech Control/Receipt Number: 11031

Description: LL-AQUEOUS

ApprovedBy: shiamala
ApproveDate: 07/14/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	XHCV-24-500	43-181CR	06/24/17	06/30/18	Aliano, Carmela	1	500ml	NEAT	NEAT

Veritech Control/Receipt Number: 11062

Description: CALIBRATION STOCK 2

ApprovedBy: sean
ApproveDate: 08/23/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	XHCV-20-500	43-267CR	07/13/17	07/30/18	Aliano, Carmela	2	500ml	NEAT	NEAT

Veritech Control/Receipt Number: 11063

Description: CALIBRATION STOCK 1

ApprovedBy: sean
ApproveDate: 08/23/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	XHCV-19-500	43-266CR	07/13/17	07/30/18	Aliano, Carmela	2	500ml	NEAT	NEAT

Veritech Control/Receipt Number: 11064

Description: ICSA

ApprovedBy: sean
ApproveDate: 11/08/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	XHCV-30	43-268CR	07/13/17	07/30/18	Aliano, Carmela	2	500ml	NEAT	NEAT

Veritech Control/Receipt Number: 11186

Description: HYDROCHLORIC ACID

ApprovedBy: sean
ApproveDate: 11/15/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.BAKER	9530-33	175648	09/26/17	05/04/22	Burwell, John	12	2.5 L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11237

Description: ICSAB

ApprovedBy: shiamala
ApproveDate: 12/06/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
scp science	600-225-103	S171011025	10/20/17	10/20/18	Aliano, Carmela	2	500ml	neat	neat

Veritech Control/Receipt Number: 11242

Description: Nitric Acid

ApprovedBy: jean
ApproveDate: 10/24/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9598-34	183840	10/24/17	08/10/22	Lopez, Jose	8	4L	NEAT	NEAT

Veritech Control/Receipt Number: 11248

Description: DI H2O

ApprovedBy: sean
ApproveDate: 10/26/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
siemanns	1	1	10/26/17	07/25/18	Berls, Sean R.	1			

Veritech Control/Receipt Number: 11301

Description: Hydrochloric Acid

ApprovedBy: sean
ApproveDate: 12/06/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9530-33	186764	11/30/17	09/29/22	Lopez, Jose	12	2.5L	neat	neat

Veritech Control/Receipt Number: 11333

Description: Nitric Acid

ApprovedBy: jean
ApproveDate: 12/19/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9598-34	187388	12/14/17	10/18/22	Burwell, John	8	2.5L	neat	neat

Veritech Control/Receipt Number: 11354

Description: BERYLLIUM

ApprovedBy: shiamala
ApproveDate: 01/31/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
PERKIN ELMER	N9300172	23-7BEY1	12/29/17	02/28/19	Aliano, Carmela	1	125ml	1000	UG/ML

Veritech Control/Receipt Number: 11356

Description: CADMIUM

ApprovedBy: shiamala
ApproveDate: 01/31/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
PERKIN ELMER	N9300176	22-116CDY1	12/29/17	06/30/19	Aliano, Carmela	1	125ml	1000	UG/ML

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11420

Description: Hydrochloric Acid

ApprovedBy: shiamala
ApproveDate: 01/31/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9530-33	186764	01/18/18	08/29/22	Burwell, John	6	2.5	neat	neat

Veritech Control/Receipt Number: 11421

Description: Nitric Acid

ApprovedBy: shiamala
ApproveDate: 01/31/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9598-34	187388	01/18/18	10/18/22	Burwell, John	4	4L	neat	neat

Veritech Control/Receipt Number: 11447

Description: Nitric Acid

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9598-34	190537	02/02/18	11/16/22	Lopez, Jose	4	2.5L	neat	neat

Veritech Control/Receipt Number: 11448

Description: Hydrochloric Acid

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9530-33	187518	02/02/18	10/10/22	Lopez, Jose	2	2.5L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11488

Description: Nitric Acid

ApprovedBy: sean
ApproveDate: 03/01/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9598-34	187388	02/12/18	10/18/22	Burwell, John	4	2.5	neat	neat

Veritech Control/Receipt Number: 11505

Description: CALIBRATION STOCK 1

ApprovedBy: sean
ApproveDate: 03/01/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	XHCV-19-500	47-059CR	02/20/18	02/28/19	Aliano, Carmela	1	500m	NEAT	NEAT

Veritech Control/Receipt Number: 11506

Description: CALIBRATION STOCK 2

ApprovedBy: sean
ApproveDate: 03/01/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	XHCV-20-500	47-060CR	02/20/18	02/28/19	Aliano, Carmela	1	500ml	NEAT	NEAT

File SW22208A2 Batch 22208 SW846

Method: PE2 4300DV AXIAL Page 1 Date: 2/28/2018 1:36:49 PM

Analyst [signature] 2/28/18

Analysis Begun

Start Time: 2/28/2018 1:33:58 PM
Logged In Analyst: shiamala
Spectrometer Model: Optima 4300 DV, S/N 077N1030901
Plasma On Time: 2/28/2018 9:38:45 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\administrator\Sample Information\02.28.18.sif
Batch ID:
Results Data Set: SW22208A2
Results Library: C:\pe\administrator\Results\Results.mdb

Method Loaded
Method Name: PE2 4300DV AXIAL
IEC File: IECax082117.iec
Method Description: 200.7/6010B/6010C
Method Last Saved: 2/28/2018 1:32:55 PM
MSF File:

Sequence No.: 1
Sample ID: CALBLK V-273721
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 2/28/2018 1:33:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALBLK V-273721

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1386335.5	21370.99	1.54%	100	%
Y 371.029	442219.1	580.12	0.13%	100	%
Ag 328.068†	1119.7	14.66	1.31%	[0.00]	mg/L
Al 308.215†	5907.5	76.50	1.30%	[0.00]	mg/L
As 188.979†	-29.4	1.70	5.79%	[0.00]	mg/L
Ba 233.527†	-66.1	12.96	19.60%	[0.00]	mg/L
Be 313.107†	1095.0	5.31	0.49%	[0.00]	mg/L
Ca 315.887†	4629.5	44.53	0.96%	[0.00]	mg/L
Cd 228.802†	115.7	14.55	12.58%	[0.00]	mg/L
Co 228.616†	-30.1	4.81	15.98%	[0.00]	mg/L
Cr 267.716†	-364.3	23.89	6.56%	[0.00]	mg/L
Cu 327.393†	235.8	1.21	0.51%	[0.00]	mg/L
Fe 273.955†	275.9	1.40	0.51%	[0.00]	mg/L
K 404.721†	-288.2	72.76	25.25%	[0.00]	mg/L
Mg 279.077†	-403.5	43.30	10.73%	[0.00]	mg/L
Mn 257.610†	1563.4	10.53	0.67%	[0.00]	mg/L
Mo 202.031†	-74.3	1.18	1.59%	[0.00]	mg/L
Na 330.237†	1366.9	2.11	0.15%	[0.00]	mg/L
Ni 231.604†	-134.3	24.15	17.98%	[0.00]	mg/L
Pb 220.353†	-226.2	15.69	6.93%	[0.00]	mg/L
Sb 206.836†	39.5	2.07	5.24%	[0.00]	mg/L
Se 196.026†	-12.1	0.82	6.80%	[0.00]	mg/L
Sn 189.927†	-25.3	1.31	5.18%	[0.00]	mg/L
Ti 334.940†	2140.8	22.05	1.03%	[0.00]	mg/L
Tl 190.801†	27.1	5.90	21.81%	[0.00]	mg/L
V 290.880†	3212.5	3.46	0.11%	[0.00]	mg/L
Zn 206.200†	388.8	2.78	0.72%	[0.00]	mg/L

22208
66498

all elements reported except Na, K

QC, 02671.003, ω1, ω2, ω4, ω5
02771.ω1, ω2
02799.ω2
02668.ω1-ω7
} not reported

Sequence No.: 2
Sample ID: CALST1 V-270575
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 2/28/2018 1:38:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST1 V-270575

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1389702.0	2069.17	0.15%	100	%
Y 371.029	435366.8	4116.52	0.95%	98.5	%
Be 313.107†	10789.5	97.79	0.91%	[0.003]	mg/L
Cd 228.802†	200.8	2.51	1.25%	[0.003]	mg/L

Sequence No.: 3
Sample ID: CALST2 V-273214
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 2/28/2018 1:41:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST2 V-273214

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1377096.7	102.19	0.01%	99.3	%
Y 371.029	430428.1	5458.52	1.27%	97.3	%
Ag 328.068†	565.8	9.56	1.69%	[0.002]	mg/L
Al 308.215†	3875.9	123.95	3.20%	[0.10]	mg/L
As 188.979†	13.0	2.49	19.24%	[0.010]	mg/L
Ba 233.527†	1391.0	2.24	0.16%	[0.010]	mg/L
Be 313.107†	37449.2	150.99	0.40%	[0.010]	mg/L
Ca 315.887†	141210.8	830.45	0.59%	[1.0]	mg/L
Cd 228.802†	650.7	6.55	1.01%	[0.010]	mg/L
Co 228.616†	614.7	5.61	0.91%	[0.010]	mg/L
Cr 267.716†	1341.6	6.96	0.52%	[0.010]	mg/L
Cu 327.393†	1413.1	2.58	0.18%	[0.010]	mg/L
Fe 273.955†	3468.6	21.79	0.63%	[0.10]	mg/L
K 404.721†	71.3	43.98	61.65%	[1.0]	mg/L
Mg 279.077†	22404.3	30.27	0.14%	[1.0]	mg/L
Mn 257.610†	11586.2	114.22	0.99%	[0.010]	mg/L
Mo 202.031†	166.1	0.01	0.01%	[0.010]	mg/L
Na 330.237†	1066.5	42.40	3.98%	[1.0]	mg/L
Ni 231.604†	490.1	4.80	0.98%	[0.010]	mg/L
Pb 220.353†	110.5	2.89	2.61%	[0.010]	mg/L
Sb 206.836†	40.8	1.80	4.42%	[0.010]	mg/L
Se 196.026†	12.9	1.41	10.95%	[0.010]	mg/L
Sn 189.927†	46.8	1.47	3.15%	[0.010]	mg/L
Ti 334.940†	10516.7	124.51	1.18%	[0.010]	mg/L
Tl 190.801†	16.1	0.56	3.49%	[0.010]	mg/L
V 290.880†	2162.2	36.22	1.67%	[0.010]	mg/L
Zn 206.200†	659.7	1.68	0.25%	[0.010]	mg/L

Sequence No.: 4
Sample ID: CALST3 V-273216
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 2/28/2018 1:44:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST3 V-273216

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1328976.4	273.67	0.02%	95.9	%
Y 371.029	406070.6	8301.57	2.04%	91.8	%
Ag 328.068†	26684.4	84.42	0.32%	[0.10]	mg/L
Al 308.215†	189885.7	494.73	0.26%	[5.0]	mg/L
As 188.979†	852.4	4.50	0.53%	[0.50]	mg/L
Ba 233.527†	67340.5	55.66	0.08%	[0.50]	mg/L
Be 313.107†	1895650.0	8158.99	0.43%	[0.50]	mg/L
Ca 315.887†	6881135.7	60416.13	0.88%	[50]	mg/L
Cd 228.802†	32483.5	97.10	0.30%	[0.50]	mg/L
Co 228.616†	29572.8	68.02	0.23%	[0.50]	mg/L
Cr 267.716†	67478.9	224.01	0.33%	[0.50]	mg/L
Cu 327.393†	71511.9	2888.03	4.04%	[0.50]	mg/L
Fe 273.955†	168480.4	395.62	0.23%	[5.0]	mg/L
K 404.721†	5201.3	104.91	2.02%	[50]	mg/L
Mg 279.077†	1049746.8	3597.83	0.34%	[50]	mg/L
Mn 257.610†	549890.0	2436.11	0.44%	[0.50]	mg/L
Mo 202.031†	8232.7	39.06	0.47%	[0.50]	mg/L
Na 330.237†	64781.4	236.05	0.36%	[50]	mg/L
Ni 231.604†	23847.1	65.08	0.27%	[0.50]	mg/L
Pb 220.353†	5260.3	41.55	0.79%	[0.50]	mg/L
Sb 206.836†	2020.1	10.96	0.54%	[0.50]	mg/L
Se 196.026†	745.1	5.98	0.80%	[0.50]	mg/L
Sn 189.927†	2256.7	18.07	0.80%	[0.50]	mg/L
Ti 334.940†	528951.9	1398.55	0.26%	[0.50]	mg/L
Tl 190.801†	819.0	1.47	0.18%	[0.50]	mg/L
V 290.880†	104326.6	169.35	0.16%	[0.50]	mg/L
Zn 206.200†	34185.9	36.73	0.11%	[0.50]	mg/L

Sequence No.: 5
Sample ID: CALST4 V-272853
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/28/2018 1:49:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST4 V-272853

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1278002.8	3487.06	0.27%	92.2	%
Y 371.029	396429.0	4821.60	1.22%	89.6	%
Ag 328.068†	53977.2	232.04	0.43%	[0.20]	mg/L
Al 308.215†	385191.1	2297.28	0.60%	[10]	mg/L
As 188.979†	1731.5	0.22	0.01%	[1.0]	mg/L
Ba 233.527†	133991.6	931.19	0.69%	[1.0]	mg/L
Be 313.107†	3831678.3	33794.83	0.88%	[1.0]	mg/L
Ca 315.887†	13694253.5	112363.42	0.82%	[100]	mg/L
Cd 228.802†	65575.7	360.54	0.55%	[1.0]	mg/L
Co 228.616†	58415.5	211.86	0.36%	[1.0]	mg/L
Cr 267.716†	134692.5	626.69	0.47%	[1.0]	mg/L
Cu 327.393†	145427.5	2522.06	1.73%	[1.0]	mg/L
Fe 273.955†	335669.0	1894.01	0.56%	[10]	mg/L
K 404.721†	11282.6	63.02	0.56%	[100]	mg/L
Mg 279.077†	2087472.5	8041.38	0.39%	[100]	mg/L
Mn 257.610†	1096481.5	4707.11	0.43%	[1.0]	mg/L
Mo 202.031†	16531.0	33.89	0.21%	[1.0]	mg/L
Na 330.237†	141247.8	448.51	0.32%	[100]	mg/L
Ni 231.604†	47078.8	203.89	0.43%	[1.0]	mg/L
Pb 220.353†	10511.9	32.33	0.31%	[1.0]	mg/L
Sb 206.836†	4082.8	13.69	0.34%	[1.0]	mg/L
Se 196.026†	1522.6	10.15	0.67%	[1.0]	mg/L
Sn 189.927†	4562.3	20.36	0.45%	[1.0]	mg/L
Ti 334.940†	1070254.5	9416.33	0.88%	[1.0]	mg/L
Tl 190.801†	1624.7	6.67	0.41%	[1.0]	mg/L
V 290.880†	208605.6	761.00	0.36%	[1.0]	mg/L
Zn 206.200†	67632.9	335.65	0.50%	[1.0]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin, Calc Int	-43.5	269500	0.00000	0.999982	
Al 308.215	3	Lin, Calc Int	-482.3	38470	0.00000	0.999973	
As 188.979	3	Lin, Calc Int	-4.4	1731	0.00000	0.999971	
Ba 233.527	3	Lin, Calc Int	85.9	134000	0.00000	0.999997	
Be 313.107	4	Lin, Calc Int	-3008.0	3827000	0.00000	0.999987	
Ca 315.887	3	Lin, Calc Int	8127.5	137000	0.00000	0.999997	
Cd 228.802	4	Lin, Calc Int	-38.2	65500	0.00000	0.999990	
Co 228.616	3	Lin, Calc Int	80.3	58460	0.00000	0.999980	
Cr 267.716	3	Lin, Calc Int	21.7	134700	0.00000	0.999999	
Cu 327.393	3	Lin, Calc Int	-237.4	145200	0.00000	0.999964	
Fe 273.955	3	Lin, Calc Int	168.4	33570	0.00000	0.999998	
K 404.721	3	Lin, Calc Int	-98.9	112.3	0.00000	0.999212	
Mg 279.077	3	Lin, Calc Int	1788.4	20880	0.00000	0.999996	
Mn 257.610	3	Lin, Calc Int	582.3	1096000	0.00000	0.999999	
Mo 202.031	3	Lin, Calc Int	-5.6	16520	0.00000	0.999998	
Na 330.237	3	Lin, Calc Int	-1220.4	1404	0.00000	0.999099	
Ni 231.604	3	Lin, Calc Int	64.8	47120	0.00000	0.999978	
Pb 220.353	3	Lin, Calc Int	3.2	10510	0.00000	1.000000	
Sb 206.836	3	Lin, Calc Int	-3.9	4079	0.00000	0.999985	
Se 196.026	3	Lin, Calc Int	-4.0	1521	0.00000	0.999943	
Sn 189.927	3	Lin, Calc Int	-3.9	4557	0.00000	0.999984	
Ti 334.940	3	Lin, Calc Int	-1208.3	1069000	0.00000	0.999982	
Tl 190.801	3	Lin, Calc Int	1.2	1626	0.00000	0.999991	
V 290.880	3	Lin, Calc Int	38.9	208600	0.00000	1.000000	
Zn 206.200	3	Lin, Calc Int	59.7	67710	0.00000	0.999984	

Sequence No.: 6
Sample ID: ICS3 V-273216
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 2/28/2018 1:55:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICS3 V-273216

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1323407.4	95.5	%	0.34				0.36%
Y 371.029	407541.6	92.2	%	2.94				3.19%
Ag 328.068†	26728.3	0.0995587	mg/L	0.00106038	0.0995587	mg/L	0.00106038	1.07%
QC value within limits for Ag 328.068 Recovery = 99.56%								
Al 308.215†	190468.8	4.96376	mg/L	0.064526	4.96376	mg/L	0.064526	1.30%
QC value within limits for Al 308.215 Recovery = 99.28%								
As 188.979†	852.4	0.496589	mg/L	0.0027482	0.496589	mg/L	0.0027482	0.55%
QC value within limits for As 188.979 Recovery = 99.32%								
Ba 233.527†	67597.8	0.502966	mg/L	0.0050643	0.502966	mg/L	0.0050643	1.01%
QC value within limits for Ba 233.527 Recovery = 100.59%								
Be 313.107†	1903463.0	0.497819	mg/L	0.0041158	0.497819	mg/L	0.0041158	0.83%
QC value within limits for Be 313.107 Recovery = 99.56%								
Ca 315.887†	6865061.6	50.0577	mg/L	0.34382	50.0577	mg/L	0.34382	0.69%
QC value within limits for Ca 315.887 Recovery = 100.12%								
Cd 228.802†	32519.9	0.497094	mg/L	0.0058000	0.497094	mg/L	0.0058000	1.17%
QC value within limits for Cd 228.802 Recovery = 99.42%								
Co 228.616†	29591.4	0.503689	mg/L	0.0068908	0.503689	mg/L	0.0068908	1.37%
QC value within limits for Co 228.616 Recovery = 100.74%								
Cr 267.716†	67628.5	0.500769	mg/L	0.0058220	0.500769	mg/L	0.0058220	1.16%
QC value within limits for Cr 267.716 Recovery = 100.15%								
Cu 327.393†	71023.2	0.494346	mg/L	0.0062654	0.494346	mg/L	0.0062654	1.27%
QC value within limits for Cu 327.393 Recovery = 98.87%								
Fe 273.955†	168748.9	5.02139	mg/L	0.064298	5.02139	mg/L	0.064298	1.28%
QC value within limits for Fe 273.955 Recovery = 100.43%								
K 404.721†	5219.1	47.3737	mg/L	1.03831	47.3737	mg/L	1.03831	2.19%
QC value within limits for K 404.721 Recovery = 94.75%								
Mg 279.077†	1049959.0	50.2063	mg/L	0.37478	50.2063	mg/L	0.37478	0.75%
QC value within limits for Mg 279.077 Recovery = 100.41%								
Mn 257.610†	548088.7	0.497663	mg/L	0.0034988	0.497663	mg/L	0.0034988	0.70%
QC value within limits for Mn 257.610 Recovery = 99.53%								
Mo 202.031†	8228.8	0.498424	mg/L	0.0003246	0.498424	mg/L	0.0003246	0.07%
QC value within limits for Mo 202.031 Recovery = 99.68%								
Na 330.237†	65017.1	47.1836	mg/L	0.37378	47.1836	mg/L	0.37378	0.79%
QC value within limits for Na 330.237 Recovery = 94.37%								
Ni 231.604†	23870.2	0.505244	mg/L	0.0043942	0.505244	mg/L	0.0043942	0.87%
QC value within limits for Ni 231.604 Recovery = 101.05%								
Pb 220.353†	5245.9	0.500426	mg/L	0.0010530	0.500426	mg/L	0.0010530	0.21%
QC value within limits for Pb 220.353 Recovery = 100.09%								
Sb 206.836†	2015.8	0.495645	mg/L	0.0012911	0.495645	mg/L	0.0012911	0.26%
QC value within limits for Sb 206.836 Recovery = 99.13%								
Se 196.026†	752.4	0.498241	mg/L	0.0038148	0.498241	mg/L	0.0038148	0.77%
QC value within limits for Se 196.026 Recovery = 99.65%								
Sn 189.927†	2281.1	0.503844	mg/L	0.0007928	0.503844	mg/L	0.0007928	0.16%
QC value within limits for Sn 189.927 Recovery = 100.77%								
Ti 334.940†	530771.6	0.495692	mg/L	0.0002238	0.495692	mg/L	0.0002238	0.05%
QC value within limits for Ti 334.940 Recovery = 99.14%								
Tl 190.801†	811.4	0.500843	mg/L	0.0005877	0.500843	mg/L	0.0005877	0.12%
QC value within limits for Tl 190.801 Recovery = 100.17%								
V 290.880†	104449.5	0.500241	mg/L	0.0067521	0.500241	mg/L	0.0067521	1.35%
QC value within limits for V 290.880 Recovery = 100.05%								
Zn 206.200†	34185.7	0.503962	mg/L	0.0066239	0.503962	mg/L	0.0066239	1.31%
QC value within limits for Zn 206.200 Recovery = 100.79%								

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: ICV V-273563
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/28/2018 1:59:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV V-273563

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1309700.2	94.5	%	0.63				0.66%
Y 371.029	408341.4	92.3	%	1.12				1.21%
Ag 328.068†	26413.0	0.0983893	mg/L	0.00196486	0.0983893	mg/L	0.00196486	2.00%
QC value within limits for Ag 328.068 Recovery = 98.39%								
Al 308.215†	189874.8	4.94833	mg/L	0.075557	4.94833	mg/L	0.075557	1.53%
QC value within limits for Al 308.215 Recovery = 98.97%								
As 188.979†	855.9	0.498599	mg/L	0.0072304	0.498599	mg/L	0.0072304	1.45%
QC value within limits for As 188.979 Recovery = 99.72%								
Ba 233.527†	66961.1	0.498206	mg/L	0.0064627	0.498206	mg/L	0.0064627	1.30%
QC value within limits for Ba 233.527 Recovery = 99.64%								
Be 313.107†	1879239.2	0.491485	mg/L	0.0026421	0.491485	mg/L	0.0026421	0.54%
QC value within limits for Be 313.107 Recovery = 98.30%								
Ca 315.887†	6952618.2	50.6968	mg/L	0.20657	50.6968	mg/L	0.20657	0.41%
QC value within limits for Ca 315.887 Recovery = 101.39%								
Cd 228.802†	32202.1	0.492242	mg/L	0.0090262	0.492242	mg/L	0.0090262	1.83%
QC value within limits for Cd 228.802 Recovery = 98.45%								
Co 228.616†	29414.1	0.500641	mg/L	0.0095798	0.500641	mg/L	0.0095798	1.91%
QC value within limits for Co 228.616 Recovery = 100.13%								
Cr 267.716†	68424.8	0.506665	mg/L	0.0109155	0.506665	mg/L	0.0109155	2.15%
QC value within limits for Cr 267.716 Recovery = 101.33%								
Cu 327.393†	73444.3	0.511065	mg/L	0.0036152	0.511065	mg/L	0.0036152	0.71%
QC value within limits for Cu 327.393 Recovery = 102.21%								
Fe 273.955†	169244.9	5.03616	mg/L	0.089985	5.03616	mg/L	0.089985	1.79%
QC value within limits for Fe 273.955 Recovery = 100.72%								
K 404.721†	5215.4	47.3402	mg/L	0.02145	47.3402	mg/L	0.02145	0.05%
QC value within limits for K 404.721 Recovery = 94.68%								
Mg 279.077†	1064419.9	50.8989	mg/L	0.21195	50.8989	mg/L	0.21195	0.42%
QC value within limits for Mg 279.077 Recovery = 101.80%								
Mn 257.610†	549354.2	0.498794	mg/L	0.0019480	0.498794	mg/L	0.0019480	0.39%
QC value within limits for Mn 257.610 Recovery = 99.76%								
Mo 202.031†	8312.0	0.503454	mg/L	0.0041808	0.503454	mg/L	0.0041808	0.83%
QC value within limits for Mo 202.031 Recovery = 100.69%								
Na 330.237†	65300.5	47.3855	mg/L	0.65801	47.3855	mg/L	0.65801	1.39%
QC value within limits for Na 330.237 Recovery = 94.77%								
Ni 231.604†	23755.2	0.502805	mg/L	0.0135491	0.502805	mg/L	0.0135491	2.69%
QC value within limits for Ni 231.604 Recovery = 100.56%								
Pb 220.353†	5266.5	0.502395	mg/L	0.0033620	0.502395	mg/L	0.0033620	0.67%
QC value within limits for Pb 220.353 Recovery = 100.48%								
Sb 206.836†	2035.6	0.500498	mg/L	0.0038779	0.500498	mg/L	0.0038779	0.77%
QC value within limits for Sb 206.836 Recovery = 100.10%								
Se 196.026†	749.3	0.496162	mg/L	0.0055745	0.496162	mg/L	0.0055745	1.12%
QC value within limits for Se 196.026 Recovery = 99.23%								
Sn 189.927†	2314.1	0.511133	mg/L	0.0040198	0.511133	mg/L	0.0040198	0.79%
QC value within limits for Sn 189.927 Recovery = 102.23%								
Ti 334.940†	540011.0	0.504309	mg/L	0.0023129	0.504309	mg/L	0.0023129	0.46%
QC value within limits for Ti 334.940 Recovery = 100.86%								
Tl 190.801†	810.0	0.500023	mg/L	0.0068570	0.500023	mg/L	0.0068570	1.37%
QC value within limits for Tl 190.801 Recovery = 100.00%								
V 290.880†	103962.8	0.497904	mg/L	0.0093334	0.497904	mg/L	0.0093334	1.87%
QC value within limits for V 290.880 Recovery = 99.58%								
Zn 206.200†	34264.4	0.505126	mg/L	0.0090421	0.505126	mg/L	0.0090421	1.79%
QC value within limits for Zn 206.200 Recovery = 101.03%								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: LLICV [aq] V-274418
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/28/2018 2:04:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLICV [aq] V-274418

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sc 361.383	1385929.4	100.0	%	0.04				0.04%
Y 371.029	426548.5	96.5	%	0.41				0.43%
Ag 328.068†	5298.8	0.0198340	mg/L	0.00020249	0.0198340	mg/L	0.00020249	1.02%
QC value within limits for Ag 328.068 Recovery = 99.17%								
Al 308.215†	7933.8	0.218775	mg/L	0.0021905	0.218775	mg/L	0.0021905	1.00%
QC value within limits for Al 308.215 Recovery = 109.39%								
As 188.979†	27.5	0.0185661	mg/L	0.00139131	0.0185661	mg/L	0.00139131	7.49%
QC value within limits for As 188.979 Recovery = 92.83%								
Ba 233.527†	6769.5	0.0497915	mg/L	0.00005155	0.0497915	mg/L	0.00005155	0.10%
QC value within limits for Ba 233.527 Recovery = 99.58%								
Be 313.107†	44208.0	0.0123050	mg/L	0.00001374	0.0123050	mg/L	0.00001374	0.11%
QC value within limits for Be 313.107 Recovery = 102.54%								
Ca 315.887†	700522.9	5.05469	mg/L	0.026861	5.05469	mg/L	0.026861	0.53%
QC value within limits for Ca 315.887 Recovery = 101.09%								
Cd 228.802†	781.1	0.0125093	mg/L	0.00001565	0.0125093	mg/L	0.00001565	0.13%
QC value within limits for Cd 228.802 Recovery = 104.24%								
Co 228.616†	1207.9	0.0191852	mg/L	0.00004096	0.0191852	mg/L	0.00004096	0.21%
QC value within limits for Co 228.616 Recovery = 95.93%								
Cr 267.716†	6861.1	0.0506605	mg/L	0.00008616	0.0506605	mg/L	0.00008616	0.17%
QC value within limits for Cr 267.716 Recovery = 101.32%								
Cu 327.393†	7159.5	0.0512756	mg/L	0.00064488	0.0512756	mg/L	0.00064488	1.26%
QC value within limits for Cu 327.393 Recovery = 102.55%								
Fe 273.955†	10233.3	0.299797	mg/L	0.0002295	0.299797	mg/L	0.0002295	0.08%
QC value within limits for Fe 273.955 Recovery = 99.93%								
K 404.721†	384.0	4.30194	mg/L	0.707853	4.30194	mg/L	0.707853	16.45%
QC value within limits for K 404.721 Recovery = 86.04%								
Mg 279.077†	107385.0	5.05797	mg/L	0.016019	5.05797	mg/L	0.016019	0.32%
QC value within limits for Mg 279.077 Recovery = 101.16%								
Mn 257.610†	44967.8	0.0403117	mg/L	0.00012254	0.0403117	mg/L	0.00012254	0.30%
QC value within limits for Mn 257.610 Recovery = 100.78%								
Mo 202.031†	342.4	0.0210674	mg/L	0.00017452	0.0210674	mg/L	0.00017452	0.83%
QC value within limits for Mo 202.031 Recovery = 105.34%								
Na 330.237†	5592.7	4.85324	mg/L	0.003942	4.85324	mg/L	0.003942	0.08%
QC value within limits for Na 330.237 Recovery = 97.06%								
Ni 231.604†	2414.0	0.0498582	mg/L	0.00024875	0.0498582	mg/L	0.00024875	0.50%
QC value within limits for Ni 231.604 Recovery = 99.72%								
Pb 220.353†	129.0	0.0120453	mg/L	0.00074409	0.0120453	mg/L	0.00074409	6.18%
QC value within limits for Pb 220.353 Recovery = 100.38%								
Sb 206.836†	79.8	0.0206048	mg/L	0.00173462	0.0206048	mg/L	0.00173462	8.42%
QC value within limits for Sb 206.836 Recovery = 103.02%								
Se 196.026†	57.2	0.0402242	mg/L	0.00352541	0.0402242	mg/L	0.00352541	8.76%
QC value within limits for Se 196.026 Recovery = 100.56%								
Sn 189.927†	241.6	0.0541246	mg/L	0.00042253	0.0541246	mg/L	0.00042253	0.78%
QC value within limits for Sn 189.927 Recovery = 108.25%								
Ti 334.940†	52773.5	0.0503166	mg/L	0.00025448	0.0503166	mg/L	0.00025448	0.51%
QC value within limits for Ti 334.940 Recovery = 100.63%								
Tl 190.801†	33.4	0.0201240	mg/L	0.00026104	0.0201240	mg/L	0.00026104	1.30%
QC value within limits for Tl 190.801 Recovery = 100.62%								
V 290.880†	10594.5	0.0505601	mg/L	0.00011428	0.0505601	mg/L	0.00011428	0.23%
QC value within limits for V 290.880 Recovery = 101.12%								
Zn 206.200†	3354.1	0.0486540	mg/L	0.00014816	0.0486540	mg/L	0.00014816	0.30%
QC value within limits for Zn 206.200 Recovery = 97.31%								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICB V-273721
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/28/2018 2:08:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB V-273721

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	1385334.2	99.9	%	0.64				0.64%
Y 371.029	436063.4	98.6	%	0.43				0.43%
Ag 328.068†	-60.6	-0.0000636	mg/L	0.00001569	-0.0000636	mg/L	0.00001569	24.68%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	69.7	0.0143484	mg/L	0.00159940	0.0143484	mg/L	0.00159940	11.15%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-3.3	0.0006551	mg/L	0.00035040	0.0006551	mg/L	0.00035040	53.49%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	2.0	-0.0006254	mg/L	0.00000699	-0.0006254	mg/L	0.00000699	1.12%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	49.1	0.0007980	mg/L	0.00000299	0.0007980	mg/L	0.00000299	0.37%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	174.5	-0.0580589	mg/L	0.00045902	-0.0580589	mg/L	0.00045902	0.79%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 228.802†	9.1	0.0007225	mg/L	0.00001353	0.0007225	mg/L	0.00001353	1.87%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	2.8	-0.0013283	mg/L	0.00006999	-0.0013283	mg/L	0.00006999	5.27%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-15.9	-0.0002770	mg/L	0.00003059	-0.0002770	mg/L	0.00003059	11.04%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	15.6	0.0017452	mg/L	0.00000110	0.0017452	mg/L	0.00000110	0.06%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955†	-53.7	-0.0066130	mg/L	0.00043389	-0.0066130	mg/L	0.00043389	6.56%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 404.721†	53.0	1.35345	mg/L	0.295259	1.35345	mg/L	0.295259	21.82%
QC value within limits for K 404.721 Recovery = Not calculated								
Mg 279.077†	-55.9	-0.0883371	mg/L	0.00084656	-0.0883371	mg/L	0.00084656	0.96%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	45.4	-0.0004867	mg/L	0.00001018	-0.0004867	mg/L	0.00001018	2.09%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-1.1	0.0002741	mg/L	0.00014340	0.0002741	mg/L	0.00014340	52.31%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 330.237†	-45.6	0.836857	mg/L	0.0086010	0.836857	mg/L	0.0086010	1.03%
QC value within limits for Na 330.237 Recovery = Not calculated								
Ni 231.604†	4.4	-0.0012814	mg/L	0.00008061	-0.0012814	mg/L	0.00008061	6.29%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-13.1	-0.0015510	mg/L	0.00119237	-0.0015510	mg/L	0.00119237	76.88%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-2.0	0.0004632	mg/L	0.00063528	0.0004632	mg/L	0.00063528	137.16%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	1.0	0.0032516	mg/L	0.00015523	0.0032516	mg/L	0.00015523	4.77%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	11.8	0.0034502	mg/L	0.00012204	0.0034502	mg/L	0.00012204	3.54%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	101.6	0.0012276	mg/L	0.00002999	0.0012276	mg/L	0.00002999	2.44%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	2.5	0.0008472	mg/L	0.00134692	0.0008472	mg/L	0.00134692	158.98%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	-17.3	-0.0002679	mg/L	0.00000324	-0.0002679	mg/L	0.00000324	1.21%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	-10.1	-0.0010311	mg/L	0.00003531	-0.0010311	mg/L	0.00003531	3.42%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: ICSA V-273217
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/28/2018 2:11:53 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-273217

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sc 361.383	1164104.5	84.0	%	0.13				0.16%
Y 371.029	351961.8	79.6	%	1.15				1.44%
Ag 328.068†	-2228.4	0.0005250	mg/L	0.00008622	0.0005250	mg/L	0.00008622	16.42%
Al 308.215†	19076456.1	495.904	mg/L	0.0459	495.904	mg/L	0.0459	0.01%
QC value within limits for Al 308.215 Recovery = 99.18%								
As 188.979†	-88.9	0.0410728	mg/L	0.00182172	0.0410728	mg/L	0.00182172	4.44%
Ba 233.527†	961.3	-0.0005815	mg/L	0.00002849	-0.0005815	mg/L	0.00002849	4.90%
Be 313.107†	-3904.5	-0.0002475	mg/L	0.00001671	-0.0002475	mg/L	0.00001671	6.75%
Ca 315.887†	64510361.3	470.885	mg/L	0.3339	470.885	mg/L	0.3339	0.07%
QC value within limits for Ca 315.887 Recovery = 94.18%								
Cd 228.802†	-216.1	-0.0017864	mg/L	0.00006560	-0.0017864	mg/L	0.00006560	3.67%
Co 228.616†	272.9	-0.0064457	mg/L	0.00000926	-0.0064457	mg/L	0.00000926	0.14%
Cr 267.716†	875.2	-0.0039868	mg/L	0.00035170	-0.0039868	mg/L	0.00035170	8.82%
Cu 327.393†	-5702.1	-0.0027920	mg/L	0.00052710	-0.0027920	mg/L	0.00052710	18.88%
Fe 273.955†	6192314.7	184.441	mg/L	0.3810	184.441	mg/L	0.3810	0.21%
QC value within limits for Fe 273.955 Recovery = 92.22%								
K 404.721†	-607.0	-4.52614	mg/L	1.055456	-4.52614	mg/L	1.055456	23.32%
Mg 279.077†	10150731.5	486.124	mg/L	0.2723	486.124	mg/L	0.2723	0.06%
QC value within limits for Mg 279.077 Recovery = 97.22%								
Mn 257.610†	25182.2	0.0061212	mg/L	0.00016607	0.0061212	mg/L	0.00016607	2.71%
Mo 202.031†	-291.7	-0.0062434	mg/L	0.00022731	-0.0062434	mg/L	0.00022731	3.64%
Na 330.237†	77.1	0.924286	mg/L	0.0271331	0.924286	mg/L	0.0271331	2.94%
Ni 231.604†	116.0	0.0038968	mg/L	0.00029263	0.0038968	mg/L	0.00029263	7.51%
Pb 220.353†	-1259.6	0.0017256	mg/L	0.00081402	0.0017256	mg/L	0.00081402	47.17%
Sb 206.836†	-44.9	0.0072895	mg/L	0.00111174	0.0072895	mg/L	0.00111174	15.25%
Se 196.026†	-196.3	-0.0156666	mg/L	0.00891910	-0.0156666	mg/L	0.00891910	56.93%
Sn 189.927†	-109.2	-0.0080090	mg/L	0.00005178	-0.0080090	mg/L	0.00005178	0.65%
Ti 334.940†	21306.4	0.0059473	mg/L	0.00014577	0.0059473	mg/L	0.00014577	2.45%
Tl 190.801†	111.4	-0.0621168	mg/L	0.00464502	-0.0621168	mg/L	0.00464502	7.48%
V 290.880†	2429.4	-0.0034984	mg/L	0.00056501	-0.0034984	mg/L	0.00056501	16.15%
Zn 206.200†	1386.0	0.0145126	mg/L	0.00029327	0.0145126	mg/L	0.00029327	2.02%

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: ICSAB V-273219
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/28/2018 2:17:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-273219

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1168305.0	84.3	%	0.30				0.35%
Y 371.029	357405.6	80.8	%	1.63				2.01%
Ag 328.068†	297996.6	1.11444	mg/L	0.003634	1.11444	mg/L	0.003634	0.33%
QC value within limits for Ag 328.068 Recovery = 111.44%								
Al 308.215†	19254814.2	500.541	mg/L	3.5834	500.541	mg/L	3.5834	0.72%
QC value within limits for Al 308.215 Recovery = 100.11%								
As 188.979†	1681.2	1.06432	mg/L	0.000685	1.06432	mg/L	0.000685	0.06%
QC value within limits for As 188.979 Recovery = 106.43%								
Ba 233.527†	70691.3	0.519627	mg/L	0.0046518	0.519627	mg/L	0.0046518	0.90%
QC value within limits for Ba 233.527 Recovery = 103.93%								
Be 313.107†	1922194.6	0.503013	mg/L	0.0005891	0.503013	mg/L	0.0005891	0.12%
QC value within limits for Be 313.107 Recovery = 100.60%								
Ca 315.887†	65084146.3	475.074	mg/L	3.2324	475.074	mg/L	3.2324	0.68%
QC value within limits for Ca 315.887 Recovery = 95.01%								
Cd 228.802†	68518.1	1.04760	mg/L	0.002376	1.04760	mg/L	0.002376	0.23%
QC value within limits for Cd 228.802 Recovery = 104.76%								
Co 228.616†	27881.2	0.465685	mg/L	0.0012937	0.465685	mg/L	0.0012937	0.28%
QC value within limits for Co 228.616 Recovery = 93.14%								
Cr 267.716†	68498.4	0.497843	mg/L	0.0012230	0.497843	mg/L	0.0012230	0.25%
QC value within limits for Cr 267.716 Recovery = 99.57%								
Cu 327.393†	73218.6	0.540939	mg/L	0.0150206	0.540939	mg/L	0.0150206	2.78%
QC value within limits for Cu 327.393 Recovery = 108.19%								
Fe 273.955†	6250775.3	186.182	mg/L	0.3705	186.182	mg/L	0.3705	0.20%
QC value within limits for Fe 273.955 Recovery = 93.09%								
K 404.721†	-549.5	-4.01366	mg/L	0.250763	-4.01366	mg/L	0.250763	6.25%
Mg 279.077†	10274796.7	492.066	mg/L	3.2300	492.066	mg/L	3.2300	0.66%
QC value within limits for Mg 279.077 Recovery = 98.41%								
Mn 257.610†	576771.3	0.508993	mg/L	0.0013548	0.508993	mg/L	0.0013548	0.27%
QC value within limits for Mn 257.610 Recovery = 101.80%								
Mo 202.031†	-304.4	-0.0069097	mg/L	0.00021660	-0.0069097	mg/L	0.00021660	3.13%
Na 330.237†	526.9	1.24471	mg/L	0.048759	1.24471	mg/L	0.048759	3.92%
Ni 231.604†	44150.5	0.938367	mg/L	0.0040119	0.938367	mg/L	0.0040119	0.43%
QC value within limits for Ni 231.604 Recovery = 93.84%								
Pb 220.353†	8968.4	0.976053	mg/L	0.0009059	0.976053	mg/L	0.0009059	0.09%
QC value within limits for Pb 220.353 Recovery = 97.61%								
Sb 206.836†	4228.6	1.05514	mg/L	0.002729	1.05514	mg/L	0.002729	0.26%
QC value within limits for Sb 206.836 Recovery = 105.51%								
Se 196.026†	1362.1	1.00962	mg/L	0.006123	1.00962	mg/L	0.006123	0.61%
QC value within limits for Se 196.026 Recovery = 100.96%								
Sn 189.927†	-118.1	-0.0098233	mg/L	0.00279864	-0.0098233	mg/L	0.00279864	28.49%
Ti 334.940†	21693.4	0.0061322	mg/L	0.00001776	0.0061322	mg/L	0.00001776	0.29%
Tl 190.801†	1661.9	0.892445	mg/L	0.0054253	0.892445	mg/L	0.0054253	0.61%
QC value within limits for Tl 190.801 Recovery = 89.24%								
V 290.880†	106474.3	0.495198	mg/L	0.0008427	0.495198	mg/L	0.0008427	0.17%
QC value within limits for V 290.880 Recovery = 99.04%								
Zn 206.200†	66875.6	0.981694	mg/L	0.0029539	0.981694	mg/L	0.0029539	0.30%
QC value within limits for Zn 206.200 Recovery = 98.17%								

All analyte(s) passed QC.

Sequence No.: 12
Sample ID: CCV V-273563
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/28/2018 2:23:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-273563

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1308248.6	94.4	%	0.18				0.20%
Y 371.029	401022.8	90.7	%	1.23				1.36%
Ag 328.068†	26233.7	0.0977232	mg/L	0.00132590	0.0977232	mg/L	0.00132590	1.36%
QC value within limits for Ag 328.068 Recovery = 97.72%								
Al 308.215†	189645.6	4.94237	mg/L	0.061035	4.94237	mg/L	0.061035	1.23%
QC value within limits for Al 308.215 Recovery = 98.85%								
As 188.979†	851.5	0.496045	mg/L	0.0001547	0.496045	mg/L	0.0001547	0.03%
QC value within limits for As 188.979 Recovery = 99.21%								
Ba 233.527†	66411.6	0.494107	mg/L	0.0093662	0.494107	mg/L	0.0093662	1.90%
QC value within limits for Ba 233.527 Recovery = 98.82%								
Be 313.107†	1874882.6	0.490349	mg/L	0.0025405	0.490349	mg/L	0.0025405	0.52%
QC value within limits for Be 313.107 Recovery = 98.07%								
Ca 315.887†	6941537.0	50.6159	mg/L	0.19652	50.6159	mg/L	0.19652	0.39%
QC value within limits for Ca 315.887 Recovery = 101.23%								
Cd 228.802†	32011.8	0.489337	mg/L	0.0073891	0.489337	mg/L	0.0073891	1.51%
QC value within limits for Cd 228.802 Recovery = 97.87%								
Co 228.616†	29262.7	0.498059	mg/L	0.0085167	0.498059	mg/L	0.0085167	1.71%
QC value within limits for Co 228.616 Recovery = 99.61%								
Cr 267.716†	67908.6	0.502835	mg/L	0.0084211	0.502835	mg/L	0.0084211	1.67%
QC value within limits for Cr 267.716 Recovery = 100.57%								
Cu 327.393†	72284.2	0.503057	mg/L	0.0005293	0.503057	mg/L	0.0005293	0.11%
QC value within limits for Cu 327.393 Recovery = 100.61%								
Fe 273.955†	168461.6	5.01283	mg/L	0.079795	5.01283	mg/L	0.079795	1.59%
QC value within limits for Fe 273.955 Recovery = 100.26%								
K 404.721†	5183.2	47.0539	mg/L	0.57038	47.0539	mg/L	0.57038	1.21%
QC value within limits for K 404.721 Recovery = 94.11%								
Mg 279.077†	1062553.1	50.8095	mg/L	0.19574	50.8095	mg/L	0.19574	0.39%
QC value within limits for Mg 279.077 Recovery = 101.62%								
Mn 257.610†	548146.4	0.497695	mg/L	0.0022278	0.497695	mg/L	0.0022278	0.45%
QC value within limits for Mn 257.610 Recovery = 99.54%								
Mo 202.031†	8332.7	0.504707	mg/L	0.0025207	0.504707	mg/L	0.0025207	0.50%
QC value within limits for Mo 202.031 Recovery = 100.94%								
Na 330.237†	65056.9	47.2120	mg/L	0.52461	47.2120	mg/L	0.52461	1.11%
QC value within limits for Na 330.237 Recovery = 94.42%								
Ni 231.604†	23519.3	0.497799	mg/L	0.0089556	0.497799	mg/L	0.0089556	1.80%
QC value within limits for Ni 231.604 Recovery = 99.56%								
Pb 220.353†	5266.2	0.502366	mg/L	0.0006400	0.502366	mg/L	0.0006400	0.13%
QC value within limits for Pb 220.353 Recovery = 100.47%								
Sb 206.836†	2041.1	0.501853	mg/L	0.0028608	0.501853	mg/L	0.0028608	0.57%
QC value within limits for Sb 206.836 Recovery = 100.37%								
Se 196.026†	757.4	0.501504	mg/L	0.0008987	0.501504	mg/L	0.0008987	0.18%
QC value within limits for Se 196.026 Recovery = 100.30%								
Sn 189.927†	2276.7	0.502905	mg/L	0.0025875	0.502905	mg/L	0.0025875	0.51%
QC value within limits for Sn 189.927 Recovery = 100.58%								
Ti 334.940†	535840.8	0.500411	mg/L	0.0023177	0.500411	mg/L	0.0023177	0.46%
QC value within limits for Ti 334.940 Recovery = 100.08%								
Tl 190.801†	817.0	0.504325	mg/L	0.0056958	0.504325	mg/L	0.0056958	1.13%
QC value within limits for Tl 190.801 Recovery = 100.87%								
V 290.880†	103252.3	0.494501	mg/L	0.0065416	0.494501	mg/L	0.0065416	1.32%
QC value within limits for V 290.880 Recovery = 98.90%								
Zn 206.200†	33975.3	0.500857	mg/L	0.0076404	0.500857	mg/L	0.0076404	1.53%
QC value within limits for Zn 206.200 Recovery = 100.17%								

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: LLCCV [aq] V-274418
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/28/2018 2:28:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV [aq] V-274418

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	1390183.2	100	%	0.5				0.45%
Y 371.029	428596.0	96.9	%	1.09				1.13%
Ag 328.068†	5292.5	0.0198111	mg/L	0.00012784	0.0198111	mg/L	0.00012784	0.65%
QC value within limits for Ag 328.068 Recovery = 99.06%								
Al 308.215†	8101.3	0.223129	mg/L	0.0016060	0.223129	mg/L	0.0016060	0.72%
QC value within limits for Al 308.215 Recovery = 111.56%								
As 188.979†	29.9	0.0199519	mg/L	0.00035355	0.0199519	mg/L	0.00035355	1.77%
QC value within limits for As 188.979 Recovery = 99.76%								
Ba 233.527†	6881.8	0.0506294	mg/L	0.00016564	0.0506294	mg/L	0.00016564	0.33%
QC value within limits for Ba 233.527 Recovery = 101.26%								
Be 313.107†	44475.4	0.0123747	mg/L	0.00001529	0.0123747	mg/L	0.00001529	0.12%
QC value within limits for Be 313.107 Recovery = 103.12%								
Ca 315.887†	701419.9	5.06124	mg/L	0.030566	5.06124	mg/L	0.030566	0.60%
QC value within limits for Ca 315.887 Recovery = 101.22%								
Cd 228.802†	774.2	0.0124047	mg/L	0.00001464	0.0124047	mg/L	0.00001464	0.12%
QC value within limits for Cd 228.802 Recovery = 103.37%								
Co 228.616†	1205.3	0.0191404	mg/L	0.00012395	0.0191404	mg/L	0.00012395	0.65%
QC value within limits for Co 228.616 Recovery = 95.70%								
Cr 267.716†	6924.2	0.0511273	mg/L	0.00001902	0.0511273	mg/L	0.00001902	0.04%
QC value within limits for Cr 267.716 Recovery = 102.25%								
Cu 327.393†	7188.8	0.0514793	mg/L	0.00094829	0.0514793	mg/L	0.00094829	1.84%
QC value within limits for Cu 327.393 Recovery = 102.96%								
Fe 273.955†	10414.9	0.305207	mg/L	0.0005345	0.305207	mg/L	0.0005345	0.18%
QC value within limits for Fe 273.955 Recovery = 101.74%								
K 404.721†	467.8	5.04865	mg/L	0.179774	5.04865	mg/L	0.179774	3.56%
QC value within limits for K 404.721 Recovery = 100.97%								
Mg 279.077†	108488.6	5.11083	mg/L	0.012611	5.11083	mg/L	0.012611	0.25%
QC value within limits for Mg 279.077 Recovery = 102.22%								
Mn 257.610†	45294.1	0.0406075	mg/L	0.00012076	0.0406075	mg/L	0.00012076	0.30%
QC value within limits for Mn 257.610 Recovery = 101.52%								
Mo 202.031†	337.2	0.0207496	mg/L	0.00008798	0.0207496	mg/L	0.00008798	0.42%
QC value within limits for Mo 202.031 Recovery = 103.75%								
Na 330.237†	5650.0	4.89408	mg/L	0.046763	4.89408	mg/L	0.046763	0.96%
QC value within limits for Na 330.237 Recovery = 97.88%								
Ni 231.604†	2414.4	0.0498667	mg/L	0.00018303	0.0498667	mg/L	0.00018303	0.37%
QC value within limits for Ni 231.604 Recovery = 99.73%								
Pb 220.353†	121.2	0.0113111	mg/L	0.00059191	0.0113111	mg/L	0.00059191	5.23%
QC value within limits for Pb 220.353 Recovery = 94.26%								
Sb 206.836†	74.8	0.0193842	mg/L	0.00001062	0.0193842	mg/L	0.00001062	0.05%
QC value within limits for Sb 206.836 Recovery = 96.92%								
Se 196.026†	56.4	0.0396816	mg/L	0.00588282	0.0396816	mg/L	0.00588282	14.83%
QC value within limits for Se 196.026 Recovery = 99.20%								
Sn 189.927†	232.6	0.0521463	mg/L	0.00166137	0.0521463	mg/L	0.00166137	3.19%
QC value within limits for Sn 189.927 Recovery = 104.29%								
Ti 334.940†	53101.3	0.0506219	mg/L	0.00042108	0.0506219	mg/L	0.00042108	0.83%
QC value within limits for Ti 334.940 Recovery = 101.24%								
Tl 190.801†	35.7	0.0215541	mg/L	0.00061011	0.0215541	mg/L	0.00061011	2.83%
QC value within limits for Tl 190.801 Recovery = 107.77%								
V 290.880†	10721.4	0.0511673	mg/L	0.00004077	0.0511673	mg/L	0.00004077	0.08%
QC value within limits for V 290.880 Recovery = 102.33%								
Zn 206.200†	3344.0	0.0485043	mg/L	0.00012605	0.0485043	mg/L	0.00012605	0.26%
QC value within limits for Zn 206.200 Recovery = 97.01%								

All analyte(s) passed QC.

Sequence No.: 14 Autosampler Location: 2
Sample ID: CCB Date Collected: 2/28/2018 2:31:35 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1394982.4	101	%	0.2				0.18%
Y 371.029	430604.0	97.4	%	2.79				2.87%
Ag 328.068†	-65.3	-0.0000810	mg/L	0.00021223	-0.0000810	mg/L	0.00021223	262.05%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	76.8	0.0145333	mg/L	0.00006900	0.0145333	mg/L	0.00006900	0.47%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-2.9	0.0008882	mg/L	0.00107732	0.0008882	mg/L	0.00107732	121.30%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	4.7	-0.0006054	mg/L	0.00000769	-0.0006054	mg/L	0.00000769	1.27%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	45.4	0.0007971	mg/L	0.00001877	0.0007971	mg/L	0.00001877	2.36%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	1416.0	-0.0489960	mg/L	0.00023802	-0.0489960	mg/L	0.00023802	0.49%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 228.802†	1.3	0.0006024	mg/L	0.00013598	0.0006024	mg/L	0.00013598	22.57%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-4.3	-0.0014495	mg/L	0.00007035	-0.0014495	mg/L	0.00007035	4.85%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-2.5	-0.0001782	mg/L	0.00014469	-0.0001782	mg/L	0.00014469	81.18%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	22.0	0.0017896	mg/L	0.00009259	0.0017896	mg/L	0.00009259	5.17%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955†	88.0	-0.0023939	mg/L	0.00013962	-0.0023939	mg/L	0.00013962	5.83%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 404.721†	-19.2	0.709705	mg/L	1.0493822	0.709705	mg/L	1.0493822	147.86%
QC value within limits for K 404.721 Recovery = Not calculated								
Mg 279.077†	123.5	-0.0797454	mg/L	0.00127409	-0.0797454	mg/L	0.00127409	1.60%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	104.6	-0.0004330	mg/L	0.00001000	-0.0004330	mg/L	0.00001000	2.31%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	2.1	0.0004684	mg/L	0.00019925	0.0004684	mg/L	0.00019925	42.54%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 330.237†	34.3	0.893817	mg/L	0.0749529	0.893817	mg/L	0.0749529	8.39%
QC value within limits for Na 330.237 Recovery = Not calculated								
Ni 231.604†	21.1	-0.0009274	mg/L	0.00007757	-0.0009274	mg/L	0.00007757	8.36%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	0.2	-0.0002859	mg/L	0.00039577	-0.0002859	mg/L	0.00039577	138.41%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-2.7	0.0003010	mg/L	0.00193785	0.0003010	mg/L	0.00193785	643.73%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-5.1	-0.0007360	mg/L	0.00246679	-0.0007360	mg/L	0.00246679	335.16%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	3.5	0.0016261	mg/L	0.00067166	0.0016261	mg/L	0.00067166	41.30%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	13.1	0.0011444	mg/L	0.00001030	0.0011444	mg/L	0.00001030	0.90%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	-0.9	-0.0012585	mg/L	0.00042279	-0.0012585	mg/L	0.00042279	33.59%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	-39.5	-0.0003745	mg/L	0.00029396	-0.0003745	mg/L	0.00029396	78.49%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	54.7	-0.0000730	mg/L	0.00000370	-0.0000730	mg/L	0.00000370	5.07%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 15
Sample ID: MB 66498 (1)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 38
Date Collected: 2/28/2018 2:35:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MB 66498 (1)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sc 361.383	1396352.5	101	%	0.3				0.27%
Y 371.029	433676.0	98.1	%	2.34				2.38%
Ag 328.068†	-79.3	-0.0001319	mg/L	0.00015127	-0.0001319	mg/L	0.00015127	114.70%
Al 308.215†	721.3	0.0312862	mg/L	0.00166617	0.0312862	mg/L	0.00166617	5.33%
As 188.979†	-4.7	-0.0001500	mg/L	0.00011129	-0.0001500	mg/L	0.00011129	74.18%
Ba 233.527†	31.9	-0.0004038	mg/L	0.00011791	-0.0004038	mg/L	0.00011791	29.20%
Be 313.107†	6.3	0.0007867	mg/L	0.00000963	0.0007867	mg/L	0.00000963	1.22%
Ca 315.887†	15027.0	0.0503687	mg/L	0.00173571	0.0503687	mg/L	0.00173571	3.45%
Cd 228.802†	2.7	0.0006247	mg/L	0.00007377	0.0006247	mg/L	0.00007377	11.81%
Co 228.616†	6.0	-0.0012746	mg/L	0.00004169	-0.0012746	mg/L	0.00004169	3.27%
Cr 267.716†	54.2	0.0002425	mg/L	0.00003259	0.0002425	mg/L	0.00003259	13.44%
Cu 327.393†	63.8	0.0020827	mg/L	0.00004377	0.0020827	mg/L	0.00004377	2.10%
Fe 273.955†	581.9	0.0123165	mg/L	0.00110014	0.0123165	mg/L	0.00110014	8.93%
K 404.721†	18.9	1.04961	mg/L	0.279673	1.04961	mg/L	0.279673	26.65%
Mg 279.077†	179.0	-0.0770871	mg/L	0.00033487	-0.0770871	mg/L	0.00033487	0.43%
Mn 257.610†	527.7	-0.0000472	mg/L	0.00003439	-0.0000472	mg/L	0.00003439	72.83%
Mo 202.031†	1.4	0.0004265	mg/L	0.00005779	0.0004265	mg/L	0.00005779	13.55%
Na 330.237†	13.2	0.878792	mg/L	0.0233787	0.878792	mg/L	0.0233787	2.66%
Ni 231.604†	9.5	-0.0011733	mg/L	0.00022160	-0.0011733	mg/L	0.00022160	18.89%
Pb 220.353†	5.7	0.0002389	mg/L	0.00149681	0.0002389	mg/L	0.00149681	626.62%
Sb 206.836†	5.3	0.0022484	mg/L	0.00089968	0.0022484	mg/L	0.00089968	40.01%
Se 196.026†	-2.2	0.0012083	mg/L	0.00040099	0.0012083	mg/L	0.00040099	33.19%
Sn 189.927†	16.4	0.0044793	mg/L	0.00034106	0.0044793	mg/L	0.00034106	7.61%
Ti 334.940†	333.7	0.0014438	mg/L	0.00001258	0.0014438	mg/L	0.00001258	0.87%
Tl 190.801†	2.0	0.0005415	mg/L	0.00271931	0.0005415	mg/L	0.00271931	502.15%
V 290.880†	116.4	0.0003717	mg/L	0.00011611	0.0003717	mg/L	0.00011611	31.23%
Zn 206.200†	179.9	0.0017756	mg/L	0.00003009	0.0017756	mg/L	0.00003009	1.69%

Sequence No.: 16
Sample ID: LCSW 66498
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 2/28/2018 2:38:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCSW 66498

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1312276.5	94.7	%	0.13				0.14%
Y 371.029	399381.2	90.3	%	0.71				0.79%
Ag 328.068†	27432.6	0.102185	mg/L	0.0005335	0.102185	mg/L	0.0005335	0.52%
Al 308.215†	200189.4	5.21645	mg/L	0.024143	5.21645	mg/L	0.024143	0.46%
As 188.979†	902.8	0.525772	mg/L	0.0027143	0.525772	mg/L	0.0027143	0.52%
Ba 233.527†	70769.4	0.526583	mg/L	0.0021081	0.526583	mg/L	0.0021081	0.40%
Be 313.107†	1996297.6	0.522062	mg/L	0.0044326	0.522062	mg/L	0.0044326	0.85%
Ca 315.887†	7289408.2	53.1555	mg/L	0.42976	53.1555	mg/L	0.42976	0.81%
Cd 228.802†	34230.7	0.523214	mg/L	0.0004708	0.523214	mg/L	0.0004708	0.09%
Co 228.616†	31143.0	0.530178	mg/L	0.0004986	0.530178	mg/L	0.0004986	0.09%
Cr 267.716†	71016.4	0.525860	mg/L	0.0009768	0.525860	mg/L	0.0009768	0.19%
Cu 327.393†	74802.7	0.520560	mg/L	0.0060733	0.520560	mg/L	0.0060733	1.17%
Fe 273.955†	178263.3	5.30479	mg/L	0.022398	5.30479	mg/L	0.022398	0.42%
K 404.721†	5497.8	49.8560	mg/L	0.03405	49.8560	mg/L	0.03405	0.07%
Mg 279.077†	1105528.3	52.8680	mg/L	0.47661	52.8680	mg/L	0.47661	0.90%
Mn 257.610†	577850.5	0.524718	mg/L	0.0025321	0.524718	mg/L	0.0025321	0.48%
Mo 202.031†	8785.0	0.532086	mg/L	0.0014164	0.532086	mg/L	0.0014164	0.27%
Na 330.237†	68673.1	49.7880	mg/L	0.25372	49.7880	mg/L	0.25372	0.51%
Ni 231.604†	24954.3	0.528254	mg/L	0.0022075	0.528254	mg/L	0.0022075	0.42%
Pb 220.353†	5649.7	0.538943	mg/L	0.0033616	0.538943	mg/L	0.0033616	0.62%
Sb 206.836†	2136.3	0.525189	mg/L	0.0004737	0.525189	mg/L	0.0004737	0.09%
Se 196.026†	795.7	0.526687	mg/L	0.0023005	0.526687	mg/L	0.0023005	0.44%
Sn 189.927†	2422.5	0.535003	mg/L	0.0005134	0.535003	mg/L	0.0005134	0.10%
Ti 334.940†	554748.9	0.518013	mg/L	0.0022107	0.518013	mg/L	0.0022107	0.43%
Tl 190.801†	878.9	0.542510	mg/L	0.0047755	0.542510	mg/L	0.0047755	0.88%
V 290.880†	110106.5	0.527350	mg/L	0.0026459	0.527350	mg/L	0.0026459	0.50%
Zn 206.200†	36032.0	0.531229	mg/L	0.0028489	0.531229	mg/L	0.0028489	0.54%

Sequence No.: 17
Sample ID: LCSW MR 66498
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 40
Date Collected: 2/28/2018 2:43:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCSW MR 66498

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1311784.1	94.6	%	0.12				0.12%
Y 371.029	404179.2	91.4	%	3.06				3.35%
Ag 328.068†	26762.0	0.0996895	mg/L	0.00010066	0.0996895	mg/L	0.00010066	0.10%
Al 308.215†	194407.3	5.06615	mg/L	0.003064	5.06615	mg/L	0.003064	0.06%
As 188.979†	876.3	0.510418	mg/L	0.0021561	0.510418	mg/L	0.0021561	0.42%
Ba 233.527†	68844.6	0.512249	mg/L	0.0004479	0.512249	mg/L	0.0004479	0.09%
Be 313.107†	1922497.3	0.502789	mg/L	0.0042554	0.502789	mg/L	0.0042554	0.85%
Ca 315.887†	7039878.9	51.3339	mg/L	0.32517	51.3339	mg/L	0.32517	0.63%
Cd 228.802†	33119.7	0.506252	mg/L	0.0001420	0.506252	mg/L	0.0001420	0.03%
Co 228.616†	30293.4	0.515681	mg/L	0.0000947	0.515681	mg/L	0.0000947	0.02%
Cr 267.716†	69147.2	0.512024	mg/L	0.0005934	0.512024	mg/L	0.0005934	0.12%
Cu 327.393†	73202.1	0.509416	mg/L	0.0158985	0.509416	mg/L	0.0158985	3.12%
Fe 273.955†	172916.6	5.14553	mg/L	0.003797	5.14553	mg/L	0.003797	0.07%
K 404.721†	5299.1	48.0862	mg/L	0.53903	48.0862	mg/L	0.53903	1.12%
Mg 279.077†	1066901.7	51.0178	mg/L	0.31382	51.0178	mg/L	0.31382	0.62%
Mn 257.610†	554525.4	0.503506	mg/L	0.0044184	0.503506	mg/L	0.0044184	0.88%
Mo 202.031†	8464.0	0.512659	mg/L	0.0002511	0.512659	mg/L	0.0002511	0.05%
Na 330.237†	66266.6	48.0737	mg/L	0.01896	48.0737	mg/L	0.01896	0.04%
Ni 231.604†	24423.8	0.516995	mg/L	0.0006805	0.516995	mg/L	0.0006805	0.13%
Pb 220.353†	5372.3	0.512493	mg/L	0.0000753	0.512493	mg/L	0.0000753	0.01%
Sb 206.836†	2068.4	0.508517	mg/L	0.0031617	0.508517	mg/L	0.0031617	0.62%
Se 196.026†	762.4	0.504780	mg/L	0.0041818	0.504780	mg/L	0.0041818	0.83%
Sn 189.927†	2333.3	0.515340	mg/L	0.0012587	0.515340	mg/L	0.0012587	0.24%
Ti 334.940†	537422.0	0.501876	mg/L	0.0114471	0.501876	mg/L	0.0114471	2.28%
Tl 190.801†	853.0	0.526504	mg/L	0.0012422	0.526504	mg/L	0.0012422	0.24%
V 290.880†	107085.7	0.512877	mg/L	0.0006105	0.512877	mg/L	0.0006105	0.12%
Zn 206.200†	35019.3	0.516274	mg/L	0.0001165	0.516274	mg/L	0.0001165	0.02%

Sequence No.: 18
Sample ID: AD02743-006
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 47
Date Collected: 2/28/2018 2:48:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02743-006

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1173093.5	84.6	%	1.16				1.38%
Y 371.029	357030.6	80.7	%	0.72				0.89%
Ag 328.068†	-101.0	0.0006689	mg/L	0.00003785	0.0006689	mg/L	0.00003785	5.66%
Al 308.215†	9634.4	0.262982	mg/L	0.0049925	0.262982	mg/L	0.0049925	1.90%
As 188.979†	25.9	0.0240402	mg/L	0.00522024	0.0240402	mg/L	0.00522024	21.71%
Ba 233.527†	130722.5	0.972121	mg/L	0.0094769	0.972121	mg/L	0.0094769	0.97%
Be 313.107†	-744.7	0.0005870	mg/L	0.00001156	0.0005870	mg/L	0.00001156	1.97%
Ca 315.887†	23491354.6	171.435	mg/L	0.2930	171.435	mg/L	0.2930	0.17%
Cd 228.802†	7.8	0.0007978	mg/L	0.00012421	0.0007978	mg/L	0.00012421	15.57%
Co 228.616†	127.6	0.0003232	mg/L	0.00025317	0.0003232	mg/L	0.00025317	78.34%
Cr 267.716†	1429.9	0.0069070	mg/L	0.00016520	0.0069070	mg/L	0.00016520	2.39%
Cu 327.393†	-615.0	0.0034631	mg/L	0.00032800	0.0034631	mg/L	0.00032800	9.47%
Fe 273.955†	633013.5	18.8501	mg/L	0.01973	18.8501	mg/L	0.01973	0.10%
K 404.721†	10322.9	92.8382	mg/L	0.62253	92.8382	mg/L	0.62253	0.67%
Mg 279.077†	3488201.6	166.996	mg/L	0.1856	166.996	mg/L	0.1856	0.11%
Mn 257.610†	1581876.0	1.43660	mg/L	0.003325	1.43660	mg/L	0.003325	0.23%
Mo 202.031†	119.4	0.0075695	mg/L	0.00001718	0.0075695	mg/L	0.00001718	0.23%
Na 330.237†	1985470.6	1415.20	mg/L	5.672	1415.20	mg/L	5.672	0.40%
Ni 231.604†	321.4	0.0057324	mg/L	0.00005712	0.0057324	mg/L	0.00005712	1.00%
Pb 220.353†	-29.6	-0.0032320	mg/L	0.00082568	-0.0032320	mg/L	0.00082568	25.55%
Sb 206.836†	2.2	0.0003133	mg/L	0.00198359	0.0003133	mg/L	0.00198359	633.19%
Se 196.026†	-2.5	0.0044657	mg/L	0.00098321	0.0044657	mg/L	0.00098321	22.02%
Sn 189.927†	-22.2	-0.0012434	mg/L	0.00080893	-0.0012434	mg/L	0.00080893	65.06%
Ti 334.940†	6109.9	0.0016017	mg/L	0.00040862	0.0016017	mg/L	0.00040862	25.51%
Tl 190.801†	1.8	-0.0012076	mg/L	0.00529205	-0.0012076	mg/L	0.00529205	438.24%
V 290.880†	1812.5	0.0058063	mg/L	0.00095571	0.0058063	mg/L	0.00095571	16.46%
Zn 206.200†	3198.7	0.0463587	mg/L	0.00054338	0.0463587	mg/L	0.00054338	1.17%

Sequence No.: 19
Sample ID: AD02743-007
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 48
Date Collected: 2/28/2018 2:52:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02743-007

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1400589.1	101	%	0.4				0.44%
Y 371.029	430906.5	97.4	%	0.35				0.36%
Ag 328.068†	-80.1	-0.0001345	mg/L	0.00035083	-0.0001345	mg/L	0.00035083	260.88%
Al 308.215†	1561.1	0.0531182	mg/L	0.00655176	0.0531182	mg/L	0.00655176	12.33%
As 188.979†	-5.9	-0.0008381	mg/L	0.00004159	-0.0008381	mg/L	0.00004159	4.96%
Ba 233.527†	56.9	-0.0002181	mg/L	0.00004505	-0.0002181	mg/L	0.00004505	20.66%
Be 313.107†	95.1	0.0008098	mg/L	0.00001075	0.0008098	mg/L	0.00001075	1.33%
Ca 315.887†	23439.3	0.111781	mg/L	0.0093129	0.111781	mg/L	0.0093129	8.33%
Cd 228.802†	7.1	0.0006922	mg/L	0.00009502	0.0006922	mg/L	0.00009502	13.73%
Co 228.616†	0.7	-0.0013650	mg/L	0.00019411	-0.0013650	mg/L	0.00019411	14.22%
Cr 267.716†	13.7	-0.0000581	mg/L	0.00018535	-0.0000581	mg/L	0.00018535	319.20%
Cu 327.393†	154.9	0.0027131	mg/L	0.00023043	0.0027131	mg/L	0.00023043	8.49%
Fe 273.955†	882.7	0.0212776	mg/L	0.00268978	0.0212776	mg/L	0.00268978	12.64%
K 404.721†	77.3	1.57007	mg/L	0.199822	1.57007	mg/L	0.199822	12.73%
Mg 279.077†	759.8	-0.0492653	mg/L	0.00601886	-0.0492653	mg/L	0.00601886	12.22%
Mn 257.610†	1175.9	0.0005430	mg/L	0.00011721	0.0005430	mg/L	0.00011721	21.58%
Mo 202.031†	2.4	0.0004855	mg/L	0.00016926	0.0004855	mg/L	0.00016926	34.86%
Na 330.237†	493.1	1.22058	mg/L	0.045077	1.22058	mg/L	0.045077	3.69%
Ni 231.604†	16.4	-0.0010267	mg/L	0.00021114	-0.0010267	mg/L	0.00021114	20.56%
Pb 220.353†	-6.6	-0.0009234	mg/L	0.00025070	-0.0009234	mg/L	0.00025070	27.15%
Sb 206.836†	3.1	0.0017097	mg/L	0.00143511	0.0017097	mg/L	0.00143511	83.94%
Se 196.026†	-1.4	0.0017170	mg/L	0.00057815	0.0017170	mg/L	0.00057815	33.67%
Sn 189.927†	26.0	0.0065742	mg/L	0.00007316	0.0065742	mg/L	0.00007316	1.11%
Ti 334.940†	523.9	0.0016206	mg/L	0.00020245	0.0016206	mg/L	0.00020245	12.49%
Tl 190.801†	4.5	0.0020370	mg/L	0.00296438	0.0020370	mg/L	0.00296438	145.53%
V 290.880†	80.9	0.0002010	mg/L	0.00041245	0.0002010	mg/L	0.00041245	205.25%
Zn 206.200†	276.2	0.0031978	mg/L	0.00008719	0.0031978	mg/L	0.00008719	2.73%

Sequence No.: 20
Sample ID: AD02743-009
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 49
Date Collected: 2/28/2018 2:55:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02743-009

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1196727.2	86.3	%	0.16				0.19%
Y 371.029	366848.1	83.0	%	0.85				1.03%
Ag 328.068†	-198.7	0.0003054	mg/L	0.00000108	0.0003054	mg/L	0.00000108	0.35%
Al 308.215†	8414.4	0.231268	mg/L	0.0045691	0.231268	mg/L	0.0045691	1.98%
As 188.979†	22.0	0.0215170	mg/L	0.00238390	0.0215170	mg/L	0.00238390	11.08%
Ba 233.527†	127927.6	0.951394	mg/L	0.0111248	0.951394	mg/L	0.0111248	1.17%
Be 313.107†	-843.1	0.0005612	mg/L	0.00001041	0.0005612	mg/L	0.00001041	1.86%
Ca 315.887†	22342998.2	163.051	mg/L	0.5870	163.051	mg/L	0.5870	0.36%
Cd 228.802†	5.9	0.0007678	mg/L	0.00006680	0.0007678	mg/L	0.00006680	8.70%
Co 228.616†	124.3	0.0002668	mg/L	0.00010368	0.0002668	mg/L	0.00010368	38.85%
Cr 267.716†	1328.8	0.0063850	mg/L	0.00006395	0.0063850	mg/L	0.00006395	1.00%
Cu 327.393†	-596.9	0.0034170	mg/L	0.00054737	0.0034170	mg/L	0.00054737	16.02%
Fe 273.955†	632337.5	18.8300	mg/L	0.05694	18.8300	mg/L	0.05694	0.30%
K 404.721†	9380.2	84.4411	mg/L	0.87850	84.4411	mg/L	0.87850	1.04%
Mg 279.077†	3263591.1	156.237	mg/L	0.2955	156.237	mg/L	0.2955	0.19%
Mn 257.610†	1530063.7	1.38971	mg/L	0.002339	1.38971	mg/L	0.002339	0.17%
Mo 202.031†	107.8	0.0068664	mg/L	0.00017364	0.0068664	mg/L	0.00017364	2.53%
Na 330.237†	1814581.9	1293.47	mg/L	1.441	1293.47	mg/L	1.441	0.11%
Ni 231.604†	328.2	0.0058773	mg/L	0.00018914	0.0058773	mg/L	0.00018914	3.22%
Pb 220.353†	-31.0	-0.0034292	mg/L	0.00102396	-0.0034292	mg/L	0.00102396	29.86%
Sb 206.836†	-4.7	-0.0013967	mg/L	0.00187035	-0.0013967	mg/L	0.00187035	133.92%
Se 196.026†	-5.0	0.0029305	mg/L	0.00311590	0.0029305	mg/L	0.00311590	106.33%
Sn 189.927†	-27.3	-0.0024820	mg/L	0.00080348	-0.0024820	mg/L	0.00080348	32.37%
Ti 334.940†	6334.4	0.0021372	mg/L	0.00000209	0.0021372	mg/L	0.00000209	0.10%
Tl 190.801†	6.4	0.0018975	mg/L	0.00367836	0.0018975	mg/L	0.00367836	193.85%
V 290.880†	1776.2	0.0057408	mg/L	0.00036893	0.0057408	mg/L	0.00036893	6.43%
Zn 206.200†	2929.2	0.0423778	mg/L	0.00017711	0.0423778	mg/L	0.00017711	0.42%

Sequence No.: 21
Sample ID: ICSA V-273217
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/28/2018 2:59:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-273217

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1153389.5	83.2	%	0.47				0.56%
Y 371.029	355478.7	80.4	%	0.61				0.76%
Ag 328.068†	-2198.2	0.0006344	mg/L	0.00027201	0.0006344	mg/L	0.00027201	42.88%
Al 308.215†	19047346.1	495.147	mg/L	3.0490	495.147	mg/L	3.0490	0.62%
QC value within limits for Al 308.215 Recovery = 99.03%								
As 188.979†	-89.7	0.0405111	mg/L	0.00015742	0.0405111	mg/L	0.00015742	0.39%
Ba 233.527†	982.9	-0.0004051	mg/L	0.00003311	-0.0004051	mg/L	0.00003311	8.17%
Be 313.107†	-3987.5	-0.0002692	mg/L	0.00001439	-0.0002692	mg/L	0.00001439	5.34%
Ca 315.887†	64372755.2	469.881	mg/L	1.8456	469.881	mg/L	1.8456	0.39%
QC value within limits for Ca 315.887 Recovery = 93.98%								
Cd 228.802†	-211.0	-0.0017082	mg/L	0.00025632	-0.0017082	mg/L	0.00025632	15.01%
Co 228.616†	265.4	-0.0065639	mg/L	0.00003068	-0.0065639	mg/L	0.00003068	0.47%
Cr 267.716†	897.6	-0.0037997	mg/L	0.00002475	-0.0037997	mg/L	0.00002475	0.65%
Cu 327.393†	-5769.6	-0.0032849	mg/L	0.00032664	-0.0032849	mg/L	0.00032664	9.94%
Fe 273.955†	6190402.0	184.384	mg/L	0.7929	184.384	mg/L	0.7929	0.43%
QC value within limits for Fe 273.955 Recovery = 92.19%								
K 404.721†	-591.0	-4.38394	mg/L	0.288984	-4.38394	mg/L	0.288984	6.59%
Mg 279.077†	10129917.5	485.127	mg/L	1.8568	485.127	mg/L	1.8568	0.38%
QC value within limits for Mg 279.077 Recovery = 97.03%								
Mn 257.610†	25375.2	0.0063307	mg/L	0.00000438	0.0063307	mg/L	0.00000438	0.07%
Mo 202.031†	-306.4	-0.0071509	mg/L	0.00091229	-0.0071509	mg/L	0.00091229	12.76%
Na 330.237†	333.1	1.10667	mg/L	0.029894	1.10667	mg/L	0.029894	2.70%
Ni 231.604†	94.0	0.0034311	mg/L	0.00046537	0.0034311	mg/L	0.00046537	13.56%
Pb 220.353†	-1258.0	0.0016817	mg/L	0.00059590	0.0016817	mg/L	0.00059590	35.44%
Sb 206.836†	-28.1	0.0113693	mg/L	0.00321119	0.0113693	mg/L	0.00321119	28.24%
Se 196.026†	-194.1	-0.0143016	mg/L	0.00748712	-0.0143016	mg/L	0.00748712	52.35%
Sn 189.927†	-114.8	-0.0092521	mg/L	0.00068686	-0.0092521	mg/L	0.00068686	7.42%
Ti 334.940†	21351.9	0.0060216	mg/L	0.00001972	0.0060216	mg/L	0.00001972	0.33%
Tl 190.801†	112.6	-0.0611897	mg/L	0.00541804	-0.0611897	mg/L	0.00541804	8.85%
V 290.880†	2329.2	-0.0039664	mg/L	0.00009989	-0.0039664	mg/L	0.00009989	2.52%
Zn 206.200†	1339.9	0.0138392	mg/L	0.00010158	0.0138392	mg/L	0.00010158	0.73%

All analyte(s) passed QC.

Sequence No.: 22 Autosampler Location: 8
Sample ID: ICSAB V-273219 Date Collected: 2/28/2018 3:05:14 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: ICSAB V-273219

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1150628.5	83.0	%	0.29				0.35%
Y 371.029	353460.8	79.9	%	3.08				3.85%
Ag 328.068†	296486.5	1.10881	mg/L	0.015548	1.10881	mg/L	0.015548	1.40%
QC value within limits for Ag 328.068 Recovery = 110.88%								
Al 308.215†	19199614.6	499.106	mg/L	1.0967	499.106	mg/L	1.0967	0.22%
QC value within limits for Al 308.215 Recovery = 99.82%								
As 188.979†	1682.2	1.06460	mg/L	0.011242	1.06460	mg/L	0.011242	1.06%
QC value within limits for As 188.979 Recovery = 106.46%								
Ba 233.527†	70332.4	0.516974	mg/L	0.0085374	0.516974	mg/L	0.0085374	1.65%
QC value within limits for Ba 233.527 Recovery = 103.39%								
Be 313.107†	1917531.8	0.501795	mg/L	0.0009771	0.501795	mg/L	0.0009771	0.19%
QC value within limits for Be 313.107 Recovery = 100.36%								
Ca 315.887†	64858608.0	473.428	mg/L	0.3743	473.428	mg/L	0.3743	0.08%
QC value within limits for Ca 315.887 Recovery = 94.69%								
Cd 228.802†	68242.6	1.04339	mg/L	0.014896	1.04339	mg/L	0.014896	1.43%
QC value within limits for Cd 228.802 Recovery = 104.34%								
Co 228.616†	27786.1	0.464087	mg/L	0.0017645	0.464087	mg/L	0.0017645	0.38%
QC value within limits for Co 228.616 Recovery = 92.82%								
Cr 267.716†	68080.8	0.494799	mg/L	0.0060535	0.494799	mg/L	0.0060535	1.22%
QC value within limits for Cr 267.716 Recovery = 98.96%								
Cu 327.393†	73697.5	0.544121	mg/L	0.0220106	0.544121	mg/L	0.0220106	4.05%
QC value within limits for Cu 327.393 Recovery = 108.82%								
Fe 273.955†	6230716.4	185.585	mg/L	0.8061	185.585	mg/L	0.8061	0.43%
QC value within limits for Fe 273.955 Recovery = 92.79%								
K 404.721†	-525.2	-3.79713	mg/L	0.468201	-3.79713	mg/L	0.468201	12.33%
Mg 279.077†	10219845.8	489.434	mg/L	0.4465	489.434	mg/L	0.4465	0.09%
QC value within limits for Mg 279.077 Recovery = 97.89%								
Mn 257.610†	574856.3	0.507335	mg/L	0.0085697	0.507335	mg/L	0.0085697	1.69%
QC value within limits for Mn 257.610 Recovery = 101.47%								
Mo 202.031†	-303.9	-0.0069088	mg/L	0.00078866	-0.0069088	mg/L	0.00078866	11.42%
Na 330.237†	632.7	1.32008	mg/L	0.046092	1.32008	mg/L	0.046092	3.49%
Ni 231.604†	43221.9	0.918653	mg/L	0.0037853	0.918653	mg/L	0.0037853	0.41%
QC value within limits for Ni 231.604 Recovery = 91.87%								
Pb 220.353†	8908.1	0.969972	mg/L	0.0038534	0.969972	mg/L	0.0038534	0.40%
QC value within limits for Pb 220.353 Recovery = 97.00%								
Sb 206.836†	4202.1	1.04860	mg/L	0.005766	1.04860	mg/L	0.005766	0.55%
QC value within limits for Sb 206.836 Recovery = 104.86%								
Se 196.026†	1342.2	0.996135	mg/L	0.0078976	0.996135	mg/L	0.0078976	0.79%
QC value within limits for Se 196.026 Recovery = 99.61%								
Sn 189.927†	-127.6	-0.0119596	mg/L	0.00149424	-0.0119596	mg/L	0.00149424	12.49%
Ti 334.940†	21697.2	0.0062134	mg/L	0.00039811	0.0062134	mg/L	0.00039811	6.41%
Tl 190.801†	1648.4	0.884538	mg/L	0.0049344	0.884538	mg/L	0.0049344	0.56%
QC value within limits for Tl 190.801 Recovery = 88.45%								
V 290.880†	106000.5	0.492986	mg/L	0.0078931	0.492986	mg/L	0.0078931	1.60%
QC value within limits for V 290.880 Recovery = 98.60%								
Zn 206.200†	66473.3	0.975768	mg/L	0.0181126	0.975768	mg/L	0.0181126	1.86%
QC value within limits for Zn 206.200 Recovery = 97.58%								

All analyte(s) passed QC.

Sequence No.: 23
Sample ID: CCV V-273563
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/28/2018 3:10:53 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-273563

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	1288936.3	93.0	%	0.60				0.64%
Y 371.029	403574.4	91.3	%	0.41				0.44%
Ag 328.068†	26324.3	0.0980591	mg/L	0.00072965	0.0980591	mg/L	0.00072965	0.74%
QC value within limits for Ag 328.068 Recovery = 98.06%								
Al 308.215†	190054.6	4.95300	mg/L	0.027115	4.95300	mg/L	0.027115	0.55%
QC value within limits for Al 308.215 Recovery = 99.06%								
As 188.979†	849.7	0.494996	mg/L	0.0012060	0.494996	mg/L	0.0012060	0.24%
QC value within limits for As 188.979 Recovery = 99.00%								
Ba 233.527†	66170.2	0.492306	mg/L	0.0016359	0.492306	mg/L	0.0016359	0.33%
QC value within limits for Ba 233.527 Recovery = 98.46%								
Be 313.107†	1874126.5	0.490150	mg/L	0.0025643	0.490150	mg/L	0.0025643	0.52%
QC value within limits for Be 313.107 Recovery = 98.03%								
Ca 315.887†	6939447.4	50.6007	mg/L	0.24489	50.6007	mg/L	0.24489	0.48%
QC value within limits for Ca 315.887 Recovery = 101.20%								
Cd 228.802†	32059.8	0.490070	mg/L	0.0031244	0.490070	mg/L	0.0031244	0.64%
QC value within limits for Cd 228.802 Recovery = 98.01%								
Co 228.616†	29366.8	0.499837	mg/L	0.0038647	0.499837	mg/L	0.0038647	0.77%
QC value within limits for Co 228.616 Recovery = 99.97%								
Cr 267.716†	67992.1	0.503455	mg/L	0.0029716	0.503455	mg/L	0.0029716	0.59%
QC value within limits for Cr 267.716 Recovery = 100.69%								
Cu 327.393†	72113.7	0.501890	mg/L	0.0010160	0.501890	mg/L	0.0010160	0.20%
QC value within limits for Cu 327.393 Recovery = 100.38%								
Fe 273.955†	168463.2	5.01288	mg/L	0.029423	5.01288	mg/L	0.029423	0.59%
QC value within limits for Fe 273.955 Recovery = 100.26%								
K 404.721†	5065.1	46.0017	mg/L	0.59849	46.0017	mg/L	0.59849	1.30%
QC value within limits for K 404.721 Recovery = 92.00%								
Mg 279.077†	1061849.5	50.7758	mg/L	0.21338	50.7758	mg/L	0.21338	0.42%
QC value within limits for Mg 279.077 Recovery = 101.55%								
Mn 257.610†	548045.0	0.497604	mg/L	0.0027858	0.497604	mg/L	0.0027858	0.56%
QC value within limits for Mn 257.610 Recovery = 99.52%								
Mo 202.031†	8316.1	0.503705	mg/L	0.0020757	0.503705	mg/L	0.0020757	0.41%
QC value within limits for Mo 202.031 Recovery = 100.74%								
Na 330.237†	65238.7	47.3415	mg/L	0.34595	47.3415	mg/L	0.34595	0.73%
QC value within limits for Na 330.237 Recovery = 94.68%								
Ni 231.604†	23581.0	0.499108	mg/L	0.0040570	0.499108	mg/L	0.0040570	0.81%
QC value within limits for Ni 231.604 Recovery = 99.82%								
Pb 220.353†	5252.3	0.501044	mg/L	0.0031232	0.501044	mg/L	0.0031232	0.62%
QC value within limits for Pb 220.353 Recovery = 100.21%								
Sb 206.836†	2038.3	0.501161	mg/L	0.0055875	0.501161	mg/L	0.0055875	1.11%
QC value within limits for Sb 206.836 Recovery = 100.23%								
Se 196.026†	756.0	0.500592	mg/L	0.0069197	0.500592	mg/L	0.0069197	1.38%
QC value within limits for Se 196.026 Recovery = 100.12%								
Sn 189.927†	2279.9	0.503620	mg/L	0.0030493	0.503620	mg/L	0.0030493	0.61%
QC value within limits for Sn 189.927 Recovery = 100.72%								
Ti 334.940†	537710.5	0.502161	mg/L	0.0040184	0.502161	mg/L	0.0040184	0.80%
QC value within limits for Ti 334.940 Recovery = 100.43%								
Tl 190.801†	810.4	0.500310	mg/L	0.0010037	0.500310	mg/L	0.0010037	0.20%
QC value within limits for Tl 190.801 Recovery = 100.06%								
V 290.880†	103435.3	0.495378	mg/L	0.0036778	0.495378	mg/L	0.0036778	0.74%
QC value within limits for V 290.880 Recovery = 99.08%								
Zn 206.200†	34016.1	0.501459	mg/L	0.0048760	0.501459	mg/L	0.0048760	0.97%
QC value within limits for Zn 206.200 Recovery = 100.29%								

All analyte(s) passed QC.

Sequence No.: 24 Autosampler Location: 5
Sample ID: LLCCV [aq] V-274418 Date Collected: 2/28/2018 3:15:49 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: LLCCV [aq] V-274418

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1359892.6	98.1	%	0.03				0.03%
Y 371.029	428100.0	96.8	%	2.03				2.10%
Ag 328.068†	5381.2	0.0201399	mg/L	0.00010654	0.0201399	mg/L	0.00010654	0.53%
QC value within limits for Ag 328.068 Recovery = 100.70%								
Al 308.215†	8023.7	0.221114	mg/L	0.0053644	0.221114	mg/L	0.0053644	2.43%
QC value within limits for Al 308.215 Recovery = 110.56%								
As 188.979†	26.6	0.0180909	mg/L	0.00105469	0.0180909	mg/L	0.00105469	5.83%
QC value within limits for As 188.979 Recovery = 90.45%								
Ba 233.527†	6887.6	0.0506722	mg/L	0.00012633	0.0506722	mg/L	0.00012633	0.25%
QC value within limits for Ba 233.527 Recovery = 101.34%								
Be 313.107†	45113.6	0.0125410	mg/L	0.00011282	0.0125410	mg/L	0.00011282	0.90%
QC value within limits for Be 313.107 Recovery = 104.51%								
Ca 315.887†	706571.8	5.09885	mg/L	0.023889	5.09885	mg/L	0.023889	0.47%
QC value within limits for Ca 315.887 Recovery = 101.98%								
Cd 228.802†	781.6	0.0125176	mg/L	0.00016963	0.0125176	mg/L	0.00016963	1.36%
QC value within limits for Cd 228.802 Recovery = 104.31%								
Co 228.616†	1221.5	0.0194164	mg/L	0.00000363	0.0194164	mg/L	0.00000363	0.02%
QC value within limits for Co 228.616 Recovery = 97.08%								
Cr 267.716†	6935.7	0.0512114	mg/L	0.00014338	0.0512114	mg/L	0.00014338	0.28%
QC value within limits for Cr 267.716 Recovery = 102.42%								
Cu 327.393†	7450.6	0.0532859	mg/L	0.00090664	0.0532859	mg/L	0.00090664	1.70%
QC value within limits for Cu 327.393 Recovery = 106.57%								
Fe 273.955†	10397.5	0.304690	mg/L	0.0019135	0.304690	mg/L	0.0019135	0.63%
QC value within limits for Fe 273.955 Recovery = 101.56%								
K 404.721†	464.9	5.02283	mg/L	0.312950	5.02283	mg/L	0.312950	6.23%
QC value within limits for K 404.721 Recovery = 100.46%								
Mg 279.077†	109829.6	5.17506	mg/L	0.027152	5.17506	mg/L	0.027152	0.52%
QC value within limits for Mg 279.077 Recovery = 103.50%								
Mn 257.610†	45382.5	0.0406859	mg/L	0.00026275	0.0406859	mg/L	0.00026275	0.65%
QC value within limits for Mn 257.610 Recovery = 101.71%								
Mo 202.031†	339.5	0.0208912	mg/L	0.00020746	0.0208912	mg/L	0.00020746	0.99%
QC value within limits for Mo 202.031 Recovery = 104.46%								
Na 330.237†	5665.8	4.90534	mg/L	0.032843	4.90534	mg/L	0.032843	0.67%
QC value within limits for Na 330.237 Recovery = 98.11%								
Ni 231.604†	2426.3	0.0501175	mg/L	0.00010149	0.0501175	mg/L	0.00010149	0.20%
QC value within limits for Ni 231.604 Recovery = 100.23%								
Pb 220.353†	124.9	0.0116571	mg/L	0.00056564	0.0116571	mg/L	0.00056564	4.85%
QC value within limits for Pb 220.353 Recovery = 97.14%								
Sb 206.836†	82.0	0.0211324	mg/L	0.00032020	0.0211324	mg/L	0.00032020	1.52%
QC value within limits for Sb 206.836 Recovery = 105.66%								
Se 196.026†	57.5	0.0404467	mg/L	0.00214946	0.0404467	mg/L	0.00214946	5.31%
QC value within limits for Se 196.026 Recovery = 101.12%								
Sn 189.927†	231.8	0.0519770	mg/L	0.00020684	0.0519770	mg/L	0.00020684	0.40%
QC value within limits for Sn 189.927 Recovery = 103.95%								
Ti 334.940†	53897.6	0.0513647	mg/L	0.00085087	0.0513647	mg/L	0.00085087	1.66%
QC value within limits for Ti 334.940 Recovery = 102.73%								
Tl 190.801†	38.5	0.0232200	mg/L	0.00078457	0.0232200	mg/L	0.00078457	3.38%
QC value within limits for Tl 190.801 Recovery = 116.10%								
V 290.880†	10657.5	0.0508605	mg/L	0.00051891	0.0508605	mg/L	0.00051891	1.02%
QC value within limits for V 290.880 Recovery = 101.72%								
Zn 206.200†	3427.1	0.0497317	mg/L	0.00001801	0.0497317	mg/L	0.00001801	0.04%
QC value within limits for Zn 206.200 Recovery = 99.46%								

All analyte(s) passed QC.

Sequence No.: 25
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 2/28/2018 3:19:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1368791.8	98.7	%	0.20				0.21%
Y 371.029	432676.6	97.8	%	1.39				1.42%
Ag 328.068†	-21.5	0.0000815	mg/L	0.00013008	0.0000815	mg/L	0.00013008	159.66%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	149.6	0.0164254	mg/L	0.00111079	0.0164254	mg/L	0.00111079	6.76%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-2.7	0.0009926	mg/L	0.00059976	0.0009926	mg/L	0.00059976	60.42%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	-6.6	-0.0006897	mg/L	0.00008574	-0.0006897	mg/L	0.00008574	12.43%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	67.7	0.0008029	mg/L	0.00001852	0.0008029	mg/L	0.00001852	2.31%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	-36.6	-0.0596003	mg/L	0.00011949	-0.0596003	mg/L	0.00011949	0.20%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 228.802†	7.0	0.0006898	mg/L	0.00001120	0.0006898	mg/L	0.00001120	1.62%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	4.6	-0.0012970	mg/L	0.00035743	-0.0012970	mg/L	0.00035743	27.56%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-47.9	-0.0005150	mg/L	0.00015590	-0.0005150	mg/L	0.00015590	30.27%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	55.1	0.0020168	mg/L	0.00037888	0.0020168	mg/L	0.00037888	18.79%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955†	-23.9	-0.0057259	mg/L	0.00014747	-0.0057259	mg/L	0.00014747	2.58%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 404.721†	2.7	0.904823	mg/L	0.5371940	0.904823	mg/L	0.5371940	59.37%
QC value within limits for K 404.721 Recovery = Not calculated								
Mg 279.077†	100.2	-0.0808628	mg/L	0.00161281	-0.0808628	mg/L	0.00161281	1.99%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	53.7	-0.0004793	mg/L	0.00001928	-0.0004793	mg/L	0.00001928	4.02%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	0.1	0.0003456	mg/L	0.00033158	0.0003456	mg/L	0.00033158	95.93%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 330.237†	29.8	0.890572	mg/L	0.0118203	0.890572	mg/L	0.0118203	1.33%
QC value within limits for Na 330.237 Recovery = Not calculated								
Ni 231.604†	3.9	-0.0012918	mg/L	0.00018394	-0.0012918	mg/L	0.00018394	14.24%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-0.5	-0.0003503	mg/L	0.00042500	-0.0003503	mg/L	0.00042500	121.33%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	1.4	0.0012981	mg/L	0.00058739	0.0012981	mg/L	0.00058739	45.25%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-1.4	0.0017139	mg/L	0.00212178	0.0017139	mg/L	0.00212178	123.80%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	4.2	0.0017888	mg/L	0.00092727	0.0017888	mg/L	0.00092727	51.84%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	32.1	0.0011623	mg/L	0.00001038	0.0011623	mg/L	0.00001038	0.89%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	0.6	-0.0003409	mg/L	0.00111486	-0.0003409	mg/L	0.00111486	326.99%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	74.6	0.0001726	mg/L	0.00015220	0.0001726	mg/L	0.00015220	88.20%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	6.1	-0.0007917	mg/L	0.00001148	-0.0007917	mg/L	0.00001148	1.45%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

8022605 0574

File SW22208B2 Batch 22208 SW846

Analyst F 3/1/18

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Analysis Begun

Start Time: 2/28/2018 3:27:06 PM
Logged In Analyst: shiamala
Spectrometer Model: Optima 4300 DV, S/N 077N1030901
Plasma On Time: 2/28/2018 9:38:45 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\administrator\Sample Information\02.28.18.sif
Batch ID:
Results Data Set: SW22208B2
Results Library: C:\pe\administrator\Results\Results.mdb

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Method Loaded
Method Name: PE 2 4300DV RADIAL
IEC File: IECrd082117.iec
Method Description: 200.7/6010B/6010C
Method Last Saved: 2/28/2018 1:32:39 PM
MSF File:

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Sequence No.: 1
Sample ID: CALBLK V-273721
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 2/28/2018 3:27:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALBLK V-273721

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	14599.2	180.90	1.24%	100.000	%
Sc 361.383	35201.8	457.64	1.30%	100.0	%
Al 308.215†	141.9	3.12	2.20%	[0.00]	mg/L
Ca 315.887†	300.2	3.45	1.15%	[0.00]	mg/L
Fe 273.955†	-41.7	5.29	12.69%	[0.00]	mg/L
Mg 279.077†	-91.0	7.35	8.08%	[0.00]	mg/L
Mn 257.610†	133.0	2.27	1.71%	[0.00]	mg/L
K 766.490†	831.5	15.14	1.82%	[0.00]	mg/L
Na 589.592†	980.9	0.47	0.05%	[0.00]	mg/L
Ti 334.940†	47.9	0.93	1.94%	[0.00]	mg/L

22208 6649

Na, K reported

02743.006 2D
009 2D
} Na reported

02799.002 Na not reported

Sequence No.: 2
Sample ID: CALST2 V-273214
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 2/28/2018 3:31:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST2 V-273214

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	14509.5	134.06	0.92%	99.3862	%
Sc 361.383	35108.7	424.46	1.21%	99.7	%
Al 308.215†	73.4	6.12	8.34%	[0.1]	mg/L
Ca 315.887†	3702.8	57.92	1.56%	[1]	mg/L
Fe 273.955†	86.1	1.23	1.43%	[0.1]	mg/L
Mg 279.077†	602.6	3.04	0.50%	[1]	mg/L
Mn 257.610†	265.4	3.55	1.34%	[0.01]	mg/L
K 766.490†	2194.0	16.74	0.76%	[1]	mg/L
Na 589.592†	8616.3	54.20	0.63%	[1]	mg/L
Ti 334.940†	264.8	2.75	1.04%	[0.01]	mg/L

Sequence No.: 3
Sample ID: CALST3 V-273216
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 2/28/2018 3:34:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST3 V-273216

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	14185.0	21.77	0.15%	97.1631	%
Sc 361.383	34553.4	32.26	0.09%	98.2	%
Al 308.215†	3340.5	5.22	0.16%	[5]	mg/L
Ca 315.887†	176298.1	1123.32	0.64%	[50]	mg/L
Fe 273.955†	4125.4	7.72	0.19%	[5]	mg/L
Mg 279.077†	29052.5	103.09	0.35%	[50]	mg/L
Mn 257.610†	12809.8	29.04	0.23%	[0.5]	mg/L
K 766.490†	102348.0	189.07	0.18%	[50]	mg/L
Na 589.592†	405586.4	1213.21	0.30%	[50]	mg/L
Ti 334.940†	12755.9	117.76	0.92%	[0.5]	mg/L

Sequence No.: 4
Sample ID: CALST4 V-272853
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/28/2018 3:37:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST4 V-272853

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	14101.4	45.12	0.32%	96.5903	%
Sc 361.383	34316.3	73.27	0.21%	97.5	%
Al 308.215†	6711.0	22.25	0.33%	[10]	mg/L
Ca 315.887†	351901.4	2670.56	0.76%	[100]	mg/L
Fe 273.955†	8218.0	0.24	0.00%	[10]	mg/L
Mg 279.077†	57739.0	65.91	0.11%	[100]	mg/L
Mn 257.610†	25487.8	9.02	0.04%	[1.0]	mg/L
K 766.490†	204983.1	5.06	0.00%	[100]	mg/L
Na 589.592†	818126.3	1869.51	0.23%	[100]	mg/L
Ti 334.940†	25530.3	52.46	0.21%	[1.0]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Al 308.215	3	Lin, Calc Int	0.1	670.5	0.00000	0.999996	
Ca 315.887	3	Lin, Calc Int	146.7	3519	0.00000	1.000000	
Fe 273.955	3	Lin, Calc Int	4.8	821.9	0.00000	0.999998	
Mg 279.077	3	Lin, Calc Int	44.7	577.6	0.00000	0.999995	
Mn 257.610	3	Lin, Calc Int	16.8	25490	0.00000	0.999997	
K 766.490	3	Lin, Calc Int	39.3	2049	0.00000	0.999999	
Na 589.592	3	Lin, Calc Int	-435.3	8173	0.00000	0.999990	
Ti 334.940	3	Lin, Calc Int	2.6	25520	0.00000	1.000000	

Sequence No.: 5
Sample ID: ICS3 V-273216
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 2/28/2018 3:40:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICS3 V-273216

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14447.2	98.9595	%	0.18891				0.19%
Sc 361.383	35296.8	100	%	0.2				0.23%
Al 308.215†	3343.8	4.98694	mg/L	0.004373	4.98694	mg/L	0.004373	0.09%
QC value within limits for Al 308.215 Recovery = 99.74%								
Ca 315.887†	178536.0	50.6983	mg/L	0.87801	50.6983	mg/L	0.87801	1.73%
QC value within limits for Ca 315.887 Recovery = 101.40%								
Fe 273.955†	4124.3	5.01227	mg/L	0.006696	5.01227	mg/L	0.006696	0.13%
QC value within limits for Fe 273.955 Recovery = 100.25%								
Mg 279.077†	29182.4	50.4475	mg/L	0.05079	50.4475	mg/L	0.05079	0.10%
QC value within limits for Mg 279.077 Recovery = 100.90%								
Mn 257.610†	12815.5	0.504890	mg/L	0.0008715	0.504890	mg/L	0.0008715	0.17%
QC value within limits for Mn 257.610 Recovery = 100.98%								
K 766.490†	102950.7	50.2303	mg/L	0.82851	50.2303	mg/L	0.82851	1.65%
QC value within limits for K 766.490 Recovery = 100.46%								
Na 589.592†	410397.2	50.2692	mg/L	0.78787	50.2692	mg/L	0.78787	1.57%
QC value within limits for Na 589.592 Recovery = 100.54%								
Ti 334.940†	12813.7	0.501932	mg/L	0.0010321	0.501932	mg/L	0.0010321	0.21%
QC value within limits for Ti 334.940 Recovery = 100.39%								

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICV V-273563
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/28/2018 3:43:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV V-273563

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	14285.5	97.8516	%	1.12281				1.15%
Sc 361.383	34978.9	99.4	%	1.12				1.13%
Al 308.215†	3326.1	4.96049	mg/L	0.017253	4.96049	mg/L	0.017253	0.35%
QC value within limits for Al 308.215 Recovery = 99.21%								
Ca 315.887†	179543.7	50.9847	mg/L	0.48990	50.9847	mg/L	0.48990	0.96%
QC value within limits for Ca 315.887 Recovery = 101.97%								
Fe 273.955†	4141.0	5.03259	mg/L	0.037576	5.03259	mg/L	0.037576	0.75%
QC value within limits for Fe 273.955 Recovery = 100.65%								
Mg 279.077†	29394.0	50.8139	mg/L	0.13376	50.8139	mg/L	0.13376	0.26%
QC value within limits for Mg 279.077 Recovery = 101.63%								
Mn 257.610†	12746.5	0.502198	mg/L	0.0020780	0.502198	mg/L	0.0020780	0.41%
QC value within limits for Mn 257.610 Recovery = 100.44%								
K 766.490†	102867.9	50.1898	mg/L	0.56313	50.1898	mg/L	0.56313	1.12%
QC value within limits for K 766.490 Recovery = 100.38%								
Na 589.592†	409763.1	50.1916	mg/L	0.33290	50.1916	mg/L	0.33290	0.66%
QC value within limits for Na 589.592 Recovery = 100.38%								
Ti 334.940†	12854.9	0.503549	mg/L	0.0010696	0.503549	mg/L	0.0010696	0.21%
QC value within limits for Ti 334.940 Recovery = 100.71%								

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: LLICV [aq] V-274418
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/28/2018 3:46:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLICV [aq] V-274418

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	14757.3	101.083	%	0.4369				0.43%
Sc 361.383	35865.5	102	%	0.0				0.02%
Al 308.215†	144.8	0.215719	mg/L	0.0026730	0.215719	mg/L	0.0026730	1.24%
QC value within limits for Al 308.215 Recovery = 107.86%								
Ca 315.887†	18154.6	5.11785	mg/L	0.001463	5.11785	mg/L	0.001463	0.03%
QC value within limits for Ca 315.887 Recovery = 102.36%								
Fe 273.955†	258.4	0.308567	mg/L	0.0010908	0.308567	mg/L	0.0010908	0.35%
QC value within limits for Fe 273.955 Recovery = 102.86%								
Mg 279.077†	2985.1	5.09072	mg/L	0.002668	5.09072	mg/L	0.002668	0.05%
QC value within limits for Mg 279.077 Recovery = 101.81%								
Mn 257.610†	1054.6	0.0408846	mg/L	0.00042853	0.0408846	mg/L	0.00042853	1.05%
QC value within limits for Mn 257.610 Recovery = 102.21%								
K 766.490†	10496.0	5.10381	mg/L	0.039722	5.10381	mg/L	0.039722	0.78%
QC value within limits for K 766.490 Recovery = 102.08%								
Na 589.592†	41449.0	5.12493	mg/L	0.002074	5.12493	mg/L	0.002074	0.04%
QC value within limits for Na 589.592 Recovery = 102.50%								
Ti 334.940†	1302.9	0.0509445	mg/L	0.00019495	0.0509445	mg/L	0.00019495	0.38%
QC value within limits for Ti 334.940 Recovery = 101.89%								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: ICB V-273721
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/28/2018 3:49:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB V-273721

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	14820.4	101.515	%	1.5487				1.53%
Sc 361.383	35667.6	101	%	1.1				1.08%
Al 308.215†	-3.4	-0.0053103	mg/L	0.00022475	-0.0053103	mg/L	0.00022475	4.23%
QC value within limits for Al 308.215 Recovery = Not calculated								
Ca 315.887†	6.6	-0.0398138	mg/L	0.00136050	-0.0398138	mg/L	0.00136050	3.42%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Fe 273.955†	-0.1	-0.0058951	mg/L	0.00292311	-0.0058951	mg/L	0.00292311	49.59%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	-12.6	-0.0992622	mg/L	0.01069417	-0.0992622	mg/L	0.01069417	10.77%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	2.7	-0.0005563	mg/L	0.00008184	-0.0005563	mg/L	0.00008184	14.71%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	125.7	0.0421503	mg/L	0.00682717	0.0421503	mg/L	0.00682717	16.20%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	177.0	0.0749117	mg/L	0.00155713	0.0749117	mg/L	0.00155713	2.08%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	4.9	0.0000882	mg/L	0.00016738	0.0000882	mg/L	0.00016738	189.76%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICSA V-273217
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/28/2018 3:53:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-273217

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	13096.3	89.7057	%	0.80676				0.90%
Sc 361.383	32062.9	91.1	%	0.98				1.07%
Al 308.215†	335173.5	499.892	mg/L	3.0871	499.892	mg/L	3.0871	0.62%
QC value within limits for Al 308.215 Recovery = 99.98%								
Ca 315.887†	1735171.3	493.094	mg/L	1.5682	493.094	mg/L	1.5682	0.32%
QC value within limits for Ca 315.887 Recovery = 98.62%								
Fe 273.955†	154627.0	188.131	mg/L	0.7402	188.131	mg/L	0.7402	0.39%
QC value within limits for Fe 273.955 Recovery = 94.07%								
Mg 279.077†	282173.5	488.464	mg/L	1.0002	488.464	mg/L	1.0002	0.20%
QC value within limits for Mg 279.077 Recovery = 97.69%								
Mn 257.610†	-1500.9	0.0479193	mg/L	0.00105726	0.0479193	mg/L	0.00105726	2.21%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	345.3	0.149354	mg/L	0.0356721	0.149354	mg/L	0.0356721	23.88%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	834.9	0.155418	mg/L	0.0132594	0.155418	mg/L	0.0132594	8.53%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-726.4	-0.0285644	mg/L	0.00065140	-0.0285644	mg/L	0.00065140	2.28%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 10 Autosampler Location: 8
Sample ID: ICSAB V-273219 Date Collected: 2/28/2018 3:56:56 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: ICSAB V-273219

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	13279.4	90.9599	%	0.02127				0.02%
Sc 361.383	32515.1	92.4	%	0.40				0.44%
Al 308.215†	332093.2	495.297	mg/L	6.4274	495.297	mg/L	6.4274	1.30%
QC value within limits for Al 308.215 Recovery = 99.06%								
Ca 315.887†	1719253.5	488.571	mg/L	5.7738	488.571	mg/L	5.7738	1.18%
QC value within limits for Ca 315.887 Recovery = 97.71%								
Fe 273.955†	154258.8	187.683	mg/L	2.7297	187.683	mg/L	2.7297	1.45%
QC value within limits for Fe 273.955 Recovery = 93.84%								
Mg 279.077†	280350.0	485.307	mg/L	6.1100	485.307	mg/L	6.1100	1.26%
QC value within limits for Mg 279.077 Recovery = 97.06%								
Mn 257.610†	11082.1	0.541232	mg/L	0.0034356	0.541232	mg/L	0.0034356	0.63%
QC value within limits for Mn 257.610 Recovery = 108.25%								
K 766.490†	319.5	0.136730	mg/L	0.0031530	0.136730	mg/L	0.0031530	2.31%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	903.6	0.163826	mg/L	0.0010979	0.163826	mg/L	0.0010979	0.67%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-730.5	-0.0287250	mg/L	0.00033115	-0.0287250	mg/L	0.00033115	1.15%

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: CCV V-273563
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/28/2018 4:00:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-273563

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14193.3	97.2200	%	0.45909				0.47%
Sc 361.383	34466.1	97.9	%	0.90				0.92%
Al 308.215†	3352.4	4.99977	mg/L	0.011305	4.99977	mg/L	0.011305	0.23%
QC value within limits for Al 308.215 Recovery = 100.00%								
Ca 315.887†	179702.5	51.0298	mg/L	0.76587	51.0298	mg/L	0.76587	1.50%
QC value within limits for Ca 315.887 Recovery = 102.06%								
Fe 273.955†	4165.9	5.06295	mg/L	0.013917	5.06295	mg/L	0.013917	0.27%
QC value within limits for Fe 273.955 Recovery = 101.26%								
Mg 279.077†	29543.6	51.0729	mg/L	0.10497	51.0729	mg/L	0.10497	0.21%
QC value within limits for Mg 279.077 Recovery = 102.15%								
Mn 257.610†	12796.3	0.504166	mg/L	0.0018448	0.504166	mg/L	0.0018448	0.37%
QC value within limits for Mn 257.610 Recovery = 100.83%								
K 766.490†	102809.7	50.1614	mg/L	0.37583	50.1614	mg/L	0.37583	0.75%
QC value within limits for K 766.490 Recovery = 100.32%								
Na 589.592†	414346.5	50.7524	mg/L	0.76040	50.7524	mg/L	0.76040	1.50%
QC value within limits for Na 589.592 Recovery = 101.50%								
Ti 334.940†	12886.4	0.504781	mg/L	0.0020422	0.504781	mg/L	0.0020422	0.40%
QC value within limits for Ti 334.940 Recovery = 100.96%								

All analyte(s) passed QC.

Sequence No.: 12
Sample ID: LLCCV [aq] V-274418
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/28/2018 4:03:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV [aq] V-274418

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14868.1	101.842	%	0.7726				0.76%
Sc 361.383	36112.5	103	%	0.3				0.29%
Al 308.215†	143.9	0.214353	mg/L	0.0024326	0.214353	mg/L	0.0024326	1.13%
QC value within limits for Al 308.215 Recovery = 107.18%								
Ca 315.887†	18160.5	5.11952	mg/L	0.047318	5.11952	mg/L	0.047318	0.92%
QC value within limits for Ca 315.887 Recovery = 102.39%								
Fe 273.955†	265.8	0.317629	mg/L	0.0023905	0.317629	mg/L	0.0023905	0.75%
QC value within limits for Fe 273.955 Recovery = 105.88%								
Mg 279.077†	2994.8	5.10766	mg/L	0.021537	5.10766	mg/L	0.021537	0.42%
QC value within limits for Mg 279.077 Recovery = 102.15%								
Mn 257.610†	1047.5	0.0406103	mg/L	0.00034152	0.0406103	mg/L	0.00034152	0.84%
QC value within limits for Mn 257.610 Recovery = 101.53%								
K 766.490†	10586.9	5.14818	mg/L	0.022282	5.14818	mg/L	0.022282	0.43%
QC value within limits for K 766.490 Recovery = 102.96%								
Na 589.592†	41582.6	5.14128	mg/L	0.040882	5.14128	mg/L	0.040882	0.80%
QC value within limits for Na 589.592 Recovery = 102.83%								
Ti 334.940†	1301.0	0.0508704	mg/L	0.00015516	0.0508704	mg/L	0.00015516	0.31%
QC value within limits for Ti 334.940 Recovery = 101.74%								

All analyte(s) passed QC.

Sequence No.: 13 Autosampler Location: 2
Sample ID: CCB Date Collected: 2/28/2018 4:07:10 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14845.1	101.685	%	0.5205				0.51%
Sc 361.383	35662.5	101	%	0.5				0.48%
Al 308.215†	-1.2	-0.0020500	mg/L	0.00174967	-0.0020500	mg/L	0.00174967	85.35%
QC value within limits for Al 308.215 Recovery = Not calculated								
Ca 315.887†	3.9	-0.0405891	mg/L	0.00309913	-0.0405891	mg/L	0.00309913	7.64%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Fe 273.955†	2.3	-0.0029506	mg/L	0.00346262	-0.0029506	mg/L	0.00346262	117.35%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	-8.2	-0.0915648	mg/L	0.00406653	-0.0915648	mg/L	0.00406653	4.44%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	0.0	-0.0006590	mg/L	0.00005045	-0.0006590	mg/L	0.00005045	7.66%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	71.6	0.0157534	mg/L	0.00272952	0.0157534	mg/L	0.00272952	17.33%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	271.7	0.0865056	mg/L	0.00283811	0.0865056	mg/L	0.00283811	3.28%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	12.9	0.0004030	mg/L	0.00016266	0.0004030	mg/L	0.00016266	40.36%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: MB 66498 (1)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 38
Date Collected: 2/28/2018 4:10:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MB 66498 (1)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14909.1	102.123	%	0.3052				0.30%
Sc 361.383	35952.9	102	%	0.2				0.20%
Al 308.215†	9.6	0.0140755	mg/L	0.01160591	0.0140755	mg/L	0.01160591	82.45%
Ca 315.887†	405.6	0.0735787	mg/L	0.00002249	0.0735787	mg/L	0.00002249	0.03%
Fe 273.955†	19.7	0.0181572	mg/L	0.00198342	0.0181572	mg/L	0.00198342	10.92%
Mg 279.077†	-2.3	-0.0814884	mg/L	0.00285867	-0.0814884	mg/L	0.00285867	3.51%
Mn 257.610†	7.4	-0.0003564	mg/L	0.00003823	-0.0003564	mg/L	0.00003823	10.73%
K 766.490†	38.5	-0.0004068	mg/L	0.01530706	-0.0004068	mg/L	0.01530706	>999.9%
Na 589.592†	339.0	0.0947352	mg/L	0.00550588	0.0947352	mg/L	0.00550588	5.81%
Ti 334.940†	10.5	0.0003081	mg/L	0.00002632	0.0003081	mg/L	0.00002632	8.54%

Sequence No.: 15
Sample ID: LCSW 66498
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 2/28/2018 4:14:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCSW 66498

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14332.3	98.1721	%	1.14375				1.17%
Sc 361.383	35044.6	99.6	%	0.93				0.93%
Al 308.215†	3486.8	5.20023	mg/L	0.014751	5.20023	mg/L	0.014751	0.28%
Ca 315.887†	187249.3	53.1746	mg/L	0.68919	53.1746	mg/L	0.68919	1.30%
Fe 273.955†	4319.6	5.24989	mg/L	0.034761	5.24989	mg/L	0.034761	0.66%
Mg 279.077†	30535.0	52.7894	mg/L	0.19742	52.7894	mg/L	0.19742	0.37%
Mn 257.610†	13336.6	0.525469	mg/L	0.0007379	0.525469	mg/L	0.0007379	0.14%
K 766.490†	107375.9	52.3902	mg/L	0.76520	52.3902	mg/L	0.76520	1.46%
Na 589.592†	427673.9	52.3832	mg/L	0.69894	52.3832	mg/L	0.69894	1.33%
Ti 334.940†	13305.0	0.521180	mg/L	0.0015071	0.521180	mg/L	0.0015071	0.29%

Sequence No.: 16
Sample ID: LCSW MR 66498
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 40
Date Collected: 2/28/2018 4:16:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCSW MR 66498

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14255.6	97.6465	%	0.02828				0.03%
Sc 361.383	34663.5	98.5	%	0.27				0.28%
Al 308.215†	3367.5	5.02220	mg/L	0.011658	5.02220	mg/L	0.011658	0.23%
Ca 315.887†	182351.7	51.7827	mg/L	0.10353	51.7827	mg/L	0.10353	0.20%
Fe 273.955†	4177.1	5.07657	mg/L	0.011751	5.07657	mg/L	0.011751	0.23%
Mg 279.077†	29547.9	51.0803	mg/L	0.07309	51.0803	mg/L	0.07309	0.14%
Mn 257.610†	12871.5	0.507126	mg/L	0.0004076	0.507126	mg/L	0.0004076	0.08%
K 766.490†	104576.6	51.0238	mg/L	0.48884	51.0238	mg/L	0.48884	0.96%
Na 589.592†	415955.7	50.9493	mg/L	0.00110	50.9493	mg/L	0.00110	0.00%
Ti 334.940†	12880.1	0.504536	mg/L	0.0010613	0.504536	mg/L	0.0010613	0.21%

Sequence No.: 17
Sample ID: AD02743-006
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 47
Date Collected: 2/28/2018 4:19:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02743-006

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	13747.3	94.1648	%	0.18084				0.19%
Sc 361.383	33553.0	95.3	%	0.08				0.08%
Al 308.215†	145.9	0.217378	mg/L	0.0043816	0.217378	mg/L	0.0043816	2.02%
Ca 315.887†	609021.4	173.042	mg/L	1.3721	173.042	mg/L	1.3721	0.79%
Fe 273.955†	15519.0	18.8764	mg/L	0.01540	18.8764	mg/L	0.01540	0.08%
Mg 279.077†	97532.9	168.786	mg/L	1.1554	168.786	mg/L	1.1554	0.68%
Mn 257.610†	36483.3	1.44117	mg/L	0.010831	1.44117	mg/L	0.010831	0.75%
K 766.490†	151563.9	73.9579	mg/L	0.78018	73.9579	mg/L	0.78018	1.05%
Na 589.592†	Saturated2							
Ti 334.940†	-248.3	-0.0098309	mg/L	0.00021315	-0.0098309	mg/L	0.00021315	2.17%

Sequence No.: 18
Sample ID: AD02743-007
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 48
Date Collected: 2/28/2018 4:24:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02743-007

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16276.8	111.492	%	0.9671				0.87%
Sc 361.383	39412.0	112	%	1.3				1.17%
Al 308.215†	16.6	0.0245766	mg/L	0.00475590	0.0245766	mg/L	0.00475590	19.35%
Ca 315.887†	516.9	0.105207	mg/L	0.0000714	0.105207	mg/L	0.0000714	0.07%
Fe 273.955†	28.5	0.0288669	mg/L	0.00234066	0.0288669	mg/L	0.00234066	8.11%
Mg 279.077†	7.9	-0.0638246	mg/L	0.00812293	-0.0638246	mg/L	0.00812293	12.73%
Mn 257.610†	11.0	-0.0002103	mg/L	0.00013986	-0.0002103	mg/L	0.00013986	66.51%
K 766.490†	172.3	0.0648911	mg/L	0.00786225	0.0648911	mg/L	0.00786225	12.12%
Na 589.592†	3543.2	0.486799	mg/L	0.0227983	0.486799	mg/L	0.0227983	4.68%
Ti 334.940†	17.9	0.0005986	mg/L	0.00045489	0.0005986	mg/L	0.00045489	75.99%

Sequence No.: 19
Sample ID: AD02743-009
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 49
Date Collected: 2/28/2018 4:27:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02743-009

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14354.7	98.3256	%	0.51282				0.52%
Sc 361.383	35161.9	99.9	%	0.62				0.62%
Al 308.215†	113.1	0.168421	mg/L	0.0008758	0.168421	mg/L	0.0008758	0.52%
Ca 315.887†	564781.6	160.469	mg/L	2.3939	160.469	mg/L	2.3939	1.49%
Fe 273.955†	15095.0	18.3606	mg/L	0.00285	18.3606	mg/L	0.00285	0.02%
Mg 279.077†	89141.8	154.258	mg/L	2.3001	154.258	mg/L	2.3001	1.49%
Mn 257.610†	34419.2	1.35992	mg/L	0.020415	1.35992	mg/L	0.020415	1.50%
K 766.490†	136543.4	66.6266	mg/L	1.15583	66.6266	mg/L	1.15583	1.73%
Na 589.592†	8256353.7	1010.30	mg/L	8.950	1010.30	mg/L	8.950	0.89%
Ti 334.940†	-223.2	-0.0088471	mg/L	0.00072469	-0.0088471	mg/L	0.00072469	8.19%

Sequence No.: 20
Sample ID: AD02743-006 2D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 64
Date Collected: 2/28/2018 4:32:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02743-006 2D

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15349.2	105.137	%	1.2479				1.19%
Sc 361.383	37672.9	107	%	1.5				1.37%
Al 308.215†	63.7	0.0947712	mg/L	0.00326704	0.0947712	mg/L	0.00326704	3.45%
Ca 315.887†	305023.1	86.6460	mg/L	0.21616	86.6460	mg/L	0.21616	0.25%
Fe 273.955†	7633.9	9.28248	mg/L	0.009286	9.28248	mg/L	0.009286	0.10%
Mg 279.077†	48934.9	84.6460	mg/L	0.09357	84.6460	mg/L	0.09357	0.11%
Mn 257.610†	17831.1	0.704067	mg/L	0.0006633	0.704067	mg/L	0.0006633	0.09%
K 766.490†	72244.6	35.2428	mg/L	0.18368	35.2428	mg/L	0.18368	0.52%
Na 589.592†	4488457.8	549.258	mg/L	2.0940	549.258	mg/L	2.0940	0.38%
Ti 334.940†	-114.9	-0.0046035	mg/L	0.00011963	-0.0046035	mg/L	0.00011963	2.60%

Sequence No.: 21
Sample ID: AD02743-009 2D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 65
Date Collected: 2/28/2018 4:37:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02743-009 2D

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15266.2	104.569	%	0.6520				0.62%
Sc 361.383	37419.7	106	%	0.9				0.88%
Al 308.215†	51.1	0.0759728	mg/L	0.00139803	0.0759728	mg/L	0.00139803	1.84%
Ca 315.887†	294613.3	83.6875	mg/L	0.79371	83.6875	mg/L	0.79371	0.95%
Fe 273.955†	7948.3	9.66498	mg/L	0.003097	9.66498	mg/L	0.003097	0.03%
Mg 279.077†	46526.6	80.4763	mg/L	0.70664	80.4763	mg/L	0.70664	0.88%
Mn 257.610†	18002.5	0.711008	mg/L	0.0010882	0.711008	mg/L	0.0010882	0.15%
K 766.490†	68727.5	33.5262	mg/L	0.42071	33.5262	mg/L	0.42071	1.25%
Na 589.592†	4305566.7	526.880	mg/L	2.3083	526.880	mg/L	2.3083	0.44%
Ti 334.940†	-120.6	-0.0048292	mg/L	0.00039659	-0.0048292	mg/L	0.00039659	8.21%

Sequence No.: 22
Sample ID: ICSA V-273217
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/28/2018 4:41:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-273217

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	14549.2	99.6576	%	1.85743				1.86%
Sc 361.383	35683.1	101	%	2.7				2.64%
Al 308.215†	327212.7	488.018	mg/L	9.5093	488.018	mg/L	9.5093	1.95%
QC value within limits for Al 308.215 Recovery = 97.60%								
Ca 315.887†	1712443.7	486.635	mg/L	8.4402	486.635	mg/L	8.4402	1.73%
QC value within limits for Ca 315.887 Recovery = 97.33%								
Fe 273.955†	153003.8	186.156	mg/L	3.0413	186.156	mg/L	3.0413	1.63%
QC value within limits for Fe 273.955 Recovery = 93.08%								
Mg 279.077†	279964.5	484.639	mg/L	7.9449	484.639	mg/L	7.9449	1.64%
QC value within limits for Mg 279.077 Recovery = 96.93%								
Mn 257.610†	-1499.2	0.0468605	mg/L	0.00191391	0.0468605	mg/L	0.00191391	4.08%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	578.5	0.263176	mg/L	0.0162763	0.263176	mg/L	0.0162763	6.18%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	4215.4	0.569048	mg/L	0.0045754	0.569048	mg/L	0.0045754	0.80%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-701.9	-0.0276017	mg/L	0.00008096	-0.0276017	mg/L	0.00008096	0.29%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 23
Sample ID: ICSAB V-273219
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/28/2018 4:45:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-273219

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	12865.7	88.1260	%	0.53908				0.61%
Sc 361.383	31455.9	89.4	%	0.99				1.11%
Al 308.215†	329064.6	490.781	mg/L	5.8938	490.781	mg/L	5.8938	1.20%
QC value within limits for Al 308.215 Recovery = 98.16%								
Ca 315.887†	1696353.3	482.062	mg/L	6.9331	482.062	mg/L	6.9331	1.44%
QC value within limits for Ca 315.887 Recovery = 96.41%								
Fe 273.955†	151985.5	184.917	mg/L	2.2573	184.917	mg/L	2.2573	1.22%
QC value within limits for Fe 273.955 Recovery = 92.46%								
Mg 279.077†	275934.9	477.663	mg/L	7.5276	477.663	mg/L	7.5276	1.58%
QC value within limits for Mg 279.077 Recovery = 95.53%								
Mn 257.610†	10944.4	0.534248	mg/L	0.0012335	0.534248	mg/L	0.0012335	0.23%
QC value within limits for Mn 257.610 Recovery = 106.85%								
K 766.490†	389.9	0.171135	mg/L	0.0169065	0.171135	mg/L	0.0169065	9.88%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	2646.3	0.377054	mg/L	0.0113832	0.377054	mg/L	0.0113832	3.02%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-718.1	-0.0282394	mg/L	0.00092005	-0.0282394	mg/L	0.00092005	3.26%

All analyte(s) passed QC.

Sequence No.: 24
Sample ID: CCV V-273563
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/28/2018 4:49:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-273563

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	13633.1	93.3825	%	0.23566				0.25%
Sc 361.383	33234.9	94.4	%	0.04				0.04%
Al 308.215†	3315.9	4.94532	mg/L	0.017447	4.94532	mg/L	0.017447	0.35%
QC value within limits for Al 308.215 Recovery = 98.91%								
Ca 315.887†	177690.3	50.4579	mg/L	0.43270	50.4579	mg/L	0.43270	0.86%
QC value within limits for Ca 315.887 Recovery = 100.92%								
Fe 273.955†	4114.5	5.00034	mg/L	0.013348	5.00034	mg/L	0.013348	0.27%
QC value within limits for Fe 273.955 Recovery = 100.01%								
Mg 279.077†	29060.3	50.2361	mg/L	0.20552	50.2361	mg/L	0.20552	0.41%
QC value within limits for Mg 279.077 Recovery = 100.47%								
Mn 257.610†	12657.4	0.498682	mg/L	0.0014212	0.498682	mg/L	0.0014212	0.28%
QC value within limits for Mn 257.610 Recovery = 99.74%								
K 766.490†	103234.7	50.3688	mg/L	0.16004	50.3688	mg/L	0.16004	0.32%
QC value within limits for K 766.490 Recovery = 100.74%								
Na 589.592†	412512.9	50.5281	mg/L	0.04809	50.5281	mg/L	0.04809	0.10%
QC value within limits for Na 589.592 Recovery = 101.06%								
Ti 334.940†	12790.5	0.501024	mg/L	0.0015708	0.501024	mg/L	0.0015708	0.31%
QC value within limits for Ti 334.940 Recovery = 100.20%								

All analyte(s) passed QC.

Sequence No.: 25
Sample ID: LLCCV [aq] V-274418
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/28/2018 4:52:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV [aq] V-274418

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14042.6	96.1880	%	1.20497				1.25%
Sc 361.383	33944.7	96.4	%	1.40				1.45%
Al 308.215†	156.0	0.232518	mg/L	0.0042733	0.232518	mg/L	0.0042733	1.84%
QC value within limits for Al 308.215 Recovery = 116.26%								
Ca 315.887†	18080.3	5.09675	mg/L	0.036196	5.09675	mg/L	0.036196	0.71%
QC value within limits for Ca 315.887 Recovery = 101.93%								
Fe 273.955†	260.9	0.311641	mg/L	0.0025190	0.311641	mg/L	0.0025190	0.81%
QC value within limits for Fe 273.955 Recovery = 103.88%								
Mg 279.077†	2952.3	5.03394	mg/L	0.095018	5.03394	mg/L	0.095018	1.89%
QC value within limits for Mg 279.077 Recovery = 100.68%								
Mn 257.610†	1038.6	0.0402615	mg/L	0.00093271	0.0402615	mg/L	0.00093271	2.32%
QC value within limits for Mn 257.610 Recovery = 100.65%								
K 766.490†	10664.8	5.18622	mg/L	0.000075	5.18622	mg/L	0.000075	0.00%
QC value within limits for K 766.490 Recovery = 103.72%								
Na 589.592†	42945.3	5.30802	mg/L	0.029724	5.30802	mg/L	0.029724	0.56%
QC value within limits for Na 589.592 Recovery = 106.16%								
Ti 334.940†	1300.6	0.0508547	mg/L	0.00059859	0.0508547	mg/L	0.00059859	1.18%
QC value within limits for Ti 334.940 Recovery = 101.71%								

All analyte(s) passed QC.

Sequence No.: 26 Autosampler Location: 2
Sample ID: CCB Date Collected: 2/28/2018 4:55:40 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	14922.1	102.212	%	3.8996				3.82%
Sc 361.383	35809.5	102	%	3.9				3.86%
Al 308.215†	8.4	0.0122772	mg/L	0.00878032	0.0122772	mg/L	0.00878032	71.52%
QC value within limits for Al 308.215 Recovery = Not calculated								
Ca 315.887†	22.6	-0.0352672	mg/L	0.00125151	-0.0352672	mg/L	0.00125151	3.55%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Fe 273.955†	1.7	-0.0037254	mg/L	0.00038502	-0.0037254	mg/L	0.00038502	10.34%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	-7.0	-0.0895373	mg/L	0.00185798	-0.0895373	mg/L	0.00185798	2.08%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	0.3	-0.0006489	mg/L	0.00030340	-0.0006489	mg/L	0.00030340	46.76%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	134.4	0.0463853	mg/L	0.00503404	0.0463853	mg/L	0.00503404	10.85%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	1005.5	0.176292	mg/L	0.0025325	0.176292	mg/L	0.0025325	1.44%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	28.2	0.0010005	mg/L	0.00026519	0.0010005	mg/L	0.00026519	26.51%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 27
Sample ID: AD02671-003
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 41
Date Collected: 2/28/2018 4:59:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02671-003

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	13898.8	95.2026	%	0.80670				0.85%
Sc 361.383	33881.6	96.2	%	0.73				0.76%
Al 308.215†	115.5	0.171992	mg/L	0.0083562	0.171992	mg/L	0.0083562	4.86%
Ca 315.887†	48769.7	13.8187	mg/L	0.03393	13.8187	mg/L	0.03393	0.25%
Fe 273.955†	959.1	1.16118	mg/L	0.007114	1.16118	mg/L	0.007114	0.61%
Mg 279.077†	1226.3	2.04571	mg/L	0.033640	2.04571	mg/L	0.033640	1.64%
Mn 257.610†	9542.6	0.374315	mg/L	0.0021673	0.374315	mg/L	0.0021673	0.58%
K 766.490†	6053.7	2.93558	mg/L	0.001257	2.93558	mg/L	0.001257	0.04%
Na 589.592†	832395.0	101.905	mg/L	0.1987	101.905	mg/L	0.1987	0.20%
Ti 334.940†	98.6	0.0037593	mg/L	0.00032252	0.0037593	mg/L	0.00032252	8.58%

Sequence No.: 28
Sample ID: AD02671-003 MR
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 42
Date Collected: 2/28/2018 5:02:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02671-003 MR

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	13950.7	95.5583	%	0.13610				0.14%
Sc 361.383	34071.8	96.8	%	0.25				0.26%
Al 308.215†	102.4	0.152527	mg/L	0.0082389	0.152527	mg/L	0.0082389	5.40%
Ca 315.887†	46126.9	13.0676	mg/L	0.06231	13.0676	mg/L	0.06231	0.48%
Fe 273.955†	772.3	0.933842	mg/L	0.0082123	0.933842	mg/L	0.0082123	0.88%
Mg 279.077†	1184.5	1.97337	mg/L	0.011867	1.97337	mg/L	0.011867	0.60%
Mn 257.610†	8469.9	0.332106	mg/L	0.0010288	0.332106	mg/L	0.0010288	0.31%
K 766.490†	5692.7	2.75937	mg/L	0.018450	2.75937	mg/L	0.018450	0.67%
Na 589.592†	779431.2	95.4240	mg/L	1.35215	95.4240	mg/L	1.35215	1.42%
Ti 334.940†	65.0	0.0024428	mg/L	0.00039842	0.0024428	mg/L	0.00039842	16.31%

Sequence No.: 29
Sample ID: AD02671-003 MS 1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 43
Date Collected: 2/28/2018 5:06:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02671-003 MS 1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	14320.7	98.0924	%	0.24772				0.25%
Sc 361.383	34935.2	99.2	%	0.14				0.14%
Al 308.215†	3382.8	5.04506	mg/L	0.027286	5.04506	mg/L	0.027286	0.54%
Ca 315.887†	220508.1	62.6268	mg/L	0.00166	62.6268	mg/L	0.00166	0.00%
Fe 273.955†	4807.7	5.84387	mg/L	0.024664	5.84387	mg/L	0.024664	0.42%
Mg 279.077†	30059.5	51.9661	mg/L	0.16754	51.9661	mg/L	0.16754	0.32%
Mn 257.610†	20294.5	0.798727	mg/L	0.0008421	0.798727	mg/L	0.0008421	0.11%
K 766.490†	107888.2	52.6402	mg/L	0.27849	52.6402	mg/L	0.27849	0.53%
Na 589.592†	1160041.5	141.995	mg/L	1.0006	141.995	mg/L	1.0006	0.70%
Ti 334.940†	12732.6	0.498756	mg/L	0.0006016	0.498756	mg/L	0.0006016	0.12%

Sequence No.: 30
Sample ID: AD02671-003 MS 2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 44
Date Collected: 2/28/2018 5:09:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02671-003 MS 2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16105.3	110.317	%	0.4616				0.42%
Sc 361.383	39125.6	111	%	0.1				0.11%
Al 308.215†	3386.6	5.05075	mg/L	0.010622	5.05075	mg/L	0.010622	0.21%
Ca 315.887†	226804.9	64.4163	mg/L	0.60210	64.4163	mg/L	0.60210	0.93%
Fe 273.955†	4927.9	5.99002	mg/L	0.021961	5.99002	mg/L	0.021961	0.37%
Mg 279.077†	30861.7	53.3550	mg/L	0.19403	53.3550	mg/L	0.19403	0.36%
Mn 257.610†	20969.7	0.825298	mg/L	0.0020772	0.825298	mg/L	0.0020772	0.25%
K 766.490†	110218.4	53.7776	mg/L	0.58590	53.7776	mg/L	0.58590	1.09%
Na 589.592†	1193502.1	146.089	mg/L	1.4565	146.089	mg/L	1.4565	1.00%
Ti 334.940†	12904.4	0.505486	mg/L	0.0000023	0.505486	mg/L	0.0000023	0.00%

Sequence No.: 31
Sample ID: AD02671-003 PS
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 45
Date Collected: 2/28/2018 5:12:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02671-003 PS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16237.7	111.223	%	0.6238				0.56%
Sc 361.383	39698.8	113	%	0.4				0.34%
Al 308.215†	3333.5	4.97157	mg/L	0.009608	4.97157	mg/L	0.009608	0.19%
Ca 315.887†	220086.0	62.5068	mg/L	0.49127	62.5068	mg/L	0.49127	0.79%
Fe 273.955†	5039.2	6.12548	mg/L	0.025834	6.12548	mg/L	0.025834	0.42%
Mg 279.077†	29696.7	51.3380	mg/L	0.13411	51.3380	mg/L	0.13411	0.26%
Mn 257.610†	21807.5	0.858237	mg/L	0.0021728	0.858237	mg/L	0.0021728	0.25%
K 766.490†	105585.8	51.5164	mg/L	0.63582	51.5164	mg/L	0.63582	1.23%
Na 589.592†	1187858.0	145.399	mg/L	0.8805	145.399	mg/L	0.8805	0.61%
Ti 334.940†	12589.5	0.493150	mg/L	0.0018845	0.493150	mg/L	0.0018845	0.38%

Sequence No.: 32
Sample ID: AD02671-003 SD
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 46
Date Collected: 2/28/2018 5:15:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02671-003 SD

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15858.2	108.624	%	0.7862				0.72%
Sc 361.383	38805.6	110	%	0.9				0.81%
Al 308.215†	17.6	0.0260472	mg/L	0.00048824	0.0260472	mg/L	0.00048824	1.87%
Ca 315.887†	10168.6	2.84823	mg/L	0.025414	2.84823	mg/L	0.025414	0.89%
Fe 273.955†	207.6	0.246786	mg/L	0.0011703	0.246786	mg/L	0.0011703	0.47%
Mg 279.077†	260.2	0.372966	mg/L	0.0101239	0.372966	mg/L	0.0101239	2.71%
Mn 257.610†	1975.4	0.0769686	mg/L	0.00091071	0.0769686	mg/L	0.00091071	1.18%
K 766.490†	1231.0	0.581631	mg/L	0.0019020	0.581631	mg/L	0.0019020	0.33%
Na 589.592†	169688.0	20.8162	mg/L	0.05595	20.8162	mg/L	0.05595	0.27%
Ti 334.940†	27.2	0.0009639	mg/L	0.00006981	0.0009639	mg/L	0.00006981	7.24%

Sequence No.: 33
Sample ID: CCV V-273563
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/28/2018 5:18:36 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-273563

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15338.0	105.061	%	0.6496				0.62%
Sc 361.383	37397.5	106	%	1.2				1.15%
Al 308.215†	3233.0	4.82166	mg/L	0.019393	4.82166	mg/L	0.019393	0.40%
QC value within limits for Al 308.215 Recovery = 96.43%								
Ca 315.887†	177983.4	50.5412	mg/L	0.76284	50.5412	mg/L	0.76284	1.51%
QC value within limits for Ca 315.887 Recovery = 101.08%								
Fe 273.955†	4054.2	4.92697	mg/L	0.024182	4.92697	mg/L	0.024182	0.49%
QC value within limits for Fe 273.955 Recovery = 98.54%								
Mg 279.077†	29005.5	50.1412	mg/L	0.27511	50.1412	mg/L	0.27511	0.55%
QC value within limits for Mg 279.077 Recovery = 100.28%								
Mn 257.610†	12495.4	0.492285	mg/L	0.0032746	0.492285	mg/L	0.0032746	0.67%
QC value within limits for Mn 257.610 Recovery = 98.46%								
K 766.490†	102317.2	49.9210	mg/L	0.51217	49.9210	mg/L	0.51217	1.03%
QC value within limits for K 766.490 Recovery = 99.84%								
Na 589.592†	408231.0	50.0041	mg/L	0.82537	50.0041	mg/L	0.82537	1.65%
QC value within limits for Na 589.592 Recovery = 100.01%								
Ti 334.940†	12600.4	0.493574	mg/L	0.0042915	0.493574	mg/L	0.0042915	0.87%
QC value within limits for Ti 334.940 Recovery = 98.71%								

All analyte(s) passed QC.

Sequence No.: 34 Autosampler Location: 5
Sample ID: LLCCV [aq] V-274418 Date Collected: 2/28/2018 5:21:30 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: LLCCV [aq] V-274418

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15773.4	108.043	%	0.2121				0.20%
Sc 361.383	38553.6	110	%	0.4				0.40%
Al 308.215†	141.2	0.210447	mg/L	0.0148314	0.210447	mg/L	0.0148314	7.05%
QC value within limits for Al 308.215 Recovery = 105.22%								
Ca 315.887†	18224.1	5.13760	mg/L	0.005899	5.13760	mg/L	0.005899	0.11%
QC value within limits for Ca 315.887 Recovery = 102.75%								
Fe 273.955†	259.7	0.310150	mg/L	0.0054566	0.310150	mg/L	0.0054566	1.76%
QC value within limits for Fe 273.955 Recovery = 103.38%								
Mg 279.077†	3040.3	5.18636	mg/L	0.028384	5.18636	mg/L	0.028384	0.55%
QC value within limits for Mg 279.077 Recovery = 103.73%								
Mn 257.610†	1052.1	0.0407893	mg/L	0.00024406	0.0407893	mg/L	0.00024406	0.60%
QC value within limits for Mn 257.610 Recovery = 101.97%								
K 766.490†	10437.8	5.07539	mg/L	0.009351	5.07539	mg/L	0.009351	0.18%
QC value within limits for K 766.490 Recovery = 101.51%								
Na 589.592†	42449.5	5.24735	mg/L	0.017920	5.24735	mg/L	0.017920	0.34%
QC value within limits for Na 589.592 Recovery = 104.95%								
Ti 334.940†	1313.3	0.0513513	mg/L	0.00058529	0.0513513	mg/L	0.00058529	1.14%
QC value within limits for Ti 334.940 Recovery = 102.70%								

All analyte(s) passed QC.

Sequence No.: 35
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 2/28/2018 5:24:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	16222.2	111.117	%	0.3313				0.30%
Sc 361.383	39088.8	111	%	0.7				0.59%
Al 308.215†	-5.5	-0.0084470	mg/L	0.00036536	-0.0084470	mg/L	0.00036536	4.33%
QC value within limits for Al 308.215 Recovery = Not calculated								
Ca 315.887†	-2.6	-0.0424304	mg/L	0.00028404	-0.0424304	mg/L	0.00028404	0.67%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Fe 273.955†	6.1	0.0015770	mg/L	0.00643115	0.0015770	mg/L	0.00643115	407.81%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	-2.0	-0.0809011	mg/L	0.01129731	-0.0809011	mg/L	0.01129731	13.96%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-6.8	-0.0009237	mg/L	0.00026741	-0.0009237	mg/L	0.00026741	28.95%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	32.5	-0.0033432	mg/L	0.03894144	-0.0033432	mg/L	0.03894144	>999.9%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	624.6	0.129680	mg/L	0.0031260	0.129680	mg/L	0.0031260	2.41%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	8.1	0.0002133	mg/L	0.00027041	0.0002133	mg/L	0.00027041	126.78%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 36
Sample ID: AD02771-001
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 50
Date Collected: 2/28/2018 5:28:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02771-001

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16314.4	111.749	%	0.1289				0.12%
Sc 361.383	39973.3	114	%	0.5				0.45%
Al 308.215†	6.4	0.0093546	mg/L	0.00068395	0.0093546	mg/L	0.00068395	7.31%
Ca 315.887†	99043.9	28.1066	mg/L	0.12299	28.1066	mg/L	0.12299	0.44%
Fe 273.955†	719.1	0.869129	mg/L	0.0026383	0.869129	mg/L	0.0026383	0.30%
Mg 279.077†	2831.7	4.82517	mg/L	0.034235	4.82517	mg/L	0.034235	0.71%
Mn 257.610†	16175.0	0.634299	mg/L	0.0016866	0.634299	mg/L	0.0016866	0.27%
K 766.490†	3809.0	1.83995	mg/L	0.023797	1.83995	mg/L	0.023797	1.29%
Na 589.592†	178493.1	21.8936	mg/L	0.04624	21.8936	mg/L	0.04624	0.21%
Ti 334.940†	227.8	0.0088221	mg/L	0.00097422	0.0088221	mg/L	0.00097422	11.04%

Sequence No.: 37
Sample ID: AD02771-002
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 51
Date Collected: 2/28/2018 5:31:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02771-002

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16472.1	112.829	%	0.6038				0.54%
Sc 361.383	40178.7	114	%	0.0				0.01%
Al 308.215†	328.8	0.490125	mg/L	0.0077272	0.490125	mg/L	0.0077272	1.58%
Ca 315.887†	101942.4	28.9304	mg/L	0.04960	28.9304	mg/L	0.04960	0.17%
Fe 273.955†	1846.8	2.24125	mg/L	0.001610	2.24125	mg/L	0.001610	0.07%
Mg 279.077†	2672.7	4.54993	mg/L	0.046633	4.54993	mg/L	0.046633	1.02%
Mn 257.610†	9902.7	0.389056	mg/L	0.0026246	0.389056	mg/L	0.0026246	0.67%
K 766.490†	4201.2	2.03137	mg/L	0.039331	2.03137	mg/L	0.039331	1.94%
Na 589.592†	92866.3	11.4163	mg/L	0.03623	11.4163	mg/L	0.03623	0.32%
Ti 334.940†	373.4	0.0145252	mg/L	0.00064458	0.0145252	mg/L	0.00064458	4.44%

Sequence No.: 38
Sample ID: AD02671-001
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 52
Date Collected: 2/28/2018 5:35:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02671-001

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	18277.9	125.199	%	0.2723				0.22%
Sc 361.383	39328.5	112	%	0.0				0.03%
Al 308.215†	35555.5	53.0288	mg/L	0.01678	53.0288	mg/L	0.01678	0.03%
Ca 315.887†	165534.8	47.0033	mg/L	0.07504	47.0033	mg/L	0.07504	0.16%
Fe 273.955†	41026.4	49.9117	mg/L	0.09546	49.9117	mg/L	0.09546	0.19%
Mg 279.077†	9900.5	17.0637	mg/L	0.02759	17.0637	mg/L	0.02759	0.16%
Mn 257.610†	20558.8	0.834265	mg/L	0.0006048	0.834265	mg/L	0.0006048	0.07%
K 766.490†	55464.1	27.0524	mg/L	0.18111	27.0524	mg/L	0.18111	0.67%
Na 589.592†	850469.1	104.116	mg/L	0.0048	104.116	mg/L	0.0048	0.00%
Ti 334.940†	7008.0	0.274468	mg/L	0.0006690	0.274468	mg/L	0.0006690	0.24%

Sequence No.: 39
Sample ID: AD02671-002
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 53
Date Collected: 2/28/2018 5:38:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02671-002

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16100.1	110.281	%	0.1306				0.12%
Sc 361.383	39761.5	113	%	0.3				0.27%
Al 308.215†	1484.2	2.21338	mg/L	0.018415	2.21338	mg/L	0.018415	0.83%
Ca 315.887†	84587.9	23.9982	mg/L	0.09008	23.9982	mg/L	0.09008	0.38%
Fe 273.955†	6705.0	8.15222	mg/L	0.008096	8.15222	mg/L	0.008096	0.10%
Mg 279.077†	2298.9	3.90277	mg/L	0.008272	3.90277	mg/L	0.008272	0.21%
Mn 257.610†	5524.8	0.220706	mg/L	0.0004162	0.220706	mg/L	0.0004162	0.19%
K 766.490†	9839.6	4.78345	mg/L	0.045200	4.78345	mg/L	0.045200	0.94%
Na 589.592†	664018.4	81.3021	mg/L	0.62905	81.3021	mg/L	0.62905	0.77%
Ti 334.940†	1619.2	0.0633368	mg/L	0.00005751	0.0633368	mg/L	0.00005751	0.09%

Sequence No.: 40
Sample ID: AD02671-004
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 54
Date Collected: 2/28/2018 5:41:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02671-004

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	15659.0	107.259	%	0.1673				0.16%
Sc 361.383	38393.0	109	%	0.0				0.02%
Al 308.215†	33.9	0.0503751	mg/L	0.00267340	0.0503751	mg/L	0.00267340	5.31%
Ca 315.887†	180016.2	51.1190	mg/L	0.18187	51.1190	mg/L	0.18187	0.36%
Fe 273.955†	34582.1	42.0708	mg/L	0.11352	42.0708	mg/L	0.11352	0.27%
Mg 279.077†	5388.9	9.25270	mg/L	0.029893	9.25270	mg/L	0.029893	0.32%
Mn 257.610†	44336.8	1.76247	mg/L	0.008629	1.76247	mg/L	0.008629	0.49%
K 766.490†	24124.2	11.7556	mg/L	0.00126	11.7556	mg/L	0.00126	0.01%
Na 589.592†	1728527.6	211.555	mg/L	0.4388	211.555	mg/L	0.4388	0.21%
Ti 334.940†	-69.9	-0.0028416	mg/L	0.00013880	-0.0028416	mg/L	0.00013880	4.88%

Sequence No.: 41
Sample ID: AD02671-005
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 55
Date Collected: 2/28/2018 5:45:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02671-005

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15881.9	108.786	%	0.0254				0.02%
Sc 361.383	39337.9	112	%	0.3				0.26%
Al 308.215†	169.3	0.252336	mg/L	0.0013035	0.252336	mg/L	0.0013035	0.52%
Ca 315.887†	120015.7	34.0668	mg/L	0.05882	34.0668	mg/L	0.05882	0.17%
Fe 273.955†	18614.9	22.6433	mg/L	0.06781	22.6433	mg/L	0.06781	0.30%
Mg 279.077†	2172.8	3.68447	mg/L	0.019054	3.68447	mg/L	0.019054	0.52%
Mn 257.610†	7522.5	0.307346	mg/L	0.0010405	0.307346	mg/L	0.0010405	0.34%
K 766.490†	24807.4	12.0891	mg/L	0.01155	12.0891	mg/L	0.01155	0.10%
Na 589.592†	1057203.7	129.412	mg/L	0.5055	129.412	mg/L	0.5055	0.39%
Ti 334.940†	145.8	0.0056099	mg/L	0.00024261	0.0056099	mg/L	0.00024261	4.32%

Sequence No.: 42
Sample ID: AD02799-002
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 56
Date Collected: 2/28/2018 5:48:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02799-002

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	12942.5	88.6521	%	0.42120				0.48%
Sc 361.383	31402.0	89.2	%	0.65				0.73%
Al 308.215†	724.0	1.07962	mg/L	0.003554	1.07962	mg/L	0.003554	0.33%
Ca 315.887†	577207.2	164.001	mg/L	3.8958	164.001	mg/L	3.8958	2.38%
Fe 273.955†	3227.1	3.92067	mg/L	0.000687	3.92067	mg/L	0.000687	0.02%
Mg 279.077†	81442.9	140.929	mg/L	3.2688	140.929	mg/L	3.2688	2.32%
Mn 257.610†	7331.8	0.289170	mg/L	0.0001102	0.289170	mg/L	0.0001102	0.04%
K 766.490†	69773.1	34.0365	mg/L	1.04203	34.0365	mg/L	1.04203	3.06%
Na 589.592†	9578268.3	1172.04	mg/L	28.056	1172.04	mg/L	28.056	2.39%
Ti 334.940†	1354.0	0.0529475	mg/L	0.00432018	0.0529475	mg/L	0.00432018	8.16%

Sequence No.: 43
Sample ID: ICSA V-273217
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/28/2018 5:53:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-273217

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	12523.7	85.7836	%	0.08533				0.10%
Sc 361.383	30510.9	86.7	%	0.22				0.25%
Al 308.215†	334357.2	498.674	mg/L	2.8895	498.674	mg/L	2.8895	0.58%
QC value within limits for Al 308.215 Recovery = 99.73%								
Ca 315.887†	1720106.6	488.813	mg/L	1.7324	488.813	mg/L	1.7324	0.35%
QC value within limits for Ca 315.887 Recovery = 97.76%								
Fe 273.955†	153911.4	187.261	mg/L	0.7109	187.261	mg/L	0.7109	0.38%
QC value within limits for Fe 273.955 Recovery = 93.63%								
Mg 279.077†	279733.0	484.238	mg/L	1.2871	484.238	mg/L	1.2871	0.27%
QC value within limits for Mg 279.077 Recovery = 96.85%								
Mn 257.610†	-1495.9	0.0476204	mg/L	0.00113756	0.0476204	mg/L	0.00113756	2.39%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	572.5	0.260248	mg/L	0.0319598	0.260248	mg/L	0.0319598	12.28%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	4411.1	0.593003	mg/L	0.0287253	0.593003	mg/L	0.0287253	4.84%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-734.6	-0.0288828	mg/L	0.00214063	-0.0288828	mg/L	0.00214063	7.41%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 44
Sample ID: ICSAB V-273219
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/28/2018 5:57:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-273219

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	12424.4	85.1033	%	0.60551				0.71%
Sc 361.383	30069.4	85.4	%	0.97				1.13%
Al 308.215†	337840.3	503.869	mg/L	1.6279	503.869	mg/L	1.6279	0.32%
QC value within limits for Al 308.215 Recovery = 100.77%								
Ca 315.887†	1734767.8	492.980	mg/L	0.1882	492.980	mg/L	0.1882	0.04%
QC value within limits for Ca 315.887 Recovery = 98.60%								
Fe 273.955†	155796.0	189.554	mg/L	0.3701	189.554	mg/L	0.3701	0.20%
QC value within limits for Fe 273.955 Recovery = 94.78%								
Mg 279.077†	281962.1	488.098	mg/L	0.2384	488.098	mg/L	0.2384	0.05%
QC value within limits for Mg 279.077 Recovery = 97.62%								
Mn 257.610†	11034.9	0.540446	mg/L	0.0018827	0.540446	mg/L	0.0018827	0.35%
QC value within limits for Mn 257.610 Recovery = 108.09%								
K 766.490†	477.2	0.213724	mg/L	0.0221870	0.213724	mg/L	0.0221870	10.38%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	2813.7	0.397543	mg/L	0.0024093	0.397543	mg/L	0.0024093	0.61%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-727.5	-0.0286071	mg/L	0.00059116	-0.0286071	mg/L	0.00059116	2.07%

All analyte(s) passed QC.

Sequence No.: 45
Sample ID: CCV V-273563
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/28/2018 6:01:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-273563

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	13115.6	89.8381	%	0.07930				0.09%
Sc 361.383	31625.9	89.8	%	0.25				0.28%
Al 308.215†	3347.3	4.99204	mg/L	0.003983	4.99204	mg/L	0.003983	0.08%
QC value within limits for Al 308.215 Recovery = 99.84%								
Ca 315.887†	175816.9	49.9255	mg/L	0.07342	49.9255	mg/L	0.07342	0.15%
QC value within limits for Ca 315.887 Recovery = 99.85%								
Fe 273.955†	4081.3	4.95992	mg/L	0.009509	4.95992	mg/L	0.009509	0.19%
QC value within limits for Fe 273.955 Recovery = 99.20%								
Mg 279.077†	28972.5	50.0841	mg/L	0.07430	50.0841	mg/L	0.07430	0.15%
QC value within limits for Mg 279.077 Recovery = 100.17%								
Mn 257.610†	12622.9	0.497306	mg/L	0.0003944	0.497306	mg/L	0.0003944	0.08%
QC value within limits for Mn 257.610 Recovery = 99.46%								
K 766.490†	104136.0	50.8088	mg/L	0.19044	50.8088	mg/L	0.19044	0.37%
QC value within limits for K 766.490 Recovery = 101.62%								
Na 589.592†	414512.7	50.7728	mg/L	0.01345	50.7728	mg/L	0.01345	0.03%
QC value within limits for Na 589.592 Recovery = 101.55%								
Ti 334.940†	12799.6	0.501381	mg/L	0.0007164	0.501381	mg/L	0.0007164	0.14%
QC value within limits for Ti 334.940 Recovery = 100.28%								

All analyte(s) passed QC.

Sequence No.: 46
Sample ID: LLCCV [aq] V-274418
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/28/2018 6:03:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV [aq] V-274418

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	13840.7	94.8048	%	0.70168				0.74%
Sc 361.383	33439.1	95.0	%	0.11				0.11%
Al 308.215†	147.4	0.219622	mg/L	0.0006452	0.219622	mg/L	0.0006452	0.29%
QC value within limits for Al 308.215 Recovery = 109.81%								
Ca 315.887†	18036.2	5.08422	mg/L	0.021739	5.08422	mg/L	0.021739	0.43%
QC value within limits for Ca 315.887 Recovery = 101.68%								
Fe 273.955†	255.9	0.305529	mg/L	0.0035752	0.305529	mg/L	0.0035752	1.17%
QC value within limits for Fe 273.955 Recovery = 101.84%								
Mg 279.077†	2949.3	5.02883	mg/L	0.009940	5.02883	mg/L	0.009940	0.20%
QC value within limits for Mg 279.077 Recovery = 100.58%								
Mn 257.610†	1045.7	0.0405363	mg/L	0.00015464	0.0405363	mg/L	0.00015464	0.38%
QC value within limits for Mn 257.610 Recovery = 101.34%								
K 766.490†	10671.3	5.18940	mg/L	0.023088	5.18940	mg/L	0.023088	0.44%
QC value within limits for K 766.490 Recovery = 103.79%								
Na 589.592†	42876.1	5.29955	mg/L	0.050542	5.29955	mg/L	0.050542	0.95%
QC value within limits for Na 589.592 Recovery = 105.99%								
Ti 334.940†	1297.5	0.0507336	mg/L	0.00015350	0.0507336	mg/L	0.00015350	0.30%
QC value within limits for Ti 334.940 Recovery = 101.47%								

All analyte(s) passed QC.

Sequence No.: 47
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 2/28/2018 6:07:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	14379.8	98.4977	%	0.44862				0.46%
Sc 361.383	34562.6	98.2	%	0.41				0.42%
Al 308.215†	2.9	0.0041866	mg/L	0.00380434	0.0041866	mg/L	0.00380434	90.87%
QC value within limits for Al 308.215 Recovery = Not calculated								
Ca 315.887†	1.2	-0.0413484	mg/L	0.00245188	-0.0413484	mg/L	0.00245188	5.93%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Fe 273.955†	-0.1	-0.0059116	mg/L	0.00414390	-0.0059116	mg/L	0.00414390	70.10%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	-10.6	-0.0957384	mg/L	0.00286501	-0.0957384	mg/L	0.00286501	2.99%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-2.0	-0.0007407	mg/L	0.00009788	-0.0007407	mg/L	0.00009788	13.21%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	115.6	0.0372424	mg/L	0.00642913	0.0372424	mg/L	0.00642913	17.26%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	806.7	0.151971	mg/L	0.0051422	0.151971	mg/L	0.0051422	3.38%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	10.0	0.0002885	mg/L	0.00005813	0.0002885	mg/L	0.00005813	20.15%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

File SW22208C2 Batch 22208 SW46

Method: PE2 4300DV AXIAL Page 1 Date: 2/28/2018 6:17:43 PM

Analyst [signature] 3/1/18

Analysis Begun

Start Time: 2/28/2018 6:14:48 PM
Logged In Analyst: shiamala
Spectrometer Model: Optima 4300 DV, S/N 077N1030901
Plasma On Time: 2/28/2018 9:38:45 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\administrator\Sample Information\02.28.18.sif
Batch ID:
Results Data Set: SW22208C2
Results Library: C:\pe\administrator\Results\Results.mdb

Method Loaded
Method Name: PE2 4300DV AXIAL
IEC File: IECax082117.iec
Method Description: 200.7/6010B/6010C
Method Last Saved: 2/28/2018 1:32:55 PM
MSF File:

Sequence No.: 1
Sample ID: CALBLK V-273721
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 2/28/2018 6:14:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALBLK V-273721

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1463618.3	8544.44	0.58%	100	%
Y 371.029	474420.7	712.91	0.15%	100	%
Ag 328.068†	1028.8	7.80	0.76%	[0.00]	mg/L
Al 308.215†	5950.4	74.17	1.25%	[0.00]	mg/L
As 188.979†	-34.6	1.33	3.85%	[0.00]	mg/L
Ba 233.527†	-76.9	3.29	4.29%	[0.00]	mg/L
Be 313.107†	967.1	63.79	6.60%	[0.00]	mg/L
Ca 315.887†	3559.2	54.69	1.54%	[0.00]	mg/L
Cd 228.802†	127.4	4.27	3.35%	[0.00]	mg/L
Co 228.616†	-22.0	0.09	0.40%	[0.00]	mg/L
Cr 267.716†	-396.2	0.54	0.14%	[0.00]	mg/L
Cu 327.393†	165.8	19.72	11.89%	[0.00]	mg/L
Fe 273.955†	131.6	2.22	1.68%	[0.00]	mg/L
K 404.721†	-278.9	65.13	23.36%	[0.00]	mg/L
Mg 279.077†	-475.1	13.16	2.77%	[0.00]	mg/L
Mn 257.610†	1472.2	0.31	0.02%	[0.00]	mg/L
Mo 202.031†	-72.3	3.06	4.24%	[0.00]	mg/L
Na 330.237†	1344.7	46.79	3.48%	[0.00]	mg/L
Ni 231.604†	-130.7	9.45	7.23%	[0.00]	mg/L
Pb 220.353†	-231.1	5.70	2.47%	[0.00]	mg/L
Sb 206.836†	40.9	0.54	1.32%	[0.00]	mg/L
Se 196.026†	-16.0	1.67	10.47%	[0.00]	mg/L
Sn 189.927†	-29.1	1.51	5.18%	[0.00]	mg/L
Ti 334.940†	2055.3	42.44	2.06%	[0.00]	mg/L
Tl 190.801†	27.5	8.97	32.57%	[0.00]	mg/L
V 290.880†	3302.4	15.24	0.46%	[0.00]	mg/L
Zn 206.200†	417.0	6.61	1.58%	[0.00]	mg/L

22208
66498

SB 3/1

all elements reported except Na, K

QC, 02671.003, 001, 002, 004, 005
02771.001, 002
02799.002
02668.001-007

all elements reported except Na, K

Sequence No.: 2
Sample ID: CALST1 V-270575
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 2/28/2018 6:18:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST1 V-270575

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1478617.2	149.94	0.01%	101	%
Y 371.029	471747.5	14228.26	3.02%	99.4	%
Be 313.107†	10622.5	21.67	0.20%	[0.003]	mg/L
Cd 228.802†	176.5	13.99	7.93%	[0.003]	mg/L

Sequence No.: 3
Sample ID: CALST2 V-273214
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 2/28/2018 6:22:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST2 V-273214

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1455499.6	24539.77	1.69%	99.4	%
Y 371.029	464862.2	14150.32	3.04%	98.0	%
Ag 328.068†	611.9	3.08	0.50%	[0.002]	mg/L
Al 308.215†	3911.0	263.74	6.74%	[0.10]	mg/L
As 188.979†	21.2	1.71	8.08%	[0.010]	mg/L
Ba 233.527†	1377.4	13.75	1.00%	[0.010]	mg/L
Be 313.107†	36498.0	767.75	2.10%	[0.010]	mg/L
Ca 315.887†	140469.0	927.54	0.66%	[1.0]	mg/L
Cd 228.802†	629.5	5.23	0.83%	[0.010]	mg/L
Co 228.616†	587.7	14.36	2.44%	[0.010]	mg/L
Cr 267.716†	1345.5	28.40	2.11%	[0.010]	mg/L
Cu 327.393†	1460.5	2.54	0.17%	[0.010]	mg/L
Fe 273.955†	3495.9	57.77	1.65%	[0.10]	mg/L
K 404.721†	131.0	23.21	17.72%	[1.0]	mg/L
Mg 279.077†	21908.7	414.09	1.89%	[1.0]	mg/L
Mn 257.610†	11385.4	228.76	2.01%	[0.010]	mg/L
Mo 202.031†	159.5	1.14	0.71%	[0.010]	mg/L
Na 330.237†	1000.1	23.74	2.37%	[1.0]	mg/L
Ni 231.604†	483.6	13.99	2.89%	[0.010]	mg/L
Pb 220.353†	97.7	3.74	3.83%	[0.010]	mg/L
Sb 206.836†	31.5	6.89	21.87%	[0.010]	mg/L
Se 196.026†	14.1	4.43	31.50%	[0.010]	mg/L
Sn 189.927†	52.0	3.75	7.21%	[0.010]	mg/L
Ti 334.940†	10431.9	209.92	2.01%	[0.010]	mg/L
Tl 190.801†	21.6	0.20	0.93%	[0.010]	mg/L
V 290.880†	1978.0	218.40	11.04%	[0.010]	mg/L
Zn 206.200†	666.6	20.10	3.02%	[0.010]	mg/L

Sequence No.: 4
Sample ID: CALST3 V-273216
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 2/28/2018 6:25:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST3 V-273216

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1396491.1	7348.82	0.53%	95.4	%
Y 371.029	432208.3	1752.33	0.41%	91.1	%
Ag 328.068†	26139.6	52.18	0.20%	[0.10]	mg/L
Al 308.215†	185881.4	17.85	0.01%	[5.0]	mg/L
As 188.979†	847.1	4.14	0.49%	[0.50]	mg/L
Ba 233.527†	66015.8	258.96	0.39%	[0.50]	mg/L
Be 313.107†	1862608.9	13905.35	0.75%	[0.50]	mg/L
Ca 315.887†	6713055.9	52617.09	0.78%	[50]	mg/L
Cd 228.802†	31782.9	34.09	0.11%	[0.50]	mg/L
Co 228.616†	28748.1	14.60	0.05%	[0.50]	mg/L
Cr 267.716†	65813.4	168.46	0.26%	[0.50]	mg/L
Cu 327.393†	70951.4	1386.35	1.95%	[0.50]	mg/L
Fe 273.955†	164737.1	171.85	0.10%	[5.0]	mg/L
K 404.721†	5158.6	51.39	1.00%	[50]	mg/L
Mg 279.077†	1028692.0	7893.26	0.77%	[50]	mg/L
Mn 257.610†	536242.3	4083.63	0.76%	[0.50]	mg/L
Mo 202.031†	8031.8	66.06	0.82%	[0.50]	mg/L
Na 330.237†	63662.5	45.99	0.07%	[50]	mg/L
Ni 231.604†	23237.0	45.85	0.20%	[0.50]	mg/L
Pb 220.353†	5127.9	30.58	0.60%	[0.50]	mg/L
Sb 206.836†	1959.2	13.38	0.68%	[0.50]	mg/L
Se 196.026†	749.1	3.47	0.46%	[0.50]	mg/L
Sn 189.927†	2217.4	5.53	0.25%	[0.50]	mg/L
Ti 334.940†	519102.7	4902.89	0.94%	[0.50]	mg/L
Tl 190.801†	822.3	10.37	1.26%	[0.50]	mg/L
V 290.880†	101651.7	47.33	0.05%	[0.50]	mg/L
Zn 206.200†	33490.0	8.08	0.02%	[0.50]	mg/L

Sequence No.: 5
Sample ID: CALST4 V-272853
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/28/2018 6:30:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST4 V-272853

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sc 361.383	1331920.1	4892.96	0.37%	91.0	%
Y 371.029	418364.3	30.18	0.01%	88.2	%
Ag 328.068†	52886.1	199.80	0.38%	[0.20]	mg/L
Al 308.215†	377482.4	1182.59	0.31%	[10]	mg/L
As 188.979†	1728.8	4.21	0.24%	[1.0]	mg/L
Ba 233.527†	131889.8	12.41	0.01%	[1.0]	mg/L
Be 313.107†	3755715.2	20412.25	0.54%	[1.0]	mg/L
Ca 315.887†	13423353.3	57095.67	0.43%	[100]	mg/L
Cd 228.802†	64250.9	141.13	0.22%	[1.0]	mg/L
Co 228.616†	57123.7	70.86	0.12%	[1.0]	mg/L
Cr 267.716†	131418.1	244.73	0.19%	[1.0]	mg/L
Cu 327.393†	143354.2	837.11	0.58%	[1.0]	mg/L
Fe 273.955†	329094.7	600.84	0.18%	[10]	mg/L
K 404.721†	11193.7	71.51	0.64%	[100]	mg/L
Mg 279.077†	2046932.8	1971.01	0.10%	[100]	mg/L
Mn 257.610†	1074728.5	1472.93	0.14%	[1.0]	mg/L
Mo 202.031†	16205.5	17.91	0.11%	[1.0]	mg/L
Na 330.237†	138525.3	14.91	0.01%	[100]	mg/L
Ni 231.604†	46021.9	97.21	0.21%	[1.0]	mg/L
Pb 220.353†	10303.0	51.13	0.50%	[1.0]	mg/L
Sb 206.836†	4026.5	16.47	0.41%	[1.0]	mg/L
Se 196.026†	1509.0	18.14	1.20%	[1.0]	mg/L
Sn 189.927†	4476.5	3.53	0.08%	[1.0]	mg/L
Ti 334.940†	1053678.6	3135.24	0.30%	[1.0]	mg/L
Tl 190.801†	1634.4	14.11	0.86%	[1.0]	mg/L
V 290.880†	204309.8	267.55	0.13%	[1.0]	mg/L
Zn 206.200†	66406.9	38.84	0.06%	[1.0]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin, Calc Int	-17.5	263900	0.00000	0.999979	
Al 308.215	3	Lin, Calc Int	-458.7	37690	0.00000	0.999968	
As 188.979	3	Lin, Calc Int	-1.4	1724	0.00000	0.999938	
Ba 233.527	3	Lin, Calc Int	39.5	131900	0.00000	1.000000	
Be 313.107	4	Lin, Calc Int	-2433.0	3753000	0.00000	0.999992	
Ca 315.887	3	Lin, Calc Int	3081.9	134200	0.00000	1.000000	
Cd 228.802	4	Lin, Calc Int	-51.8	64180	0.00000	0.999987	
Co 228.616	3	Lin, Calc Int	41.4	57150	0.00000	0.999995	
Cr 267.716	3	Lin, Calc Int	33.2	131400	0.00000	1.000000	
Cu 327.393	3	Lin, Calc Int	-119.8	143200	0.00000	0.999986	
Fe 273.955	3	Lin, Calc Int	127.6	32900	0.00000	1.000000	
K 404.721	3	Lin, Calc Int	-71.1	111.0	0.00000	0.999148	
Mg 279.077	3	Lin, Calc Int	1604.5	20470	0.00000	0.999997	
Mn 257.610	3	Lin, Calc Int	85.5	1074000	0.00000	0.999999	
Mo 202.031	3	Lin, Calc Int	-14.1	16190	0.00000	0.999990	
Na 330.237	3	Lin, Calc Int	-1194.1	1377	0.00000	0.999144	
Ni 231.604	3	Lin, Calc Int	51.8	46050	0.00000	0.999988	
Pb 220.353	3	Lin, Calc Int	-6.7	10300	0.00000	0.999997	
Sb 206.836	3	Lin, Calc Int	-13.8	4022	0.00000	0.999909	
Se 196.026	3	Lin, Calc Int	-1.5	1509	0.00000	0.999994	
Sn 189.927	3	Lin, Calc Int	-0.5	4469	0.00000	0.999985	
Ti 334.940	3	Lin, Calc Int	-1455.7	1052000	0.00000	0.999971	
Tl 190.801	3	Lin, Calc Int	3.3	1632	0.00000	0.999993	
V 290.880	3	Lin, Calc Int	-121.1	204300	0.00000	0.999997	
Zn 206.200	3	Lin, Calc Int	53.3	66460	0.00000	0.999990	

Sequence No.: 6
Sample ID: ICS3 V-273216
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 2/28/2018 6:35:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICS3 V-273216

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sc 361.383	1380650.4	94.3	%	0.40				0.43%
Y 371.029	434452.4	91.6	%	0.36				0.40%
Ag 328.068†	26073.7	0.0990888	mg/L	0.00033451	0.0990888	mg/L	0.00033451	0.34%
QC value within limits for Ag 328.068 Recovery = 99.09%								
Al 308.215†	185139.5	4.92442	mg/L	0.024271	4.92442	mg/L	0.024271	0.49%
QC value within limits for Al 308.215 Recovery = 98.49%								
As 188.979†	834.2	0.486505	mg/L	0.0035288	0.486505	mg/L	0.0035288	0.73%
QC value within limits for As 188.979 Recovery = 97.30%								
Ba 233.527†	65520.6	0.495803	mg/L	0.0006083	0.495803	mg/L	0.0006083	0.12%
QC value within limits for Ba 233.527 Recovery = 99.16%								
Be 313.107†	1856854.3	0.495160	mg/L	0.0044683	0.495160	mg/L	0.0044683	0.90%
QC value within limits for Be 313.107 Recovery = 99.03%								
Ca 315.887†	6685050.6	49.7903	mg/L	0.35256	49.7903	mg/L	0.35256	0.71%
QC value within limits for Ca 315.887 Recovery = 99.58%								
Cd 228.802†	31602.6	0.493266	mg/L	0.0020377	0.493266	mg/L	0.0020377	0.41%
QC value within limits for Cd 228.802 Recovery = 98.65%								
Co 228.616†	28640.2	0.499355	mg/L	0.0023328	0.499355	mg/L	0.0023328	0.47%
QC value within limits for Co 228.616 Recovery = 99.87%								
Cr 267.716†	65613.2	0.497951	mg/L	0.0026213	0.497951	mg/L	0.0026213	0.53%
QC value within limits for Cr 267.716 Recovery = 99.59%								
Cu 327.393†	69267.5	0.488189	mg/L	0.0012372	0.488189	mg/L	0.0012372	0.25%
QC value within limits for Cu 327.393 Recovery = 97.64%								
Fe 273.955†	164104.6	4.98383	mg/L	0.017206	4.98383	mg/L	0.017206	0.35%
QC value within limits for Fe 273.955 Recovery = 99.68%								
K 404.721†	5100.4	46.5720	mg/L	0.01747	46.5720	mg/L	0.01747	0.04%
QC value within limits for K 404.721 Recovery = 93.14%								
Mg 279.077†	1023147.6	49.9021	mg/L	0.36452	49.9021	mg/L	0.36452	0.73%
QC value within limits for Mg 279.077 Recovery = 99.80%								
Mn 257.610†	534752.1	0.496068	mg/L	0.0039233	0.496068	mg/L	0.0039233	0.79%
QC value within limits for Mn 257.610 Recovery = 99.21%								
Mo 202.031†	8002.5	0.495140	mg/L	0.0027478	0.495140	mg/L	0.0027478	0.55%
QC value within limits for Mo 202.031 Recovery = 99.03%								
Na 330.237†	63508.9	46.9799	mg/L	0.13683	46.9799	mg/L	0.13683	0.29%
QC value within limits for Na 330.237 Recovery = 93.96%								
Ni 231.604†	23137.8	0.501402	mg/L	0.0024011	0.501402	mg/L	0.0024011	0.48%
QC value within limits for Ni 231.604 Recovery = 100.28%								
Pb 220.353†	5095.0	0.496814	mg/L	0.0009623	0.496814	mg/L	0.0009623	0.19%
QC value within limits for Pb 220.353 Recovery = 99.36%								
Sb 206.836†	1956.3	0.490383	mg/L	0.0031858	0.490383	mg/L	0.0031858	0.65%
QC value within limits for Sb 206.836 Recovery = 98.08%								
Se 196.026†	738.7	0.491537	mg/L	0.0021719	0.491537	mg/L	0.0021719	0.44%
QC value within limits for Se 196.026 Recovery = 98.31%								
Sn 189.927†	2213.7	0.497931	mg/L	0.0027697	0.497931	mg/L	0.0027697	0.56%
QC value within limits for Sn 189.927 Recovery = 99.59%								
Ti 334.940†	521813.6	0.495416	mg/L	0.0057569	0.495416	mg/L	0.0057569	1.16%
QC value within limits for Ti 334.940 Recovery = 99.08%								
Tl 190.801†	811.8	0.497805	mg/L	0.0037522	0.497805	mg/L	0.0037522	0.75%
QC value within limits for Tl 190.801 Recovery = 99.56%								
V 290.880†	101306.1	0.496212	mg/L	0.0014182	0.496212	mg/L	0.0014182	0.29%
QC value within limits for V 290.880 Recovery = 99.24%								
Zn 206.200†	33236.8	0.499271	mg/L	0.0016303	0.499271	mg/L	0.0016303	0.33%
QC value within limits for Zn 206.200 Recovery = 99.85%								

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: ICV V-273563
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/28/2018 6:40:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV V-273563

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1356176.6	92.7	%	0.22				0.24%
Y 371.029	425472.5	89.7	%	2.84				3.16%
Ag 328.068†	25850.0	0.0982426	mg/L	0.00026677	0.0982426	mg/L	0.00026677	0.27%
QC value within limits for Ag 328.068 Recovery = 98.24%								
Al 308.215†	185135.3	4.92430	mg/L	0.010121	4.92430	mg/L	0.010121	0.21%
QC value within limits for Al 308.215 Recovery = 98.49%								
As 188.979†	837.4	0.488357	mg/L	0.0047211	0.488357	mg/L	0.0047211	0.97%
QC value within limits for As 188.979 Recovery = 97.67%								
Ba 233.527†	65469.0	0.495405	mg/L	0.0032812	0.495405	mg/L	0.0032812	0.66%
QC value within limits for Ba 233.527 Recovery = 99.08%								
Be 313.107†	1824680.9	0.486584	mg/L	0.0024268	0.486584	mg/L	0.0024268	0.50%
QC value within limits for Be 313.107 Recovery = 97.32%								
Ca 315.887†	6739653.5	50.1971	mg/L	0.28646	50.1971	mg/L	0.28646	0.57%
QC value within limits for Ca 315.887 Recovery = 100.39%								
Cd 228.802†	31417.2	0.490377	mg/L	0.0003341	0.490377	mg/L	0.0003341	0.07%
QC value within limits for Cd 228.802 Recovery = 98.08%								
Co 228.616†	28478.5	0.496519	mg/L	0.0022455	0.496519	mg/L	0.0022455	0.45%
QC value within limits for Co 228.616 Recovery = 99.30%								
Cr 267.716†	66538.1	0.504980	mg/L	0.0004049	0.504980	mg/L	0.0004049	0.08%
QC value within limits for Cr 267.716 Recovery = 101.00%								
Cu 327.393†	71947.6	0.506928	mg/L	0.0079661	0.506928	mg/L	0.0079661	1.57%
QC value within limits for Cu 327.393 Recovery = 101.39%								
Fe 273.955†	164996.9	5.01095	mg/L	0.000338	5.01095	mg/L	0.000338	0.01%
QC value within limits for Fe 273.955 Recovery = 100.22%								
K 404.721†	5203.9	47.5041	mg/L	0.63958	47.5041	mg/L	0.63958	1.35%
QC value within limits for K 404.721 Recovery = 95.01%								
Mg 279.077†	1032240.8	50.3463	mg/L	0.28742	50.3463	mg/L	0.28742	0.57%
QC value within limits for Mg 279.077 Recovery = 100.69%								
Mn 257.610†	533315.2	0.494716	mg/L	0.0034150	0.494716	mg/L	0.0034150	0.69%
QC value within limits for Mn 257.610 Recovery = 98.94%								
Mo 202.031†	8106.3	0.501554	mg/L	0.0029091	0.501554	mg/L	0.0029091	0.58%
QC value within limits for Mo 202.031 Recovery = 100.31%								
Na 330.237†	63881.2	47.2502	mg/L	0.25784	47.2502	mg/L	0.25784	0.55%
QC value within limits for Na 330.237 Recovery = 94.50%								
Ni 231.604†	23072.7	0.499988	mg/L	0.0002161	0.499988	mg/L	0.0002161	0.04%
QC value within limits for Ni 231.604 Recovery = 100.00%								
Pb 220.353†	5121.6	0.499400	mg/L	0.0039224	0.499400	mg/L	0.0039224	0.79%
QC value within limits for Pb 220.353 Recovery = 99.88%								
Sb 206.836†	1985.1	0.497542	mg/L	0.0052850	0.497542	mg/L	0.0052850	1.06%
QC value within limits for Sb 206.836 Recovery = 99.51%								
Se 196.026†	745.5	0.496038	mg/L	0.0017718	0.496038	mg/L	0.0017718	0.36%
QC value within limits for Se 196.026 Recovery = 99.21%								
Sn 189.927†	2256.8	0.507575	mg/L	0.0025757	0.507575	mg/L	0.0025757	0.51%
QC value within limits for Sn 189.927 Recovery = 101.52%								
Ti 334.940†	524930.1	0.498360	mg/L	0.0090891	0.498360	mg/L	0.0090891	1.82%
QC value within limits for Ti 334.940 Recovery = 99.67%								
Tl 190.801†	806.1	0.494303	mg/L	0.0026828	0.494303	mg/L	0.0026828	0.54%
QC value within limits for Tl 190.801 Recovery = 98.86%								
V 290.880†	101003.6	0.494730	mg/L	0.0015602	0.494730	mg/L	0.0015602	0.32%
QC value within limits for V 290.880 Recovery = 98.95%								
Zn 206.200†	33232.0	0.499199	mg/L	0.0015834	0.499199	mg/L	0.0015834	0.32%
QC value within limits for Zn 206.200 Recovery = 99.84%								

All analyte(s) passed QC.

Sequence No.: 8
Sample ID: LLICV [aq] V-274418
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/28/2018 6:45:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLICV [aq] V-274418

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1462330.3	99.9	%	0.29				0.29%
Y 371.029	473505.9	99.8	%	1.07				1.08%
Ag 328.068†	5351.8	0.0203579	mg/L	0.00009692	0.0203579	mg/L	0.00009692	0.48%
QC value within limits for Ag 328.068 Recovery = 101.79%								
Al 308.215†	8035.7	0.225379	mg/L	0.0042421	0.225379	mg/L	0.0042421	1.88%
QC value within limits for Al 308.215 Recovery = 112.69%								
As 188.979†	32.9	0.0200406	mg/L	0.00161193	0.0200406	mg/L	0.00161193	8.04%
QC value within limits for As 188.979 Recovery = 100.20%								
Ba 233.527†	6802.2	0.0512051	mg/L	0.00080208	0.0512051	mg/L	0.00080208	1.57%
QC value within limits for Ba 233.527 Recovery = 102.41%								
Be 313.107†	43819.8	0.0122931	mg/L	0.00008556	0.0122931	mg/L	0.00008556	0.70%
QC value within limits for Be 313.107 Recovery = 102.44%								
Ca 315.887†	694178.6	5.14966	mg/L	0.040981	5.14966	mg/L	0.040981	0.80%
QC value within limits for Ca 315.887 Recovery = 102.99%								
Cd 228.802†	754.0	0.0125575	mg/L	0.00005015	0.0125575	mg/L	0.00005015	0.40%
QC value within limits for Cd 228.802 Recovery = 104.65%								
Co 228.616†	1173.0	0.0196976	mg/L	0.00016381	0.0196976	mg/L	0.00016381	0.83%
QC value within limits for Co 228.616 Recovery = 98.49%								
Cr 267.716†	6804.3	0.0514135	mg/L	0.00007642	0.0514135	mg/L	0.00007642	0.15%
QC value within limits for Cr 267.716 Recovery = 102.83%								
Cu 327.393†	7496.7	0.0535379	mg/L	0.00067189	0.0535379	mg/L	0.00067189	1.25%
QC value within limits for Cu 327.393 Recovery = 107.08%								
Fe 273.955†	10314.3	0.309610	mg/L	0.0022362	0.309610	mg/L	0.0022362	0.72%
QC value within limits for Fe 273.955 Recovery = 103.20%								
K 404.721†	511.2	5.24421	mg/L	0.069555	5.24421	mg/L	0.069555	1.33%
QC value within limits for K 404.721 Recovery = 104.88%								
Mg 279.077†	106797.1	5.13862	mg/L	0.045324	5.13862	mg/L	0.045324	0.88%
QC value within limits for Mg 279.077 Recovery = 102.77%								
Mn 257.610†	44719.6	0.0413793	mg/L	0.00031980	0.0413793	mg/L	0.00031980	0.77%
QC value within limits for Mn 257.610 Recovery = 103.45%								
Mo 202.031†	331.0	0.0213157	mg/L	0.00020798	0.0213157	mg/L	0.00020798	0.98%
QC value within limits for Mo 202.031 Recovery = 106.58%								
Na 330.237†	5483.9	4.84876	mg/L	0.058470	4.84876	mg/L	0.058470	1.21%
QC value within limits for Na 330.237 Recovery = 96.98%								
Ni 231.604†	2365.2	0.0502426	mg/L	0.00013643	0.0502426	mg/L	0.00013643	0.27%
QC value within limits for Ni 231.604 Recovery = 100.49%								
Pb 220.353†	131.6	0.0135131	mg/L	0.00021469	0.0135131	mg/L	0.00021469	1.59%
QC value within limits for Pb 220.353 Recovery = 112.61%								
Sb 206.836†	80.2	0.0234591	mg/L	0.00072218	0.0234591	mg/L	0.00072218	3.08%
QC value within limits for Sb 206.836 Recovery = 117.30%								
Se 196.026†	59.3	0.0402720	mg/L	0.00307176	0.0402720	mg/L	0.00307176	7.63%
QC value within limits for Se 196.026 Recovery = 100.68%								
Sn 189.927†	244.8	0.0551332	mg/L	0.00134919	0.0551332	mg/L	0.00134919	2.45%
QC value within limits for Sn 189.927 Recovery = 110.27%								
Ti 334.940†	53006.9	0.0515816	mg/L	0.00073965	0.0515816	mg/L	0.00073965	1.43%
QC value within limits for Ti 334.940 Recovery = 103.16%								
Tl 190.801†	34.5	0.0193889	mg/L	0.00006790	0.0193889	mg/L	0.00006790	0.35%
QC value within limits for Tl 190.801 Recovery = 96.94%								
V 290.880†	10507.7	0.0519864	mg/L	0.00072430	0.0519864	mg/L	0.00072430	1.39%
QC value within limits for V 290.880 Recovery = 103.97%								
Zn 206.200†	3325.5	0.0492353	mg/L	0.00017765	0.0492353	mg/L	0.00017765	0.36%
QC value within limits for Zn 206.200 Recovery = 98.47%								

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: ICB V-273721
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 2/28/2018 6:49:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICB V-273721

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	1481817.3	101	%	1.1				1.08%
Y 371.029	482668.7	102	%	0.3				0.32%
Ag 328.068†	64.0	0.0003088	mg/L	0.00003531	0.0003088	mg/L	0.00003531	11.44%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-16.5	0.0117322	mg/L	0.00035767	0.0117322	mg/L	0.00035767	3.05%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	0.5	0.0010510	mg/L	0.00002424	0.0010510	mg/L	0.00002424	2.31%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	11.0	-0.0002159	mg/L	0.00004042	-0.0002159	mg/L	0.00004042	18.72%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	116.7	0.0006785	mg/L	0.00002658	0.0006785	mg/L	0.00002658	3.92%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	366.1	-0.0202367	mg/L	0.00264169	-0.0202367	mg/L	0.00264169	13.05%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 228.802†	-6.4	0.0007077	mg/L	0.00002795	0.0007077	mg/L	0.00002795	3.95%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-6.5	-0.0008404	mg/L	0.00007327	-0.0008404	mg/L	0.00007327	8.72%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-10.6	-0.0003319	mg/L	0.00000494	-0.0003319	mg/L	0.00000494	1.49%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	47.3	0.0011723	mg/L	0.00025689	0.0011723	mg/L	0.00025689	21.91%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955†	10.9	-0.0035458	mg/L	0.00022483	-0.0035458	mg/L	0.00022483	6.34%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 404.721†	80.7	1.36694	mg/L	0.124359	1.36694	mg/L	0.124359	9.10%
QC value within limits for K 404.721 Recovery = Not calculated								
Mg 279.077†	66.4	-0.0751339	mg/L	0.00034825	-0.0751339	mg/L	0.00034825	0.46%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	21.5	-0.0000571	mg/L	0.00002475	-0.0000571	mg/L	0.00002475	43.37%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	1.7	0.0009756	mg/L	0.00026486	0.0009756	mg/L	0.00026486	27.15%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 330.237†	-29.9	0.845285	mg/L	0.0530518	0.845285	mg/L	0.0530518	6.28%
QC value within limits for Na 330.237 Recovery = Not calculated								
Ni 231.604†	-1.2	-0.0011506	mg/L	0.00010512	-0.0011506	mg/L	0.00010512	9.14%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-2.2	0.0004408	mg/L	0.00017021	0.0004408	mg/L	0.00017021	38.61%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-1.4	0.0030893	mg/L	0.00000541	0.0030893	mg/L	0.00000541	0.18%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	1.2	0.0017568	mg/L	0.00521678	0.0017568	mg/L	0.00521678	296.95%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	13.0	0.0030341	mg/L	0.00021166	0.0030341	mg/L	0.00021166	6.98%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	122.9	0.0015016	mg/L	0.00007074	0.0015016	mg/L	0.00007074	4.71%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	1.6	-0.0010687	mg/L	0.00076813	-0.0010687	mg/L	0.00076813	71.87%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	-52.2	0.0003392	mg/L	0.00035800	0.0003392	mg/L	0.00035800	105.56%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	-22.2	-0.0011358	mg/L	0.00008631	-0.0011358	mg/L	0.00008631	7.60%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: ICSA V-273217
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/28/2018 6:52:36 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-273217

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sc 361.383	1234335.5	84.3	%	1.96				2.33%
Y 371.029	374736.8	79.0	%	0.35				0.45%
Ag 328.068†	-2141.2	0.0004754	mg/L	0.00065671	0.0004754	mg/L	0.00065671	138.13%
Al 308.215†	18393286.0	488.035	mg/L	10.9806	488.035	mg/L	10.9806	2.25%
QC value within limits for Al 308.215 Recovery = 97.61%								
As 188.979†	-80.5	0.0425867	mg/L	0.00252200	0.0425867	mg/L	0.00252200	5.92%
Ba 233.527†	935.1	-0.0002053	mg/L	0.00010595	-0.0002053	mg/L	0.00010595	51.62%
Be 313.107†	-3829.3	-0.0003853	mg/L	0.00000625	-0.0003853	mg/L	0.00000625	1.62%
Ca 315.887†	62169272.8	463.227	mg/L	9.5343	463.227	mg/L	9.5343	2.06%
QC value within limits for Ca 315.887 Recovery = 92.65%								
Cd 228.802†	-211.1	-0.0015636	mg/L	0.00004812	-0.0015636	mg/L	0.00004812	3.08%
Co 228.616†	250.8	-0.0059364	mg/L	0.00011816	-0.0059364	mg/L	0.00011816	1.99%
Cr 267.716†	927.9	-0.0033331	mg/L	0.00029675	-0.0033331	mg/L	0.00029675	8.90%
Cu 327.393†	-5387.6	-0.0024231	mg/L	0.00001973	-0.0024231	mg/L	0.00001973	0.81%
Fe 273.955†	5991827.1	182.108	mg/L	0.4455	182.108	mg/L	0.4455	0.24%
QC value within limits for Fe 273.955 Recovery = 91.05%								
K 404.721†	-430.3	-3.23467	mg/L	0.501807	-3.23467	mg/L	0.501807	15.51%
Mg 279.077†	9777860.7	477.567	mg/L	9.6464	477.567	mg/L	9.6464	2.02%
QC value within limits for Mg 279.077 Recovery = 95.51%								
Mn 257.610†	24276.7	0.0064928	mg/L	0.00013723	0.0064928	mg/L	0.00013723	2.11%
Mo 202.031†	-284.1	-0.0057778	mg/L	0.00016129	-0.0057778	mg/L	0.00016129	2.79%
Na 330.237†	-68.0	0.817639	mg/L	0.0601665	0.817639	mg/L	0.0601665	7.36%
Ni 231.604†	103.5	0.0038971	mg/L	0.00006639	0.0038971	mg/L	0.00006639	1.70%
Pb 220.353†	-1195.8	0.0044852	mg/L	0.00079875	0.0044852	mg/L	0.00079875	17.81%
Sb 206.836†	-45.6	0.0091318	mg/L	0.00221565	0.0091318	mg/L	0.00221565	24.26%
Se 196.026†	-192.5	-0.0174427	mg/L	0.00975794	-0.0174427	mg/L	0.00975794	55.94%
Sn 189.927†	-94.9	-0.0062598	mg/L	0.00051172	-0.0062598	mg/L	0.00051172	8.17%
Ti 334.940†	20642.3	0.0061524	mg/L	0.00005590	0.0061524	mg/L	0.00005590	0.91%
Tl 190.801†	108.2	-0.0635541	mg/L	0.00014534	-0.0635541	mg/L	0.00014534	0.23%
V 290.880†	2282.7	-0.0029775	mg/L	0.00007453	-0.0029775	mg/L	0.00007453	2.50%
Zn 206.200†	1258.1	0.0131336	mg/L	0.00020888	0.0131336	mg/L	0.00020888	1.59%

All analyte(s) passed QC.

Sequence No.: 11 Autosampler Location: 8
Sample ID: ICSAB V-273219 Date Collected: 2/28/2018 6:58:11 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: ICSAB V-273219

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	1217325.2	83.2	%	0.69				0.83%
Y 371.029	372817.7	78.6	%	0.44				0.56%
Ag 328.068†	284815.8	1.08780	mg/L	0.007413	1.08780	mg/L	0.007413	0.68%
QC value within limits for Ag 328.068 Recovery = 108.78%								
Al 308.215†	18525145.1	491.534	mg/L	0.1749	491.534	mg/L	0.1749	0.04%
QC value within limits for Al 308.215 Recovery = 98.31%								
As 188.979†	1636.1	1.03924	mg/L	0.000304	1.03924	mg/L	0.000304	0.03%
QC value within limits for As 188.979 Recovery = 103.92%								
Ba 233.527†	67998.2	0.508302	mg/L	0.0040219	0.508302	mg/L	0.0040219	0.79%
QC value within limits for Ba 233.527 Recovery = 101.66%								
Be 313.107†	1855355.3	0.495060	mg/L	0.0010223	0.495060	mg/L	0.0010223	0.21%
QC value within limits for Be 313.107 Recovery = 99.01%								
Ca 315.887†	62553611.2	466.091	mg/L	0.3134	466.091	mg/L	0.3134	0.07%
QC value within limits for Ca 315.887 Recovery = 93.22%								
Cd 228.802†	65743.1	1.02615	mg/L	0.005929	1.02615	mg/L	0.005929	0.58%
QC value within limits for Cd 228.802 Recovery = 102.61%								
Co 228.616†	26798.6	0.458524	mg/L	0.0010189	0.458524	mg/L	0.0010189	0.22%
QC value within limits for Co 228.616 Recovery = 91.70%								
Cr 267.716†	65683.2	0.489327	mg/L	0.0042433	0.489327	mg/L	0.0042433	0.87%
QC value within limits for Cr 267.716 Recovery = 97.87%								
Cu 327.393†	69966.4	0.524073	mg/L	0.0058440	0.524073	mg/L	0.0058440	1.12%
QC value within limits for Cu 327.393 Recovery = 104.81%								
Fe 273.955†	6053147.4	183.972	mg/L	0.0902	183.972	mg/L	0.0902	0.05%
QC value within limits for Fe 273.955 Recovery = 91.99%								
K 404.721†	-502.2	-3.88197	mg/L	0.386567	-3.88197	mg/L	0.386567	9.96%
Mg 279.077†	9850517.2	481.116	mg/L	0.1243	481.116	mg/L	0.1243	0.03%
QC value within limits for Mg 279.077 Recovery = 96.22%								
Mn 257.610†	551607.7	0.497288	mg/L	0.0026190	0.497288	mg/L	0.0026190	0.53%
QC value within limits for Mn 257.610 Recovery = 99.46%								
Mo 202.031†	-284.8	-0.0057431	mg/L	0.00002926	-0.0057431	mg/L	0.00002926	0.51%
Na 330.237†	430.9	1.17991	mg/L	0.140801	1.17991	mg/L	0.140801	11.93%
Ni 231.604†	42205.2	0.918187	mg/L	0.0082620	0.918187	mg/L	0.0082620	0.90%
QC value within limits for Ni 231.604 Recovery = 91.82%								
Pb 220.353†	8618.2	0.957974	mg/L	0.0003048	0.957974	mg/L	0.0003048	0.03%
QC value within limits for Pb 220.353 Recovery = 95.80%								
Sb 206.836†	4065.2	1.03140	mg/L	0.009081	1.03140	mg/L	0.009081	0.88%
QC value within limits for Sb 206.836 Recovery = 103.14%								
Se 196.026†	1313.3	0.981392	mg/L	0.0014702	0.981392	mg/L	0.0014702	0.15%
QC value within limits for Se 196.026 Recovery = 98.14%								
Sn 189.927†	-115.6	-0.0108099	mg/L	0.00006167	-0.0108099	mg/L	0.00006167	0.57%
Ti 334.940†	20819.9	0.0062134	mg/L	0.00016527	0.0062134	mg/L	0.00016527	2.66%
Tl 190.801†	1619.2	0.863217	mg/L	0.0100119	0.863217	mg/L	0.0100119	1.16%
QC value within limits for Tl 190.801 Recovery = 86.32%								
V 290.880†	101716.7	0.483700	mg/L	0.0028258	0.483700	mg/L	0.0028258	0.58%
QC value within limits for V 290.880 Recovery = 96.74%								
Zn 206.200†	63972.5	0.956780	mg/L	0.0055775	0.956780	mg/L	0.0055775	0.58%
QC value within limits for Zn 206.200 Recovery = 95.68%								

All analyte(s) passed QC.

Sequence No.: 12
Sample ID: AD02671-003
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 41
Date Collected: 2/28/2018 7:03:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02671-003

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1385820.2	94.7	%	0.15				0.16%
Y 371.029	437307.4	92.2	%	2.41				2.61%
Ag 328.068†	75.4	0.0004081	mg/L	0.00021903	0.0004081	mg/L	0.00021903	53.68%
Al 308.215†	6577.3	0.186684	mg/L	0.0023714	0.186684	mg/L	0.0023714	1.27%
As 188.979†	3.1	0.0027860	mg/L	0.00270782	0.0027860	mg/L	0.00270782	97.19%
Ba 233.527†	3457.2	0.0257067	mg/L	0.00016066	0.0257067	mg/L	0.00016066	0.62%
Be 313.107†	195.5	0.0006971	mg/L	0.00001190	0.0006971	mg/L	0.00001190	1.71%
Ca 315.887†	1873739.2	13.9391	mg/L	0.05355	13.9391	mg/L	0.05355	0.38%
Cd 228.802†	-1.0	0.0007981	mg/L	0.00001899	0.0007981	mg/L	0.00001899	2.38%
Co 228.616†	11.3	-0.0005670	mg/L	0.00010220	-0.0005670	mg/L	0.00010220	18.03%
Cr 267.716†	131.8	0.0007053	mg/L	0.00012615	0.0007053	mg/L	0.00012615	17.89%
Cu 327.393†	120.2	0.0021420	mg/L	0.00007582	0.0021420	mg/L	0.00007582	3.54%
Fe 273.955†	39487.0	1.19627	mg/L	0.002963	1.19627	mg/L	0.002963	0.25%
K 404.721†	188.0	2.33312	mg/L	0.038590	2.33312	mg/L	0.038590	1.65%
Mg 279.077†	45018.0	2.12074	mg/L	0.003756	2.12074	mg/L	0.003756	0.18%
Mn 257.610†	406253.9	0.378048	mg/L	0.0012637	0.378048	mg/L	0.0012637	0.33%
Mo 202.031†	12.4	0.0016427	mg/L	0.00019655	0.0016427	mg/L	0.00019655	11.97%
Na 330.237†	129478.7	94.8797	mg/L	0.21627	94.8797	mg/L	0.21627	0.23%
Ni 231.604†	18.1	-0.0007135	mg/L	0.00015221	-0.0007135	mg/L	0.00015221	21.33%
Pb 220.353†	-13.0	-0.0005549	mg/L	0.00075952	-0.0005549	mg/L	0.00075952	136.87%
Sb 206.836†	5.0	0.0045530	mg/L	0.00231085	0.0045530	mg/L	0.00231085	50.75%
Se 196.026†	7.3	0.0052609	mg/L	0.00760020	0.0052609	mg/L	0.00760020	144.47%
Sn 189.927†	52.6	0.0121265	mg/L	0.00082242	0.0121265	mg/L	0.00082242	6.78%
Ti 334.940†	4086.3	0.0051444	mg/L	0.00010043	0.0051444	mg/L	0.00010043	1.95%
Tl 190.801†	-4.9	-0.0032866	mg/L	0.00250484	-0.0032866	mg/L	0.00250484	76.21%
V 290.880†	359.1	0.0022658	mg/L	0.00032779	0.0022658	mg/L	0.00032779	14.47%
Zn 206.200†	296.5	0.0036569	mg/L	0.00031900	0.0036569	mg/L	0.00031900	8.72%

Sequence No.: 13
Sample ID: AD02671-003 MR
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 42
Date Collected: 2/28/2018 7:07:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02671-003 MR

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sc 361.383	1419612.3	97.0	%	0.30				0.31%
Y 371.029	444709.2	93.7	%	1.32				1.41%
Ag 328.068†	30.4	0.0002262	mg/L	0.00001123	0.0002262	mg/L	0.00001123	4.97%
Al 308.215†	5599.8	0.160746	mg/L	0.0016323	0.160746	mg/L	0.0016323	1.02%
As 188.979†	5.1	0.0039080	mg/L	0.00127733	0.0039080	mg/L	0.00127733	32.69%
Ba 233.527†	3248.1	0.0241321	mg/L	0.00011350	0.0241321	mg/L	0.00011350	0.47%
Be 313.107†	75.9	0.0006654	mg/L	0.00000110	0.0006654	mg/L	0.00000110	0.17%
Ca 315.887†	1777320.6	13.2206	mg/L	0.06057	13.2206	mg/L	0.06057	0.46%
Cd 228.802†	-4.9	0.0007368	mg/L	0.00016468	0.0007368	mg/L	0.00016468	22.35%
Co 228.616†	4.5	-0.0006788	mg/L	0.00005954	-0.0006788	mg/L	0.00005954	8.77%
Cr 267.716†	158.6	0.0009116	mg/L	0.00000365	0.0009116	mg/L	0.00000365	0.40%
Cu 327.393†	159.8	0.0023695	mg/L	0.00003494	0.0023695	mg/L	0.00003494	1.47%
Fe 273.955†	31452.2	0.952065	mg/L	0.0007948	0.952065	mg/L	0.0007948	0.08%
K 404.721†	186.1	2.31602	mg/L	0.424322	2.31602	mg/L	0.424322	18.32%
Mg 279.077†	42590.0	2.00213	mg/L	0.003414	2.00213	mg/L	0.003414	0.17%
Mn 257.610†	359293.0	0.334334	mg/L	0.0017318	0.334334	mg/L	0.0017318	0.52%
Mo 202.031†	14.1	0.0017462	mg/L	0.00000896	0.0017462	mg/L	0.00000896	0.51%
Na 330.237†	121966.8	89.4254	mg/L	0.11420	89.4254	mg/L	0.11420	0.13%
Ni 231.604†	-2.1	-0.0011561	mg/L	0.00032749	-0.0011561	mg/L	0.00032749	28.33%
Pb 220.353†	1.3	0.0008396	mg/L	0.00071255	0.0008396	mg/L	0.00071255	84.86%
Sb 206.836†	2.9	0.0040458	mg/L	0.00112726	0.0040458	mg/L	0.00112726	27.86%
Se 196.026†	3.2	0.0024901	mg/L	0.00356312	0.0024901	mg/L	0.00356312	143.09%
Sn 189.927†	-1.4	0.0000203	mg/L	0.00034575	0.0000203	mg/L	0.00034575	>999.9%
Ti 334.940†	3811.1	0.0048893	mg/L	0.00084023	0.0048893	mg/L	0.00084023	17.19%
Tl 190.801†	-4.0	-0.0028970	mg/L	0.00071384	-0.0028970	mg/L	0.00071384	24.64%
V 290.880†	211.3	0.0015568	mg/L	0.00010056	0.0015568	mg/L	0.00010056	6.46%
Zn 206.200†	170.7	0.0017651	mg/L	0.00015388	0.0017651	mg/L	0.00015388	8.72%

Sequence No.: 14
Sample ID: AD02671-003 MS 1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 43
Date Collected: 2/28/2018 7:10:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02671-003 MS 1

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1402356.5	95.8	%	0.66				0.69%
Y 371.029	440001.9	92.7	%	0.20				0.22%
Ag 328.068†	25826.0	0.0981913	mg/L	0.00123457	0.0981913	mg/L	0.00123457	1.26%
Al 308.215†	191824.9	5.10180	mg/L	0.041126	5.10180	mg/L	0.041126	0.81%
As 188.979†	866.4	0.505364	mg/L	0.0018114	0.505364	mg/L	0.0018114	0.36%
Ba 233.527†	69500.6	0.525795	mg/L	0.0012670	0.525795	mg/L	0.0012670	0.24%
Be 313.107†	1872167.7	0.499237	mg/L	0.0016947	0.499237	mg/L	0.0016947	0.34%
Ca 315.887†	8364709.9	62.3061	mg/L	0.19434	62.3061	mg/L	0.19434	0.31%
Cd 228.802†	32027.0	0.499883	mg/L	0.0033745	0.499883	mg/L	0.0033745	0.68%
Co 228.616†	29013.1	0.505845	mg/L	0.0041881	0.505845	mg/L	0.0041881	0.83%
Cr 267.716†	66096.9	0.501581	mg/L	0.0050177	0.501581	mg/L	0.0050177	1.00%
Cu 327.393†	72272.6	0.509569	mg/L	0.0064899	0.509569	mg/L	0.0064899	1.27%
Fe 273.955†	192800.3	5.85599	mg/L	0.050245	5.85599	mg/L	0.050245	0.86%
K 404.721†	5772.1	52.6204	mg/L	0.41712	52.6204	mg/L	0.41712	0.79%
Mg 279.077†	1071372.5	52.2578	mg/L	0.08227	52.2578	mg/L	0.08227	0.16%
Mn 257.610†	862549.8	0.801150	mg/L	0.0014514	0.801150	mg/L	0.0014514	0.18%
Mo 202.031†	8102.9	0.501347	mg/L	0.0009360	0.501347	mg/L	0.0009360	0.19%
Na 330.237†	196419.3	143.484	mg/L	1.5435	143.484	mg/L	1.5435	1.08%
Ni 231.604†	23318.8	0.505345	mg/L	0.0051748	0.505345	mg/L	0.0051748	1.02%
Pb 220.353†	5116.4	0.498962	mg/L	0.0031863	0.498962	mg/L	0.0031863	0.64%
Sb 206.836†	2004.7	0.502331	mg/L	0.0024148	0.502331	mg/L	0.0024148	0.48%
Se 196.026†	750.8	0.499043	mg/L	0.0067953	0.499043	mg/L	0.0067953	1.36%
Sn 189.927†	2276.6	0.512223	mg/L	0.0021307	0.512223	mg/L	0.0021307	0.42%
Ti 334.940†	528077.9	0.501245	mg/L	0.0022557	0.501245	mg/L	0.0022557	0.45%
Tl 190.801†	806.7	0.496101	mg/L	0.0105169	0.496101	mg/L	0.0105169	2.12%
V 290.880†	102453.3	0.501762	mg/L	0.0041640	0.501762	mg/L	0.0041640	0.83%
Zn 206.200†	33781.2	0.507461	mg/L	0.0038802	0.507461	mg/L	0.0038802	0.76%

Sequence No.: 15
Sample ID: AD02671-003 MS 2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 44
Date Collected: 2/28/2018 7:15:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02671-003 MS 2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1407747.0	96.2	%	0.87				0.91%
Y 371.029	436203.3	91.9	%	1.84				2.00%
Ag 328.068†	26795.4	0.101876	mg/L	0.0005220	0.101876	mg/L	0.0005220	0.51%
Al 308.215†	199533.7	5.30633	mg/L	0.027533	5.30633	mg/L	0.027533	0.52%
As 188.979†	909.3	0.530312	mg/L	0.0071024	0.530312	mg/L	0.0071024	1.34%
Ba 233.527†	72418.9	0.547882	mg/L	0.0003755	0.547882	mg/L	0.0003755	0.07%
Be 313.107†	1924062.9	0.513058	mg/L	0.0014575	0.513058	mg/L	0.0014575	0.28%
Ca 315.887†	8746366.3	65.1500	mg/L	0.03546	65.1500	mg/L	0.03546	0.05%
Cd 228.802†	33365.0	0.520733	mg/L	0.0033159	0.520733	mg/L	0.0033159	0.64%
Co 228.616†	30407.3	0.530210	mg/L	0.0054374	0.530210	mg/L	0.0054374	1.03%
Cr 267.716†	68984.7	0.523522	mg/L	0.0015436	0.523522	mg/L	0.0015436	0.29%
Cu 327.393†	72800.1	0.513397	mg/L	0.0053075	0.513397	mg/L	0.0053075	1.03%
Fe 273.955†	201640.4	6.12467	mg/L	0.018000	6.12467	mg/L	0.018000	0.29%
K 404.721†	6095.4	55.5316	mg/L	0.46590	55.5316	mg/L	0.46590	0.84%
Mg 279.077†	1103843.2	53.8440	mg/L	0.13535	53.8440	mg/L	0.13535	0.25%
Mn 257.610†	901671.2	0.837516	mg/L	0.0028180	0.837516	mg/L	0.0028180	0.34%
Mo 202.031†	8464.6	0.523687	mg/L	0.0015344	0.523687	mg/L	0.0015344	0.29%
Na 330.237†	205839.6	150.324	mg/L	0.8989	150.324	mg/L	0.8989	0.60%
Ni 231.604†	24281.1	0.526247	mg/L	0.0010996	0.526247	mg/L	0.0010996	0.21%
Pb 220.353†	5326.4	0.519414	mg/L	0.0013408	0.519414	mg/L	0.0013408	0.26%
Sb 206.836†	2100.9	0.526247	mg/L	0.0004000	0.526247	mg/L	0.0004000	0.08%
Se 196.026†	792.8	0.526857	mg/L	0.0000143	0.526857	mg/L	0.0000143	0.00%
Sn 189.927†	2357.6	0.530439	mg/L	0.0003568	0.530439	mg/L	0.0003568	0.07%
Ti 334.940†	541315.5	0.513756	mg/L	0.0062345	0.513756	mg/L	0.0062345	1.21%
Tl 190.801†	855.4	0.526129	mg/L	0.0000510	0.526129	mg/L	0.0000510	0.01%
V 290.880†	106867.0	0.523359	mg/L	0.0028017	0.523359	mg/L	0.0028017	0.54%
Zn 206.200†	35387.0	0.531623	mg/L	0.0026151	0.531623	mg/L	0.0026151	0.49%

Sequence No.: 16
Sample ID: AD02671-003 PS
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 45
Date Collected: 2/28/2018 7:21:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02671-003 PS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1416798.3	96.8	%	0.13				0.13%
Y 371.029	440107.9	92.8	%	0.24				0.26%
Ag 328.068†	21008.9	0.0799590	mg/L	0.00050194	0.0799590	mg/L	0.00050194	0.63%
Al 308.215†	195456.0	5.19814	mg/L	0.016212	5.19814	mg/L	0.016212	0.31%
As 188.979†	880.2	0.513428	mg/L	0.0063238	0.513428	mg/L	0.0063238	1.23%
Ba 233.527†	70522.4	0.533525	mg/L	0.0020496	0.533525	mg/L	0.0020496	0.38%
Be 313.107†	1889278.1	0.503794	mg/L	0.0013020	0.503794	mg/L	0.0013020	0.26%
Ca 315.887†	8524327.8	63.4955	mg/L	0.38788	63.4955	mg/L	0.38788	0.61%
Cd 228.802†	32471.6	0.506813	mg/L	0.0009150	0.506813	mg/L	0.0009150	0.18%
Co 228.616†	29639.9	0.516795	mg/L	0.0013964	0.516795	mg/L	0.0013964	0.27%
Cr 267.716†	66990.2	0.508376	mg/L	0.0015708	0.508376	mg/L	0.0015708	0.31%
Cu 327.393†	72445.0	0.510871	mg/L	0.0139372	0.510871	mg/L	0.0139372	2.73%
Fe 273.955†	206362.2	6.26818	mg/L	0.017898	6.26818	mg/L	0.017898	0.29%
K 404.721†	5814.8	53.0048	mg/L	1.21692	53.0048	mg/L	1.21692	2.30%
Mg 279.077†	1073862.1	52.3794	mg/L	0.16410	52.3794	mg/L	0.16410	0.31%
Mn 257.610†	945146.7	0.878039	mg/L	0.0024554	0.878039	mg/L	0.0024554	0.28%
Mo 202.031†	8223.6	0.508802	mg/L	0.0051469	0.508802	mg/L	0.0051469	1.01%
Na 330.237†	207168.4	151.289	mg/L	0.5418	151.289	mg/L	0.5418	0.36%
Ni 231.604†	23694.7	0.513515	mg/L	0.0008477	0.513515	mg/L	0.0008477	0.17%
Pb 220.353†	5192.9	0.506392	mg/L	0.0052646	0.506392	mg/L	0.0052646	1.04%
Sb 206.836†	2044.9	0.512290	mg/L	0.0064899	0.512290	mg/L	0.0064899	1.27%
Se 196.026†	767.8	0.510338	mg/L	0.0061096	0.510338	mg/L	0.0061096	1.20%
Sn 189.927†	2350.7	0.528829	mg/L	0.0053521	0.528829	mg/L	0.0053521	1.01%
Ti 334.940†	533014.5	0.505923	mg/L	0.0009002	0.505923	mg/L	0.0009002	0.18%
Tl 190.801†	826.4	0.508549	mg/L	0.0115739	0.508549	mg/L	0.0115739	2.28%
V 290.880†	103826.7	0.508469	mg/L	0.0018015	0.508469	mg/L	0.0018015	0.35%
Zn 206.200†	34634.6	0.520303	mg/L	0.0001537	0.520303	mg/L	0.0001537	0.03%

Sequence No.: 17
Sample ID: AD02671-003 SD
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 46
Date Collected: 2/28/2018 7:26:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02671-003 SD

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sc 361.383	1519416.9	104	%	0.7				0.63%
Y 371.029	474085.4	99.9	%	0.10				0.10%
Ag 328.068†	27.5	0.0001815	mg/L	0.00003229	0.0001815	mg/L	0.00003229	17.79%
Al 308.215†	1323.7	0.0472907	mg/L	0.00246739	0.0472907	mg/L	0.00246739	5.22%
As 188.979†	5.1	0.0037663	mg/L	0.00010411	0.0037663	mg/L	0.00010411	2.76%
Ba 233.527†	722.3	0.0051354	mg/L	0.00013190	0.0051354	mg/L	0.00013190	2.57%
Be 313.107†	138.2	0.0006837	mg/L	0.00000495	0.0006837	mg/L	0.00000495	0.72%
Ca 315.887†	383833.8	2.83715	mg/L	0.031537	2.83715	mg/L	0.031537	1.11%
Cd 228.802†	4.9	0.0008854	mg/L	0.00003426	0.0008854	mg/L	0.00003426	3.87%
Co 228.616†	3.4	-0.0006752	mg/L	0.00004734	-0.0006752	mg/L	0.00004734	7.01%
Cr 267.716†	62.4	0.0002141	mg/L	0.00002893	0.0002141	mg/L	0.00002893	13.51%
Cu 327.393†	83.2	0.0015172	mg/L	0.00012600	0.0015172	mg/L	0.00012600	8.30%
Fe 273.955†	7962.7	0.238136	mg/L	0.0032218	0.238136	mg/L	0.0032218	1.35%
K 404.721†	55.9	1.14408	mg/L	0.823228	1.14408	mg/L	0.823228	71.96%
Mg 279.077†	9332.6	0.377514	mg/L	0.0057771	0.377514	mg/L	0.0057771	1.53%
Mn 257.610†	83127.9	0.0772950	mg/L	0.00104453	0.0772950	mg/L	0.00104453	1.35%
Mo 202.031†	8.4	0.0013928	mg/L	0.00004946	0.0013928	mg/L	0.00004946	3.55%
Na 330.237†	23031.4	17.5898	mg/L	0.13972	17.5898	mg/L	0.13972	0.79%
Ni 231.604†	9.9	-0.0009048	mg/L	0.00016914	-0.0009048	mg/L	0.00016914	18.69%
Pb 220.353†	9.2	0.0015566	mg/L	0.00064098	0.0015566	mg/L	0.00064098	41.18%
Sb 206.836†	-1.2	0.0031171	mg/L	0.00104077	0.0031171	mg/L	0.00104077	33.39%
Se 196.026†	2.4	0.0024417	mg/L	0.00395506	0.0024417	mg/L	0.00395506	161.98%
Sn 189.927†	20.4	0.0047255	mg/L	0.00024319	0.0047255	mg/L	0.00024319	5.15%
Ti 334.940†	1049.9	0.0023570	mg/L	0.00006479	0.0023570	mg/L	0.00006479	2.75%
Tl 190.801†	-0.9	-0.0021904	mg/L	0.00035043	-0.0021904	mg/L	0.00035043	16.00%
V 290.880†	-52.7	0.0003191	mg/L	0.00005217	0.0003191	mg/L	0.00005217	16.35%
Zn 206.200†	66.0	0.0001907	mg/L	0.00006243	0.0001907	mg/L	0.00006243	32.73%

Sequence No.: 18
Sample ID: CCV V-273563
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/28/2018 7:29:40 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-273563

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1593881.8	109	%	0.1				0.10%
Y 371.029	494316.8	104	%	1.1				1.06%
Ag 328.068†	25036.5	0.0951562	mg/L	0.00065971	0.0951562	mg/L	0.00065971	0.69%
QC value within limits for Ag 328.068 Recovery = 95.16%								
Al 308.215†	179686.1	4.77972	mg/L	0.034562	4.77972	mg/L	0.034562	0.72%
QC value within limits for Al 308.215 Recovery = 95.59%								
As 188.979†	840.3	0.490041	mg/L	0.0021457	0.490041	mg/L	0.0021457	0.44%
QC value within limits for As 188.979 Recovery = 98.01%								
Ba 233.527†	63963.9	0.484007	mg/L	0.0016433	0.484007	mg/L	0.0016433	0.34%
QC value within limits for Ba 233.527 Recovery = 96.80%								
Be 313.107†	1790201.1	0.477404	mg/L	0.0024183	0.477404	mg/L	0.0024183	0.51%
QC value within limits for Be 313.107 Recovery = 95.48%								
Ca 315.887†	6603007.3	49.1789	mg/L	0.25067	49.1789	mg/L	0.25067	0.51%
QC value within limits for Ca 315.887 Recovery = 98.36%								
Cd 228.802†	30785.1	0.480527	mg/L	0.0031773	0.480527	mg/L	0.0031773	0.66%
QC value within limits for Cd 228.802 Recovery = 96.11%								
Co 228.616†	28240.6	0.492384	mg/L	0.0030955	0.492384	mg/L	0.0030955	0.63%
QC value within limits for Co 228.616 Recovery = 98.48%								
Cr 267.716†	65344.9	0.495908	mg/L	0.0025252	0.495908	mg/L	0.0025252	0.51%
QC value within limits for Cr 267.716 Recovery = 99.18%								
Cu 327.393†	68351.6	0.481731	mg/L	0.0018186	0.481731	mg/L	0.0018186	0.38%
QC value within limits for Cu 327.393 Recovery = 96.35%								
Fe 273.955†	162228.3	4.92680	mg/L	0.028687	4.92680	mg/L	0.028687	0.58%
QC value within limits for Fe 273.955 Recovery = 98.54%								
K 404.721†	4969.3	45.3908	mg/L	1.04905	45.3908	mg/L	1.04905	2.31%
QC value within limits for K 404.721 Recovery = 90.78%								
Mg 279.077†	1024427.7	49.9646	mg/L	0.26893	49.9646	mg/L	0.26893	0.54%
QC value within limits for Mg 279.077 Recovery = 99.93%								
Mn 257.610†	524944.7	0.486936	mg/L	0.0025949	0.486936	mg/L	0.0025949	0.53%
QC value within limits for Mn 257.610 Recovery = 97.39%								
Mo 202.031†	7918.3	0.489940	mg/L	0.0012462	0.489940	mg/L	0.0012462	0.25%
QC value within limits for Mo 202.031 Recovery = 97.99%								
Na 330.237†	61562.0	45.5663	mg/L	0.38845	45.5663	mg/L	0.38845	0.85%
QC value within limits for Na 330.237 Recovery = 91.13%								
Ni 231.604†	22819.0	0.494477	mg/L	0.0015896	0.494477	mg/L	0.0015896	0.32%
QC value within limits for Ni 231.604 Recovery = 98.90%								
Pb 220.353†	5066.5	0.494007	mg/L	0.0015790	0.494007	mg/L	0.0015790	0.32%
QC value within limits for Pb 220.353 Recovery = 98.80%								
Sb 206.836†	1944.5	0.487436	mg/L	0.0012397	0.487436	mg/L	0.0012397	0.25%
QC value within limits for Sb 206.836 Recovery = 97.49%								
Se 196.026†	757.9	0.504282	mg/L	0.0004684	0.504282	mg/L	0.0004684	0.09%
QC value within limits for Se 196.026 Recovery = 100.86%								
Sn 189.927†	2242.6	0.504348	mg/L	0.0007089	0.504348	mg/L	0.0007089	0.14%
QC value within limits for Sn 189.927 Recovery = 100.87%								
Ti 334.940†	510564.3	0.484730	mg/L	0.0002585	0.484730	mg/L	0.0002585	0.05%
QC value within limits for Ti 334.940 Recovery = 96.95%								
Tl 190.801†	788.1	0.483229	mg/L	0.0005275	0.483229	mg/L	0.0005275	0.11%
QC value within limits for Tl 190.801 Recovery = 96.65%								
V 290.880†	98689.3	0.483398	mg/L	0.0024557	0.483398	mg/L	0.0024557	0.51%
QC value within limits for V 290.880 Recovery = 96.68%								
Zn 206.200†	33216.1	0.498962	mg/L	0.0024300	0.498962	mg/L	0.0024300	0.49%
QC value within limits for Zn 206.200 Recovery = 99.79%								

All analyte(s) passed QC.

Sequence No.: 19 **Autosampler Location: 5**
Sample ID: LLCCV [aq] V-274418 **Date Collected: 2/28/2018 7:34:45 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LLCCV [aq] V-274418

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	1652613.7	113	%	0.8				0.71%
Y 371.029	529397.2	112	%	0.6				0.52%
Ag 328.068†	5199.3	0.0197803	mg/L	0.00038781	0.0197803	mg/L	0.00038781	1.96%
QC value within limits for Ag 328.068 Recovery = 98.90%								
Al 308.215†	7718.8	0.216971	mg/L	0.0093481	0.216971	mg/L	0.0093481	4.31%
QC value within limits for Al 308.215 Recovery = 108.49%								
As 188.979†	36.5	0.0220996	mg/L	0.00043069	0.0220996	mg/L	0.00043069	1.95%
QC value within limits for As 188.979 Recovery = 110.50%								
Ba 233.527†	6803.3	0.0512139	mg/L	0.00080587	0.0512139	mg/L	0.00080587	1.57%
QC value within limits for Ba 233.527 Recovery = 102.43%								
Be 313.107†	43652.2	0.0122487	mg/L	0.00012914	0.0122487	mg/L	0.00012914	1.05%
QC value within limits for Be 313.107 Recovery = 102.07%								
Ca 315.887†	689023.7	5.11125	mg/L	0.050707	5.11125	mg/L	0.050707	0.99%
QC value within limits for Ca 315.887 Recovery = 102.23%								
Cd 228.802†	751.7	0.0125220	mg/L	0.00000546	0.0125220	mg/L	0.00000546	0.04%
QC value within limits for Cd 228.802 Recovery = 104.35%								
Co 228.616†	1194.4	0.0200726	mg/L	0.00008106	0.0200726	mg/L	0.00008106	0.40%
QC value within limits for Co 228.616 Recovery = 100.36%								
Cr 267.716†	6833.2	0.0516326	mg/L	0.00049310	0.0516326	mg/L	0.00049310	0.96%
QC value within limits for Cr 267.716 Recovery = 103.27%								
Cu 327.393†	7403.8	0.0528871	mg/L	0.00141309	0.0528871	mg/L	0.00141309	2.67%
QC value within limits for Cu 327.393 Recovery = 105.77%								
Fe 273.955†	10368.2	0.311247	mg/L	0.0052552	0.311247	mg/L	0.0052552	1.69%
QC value within limits for Fe 273.955 Recovery = 103.75%								
K 404.721†	469.0	4.86420	mg/L	0.152696	4.86420	mg/L	0.152696	3.14%
QC value within limits for K 404.721 Recovery = 97.28%								
Mg 279.077†	107326.7	5.16449	mg/L	0.058422	5.16449	mg/L	0.058422	1.13%
QC value within limits for Mg 279.077 Recovery = 103.29%								
Mn 257.610†	44516.3	0.0411891	mg/L	0.00051779	0.0411891	mg/L	0.00051779	1.26%
QC value within limits for Mn 257.610 Recovery = 102.97%								
Mo 202.031†	337.9	0.0217388	mg/L	0.00010689	0.0217388	mg/L	0.00010689	0.49%
QC value within limits for Mo 202.031 Recovery = 108.69%								
Na 330.237†	5364.5	4.76212	mg/L	0.000172	4.76212	mg/L	0.000172	0.00%
QC value within limits for Na 330.237 Recovery = 95.24%								
Ni 231.604†	2399.9	0.0509950	mg/L	0.00043462	0.0509950	mg/L	0.00043462	0.85%
QC value within limits for Ni 231.604 Recovery = 101.99%								
Pb 220.353†	147.2	0.0150232	mg/L	0.00032185	0.0150232	mg/L	0.00032185	2.14%
QC value within limits for Pb 220.353 Recovery = 125.19%								
Sb 206.836†	78.3	0.0229815	mg/L	0.00237443	0.0229815	mg/L	0.00237443	10.33%
QC value within limits for Sb 206.836 Recovery = 114.91%								
Se 196.026†	61.7	0.0418911	mg/L	0.00389878	0.0418911	mg/L	0.00389878	9.31%
QC value within limits for Se 196.026 Recovery = 104.73%								
Sn 189.927†	238.1	0.0536476	mg/L	0.00076194	0.0536476	mg/L	0.00076194	1.42%
QC value within limits for Sn 189.927 Recovery = 107.30%								
Ti 334.940†	52589.3	0.0511840	mg/L	0.00098899	0.0511840	mg/L	0.00098899	1.93%
QC value within limits for Ti 334.940 Recovery = 102.37%								
Tl 190.801†	34.1	0.0191398	mg/L	0.00226018	0.0191398	mg/L	0.00226018	11.81%
QC value within limits for Tl 190.801 Recovery = 95.70%								
V 290.880†	10309.2	0.0510148	mg/L	0.00078741	0.0510148	mg/L	0.00078741	1.54%
QC value within limits for V 290.880 Recovery = 102.03%								
Zn 206.200†	3341.5	0.0494768	mg/L	0.00013322	0.0494768	mg/L	0.00013322	0.27%
QC value within limits for Zn 206.200 Recovery = 98.95%								

All analyte(s) passed QC.

Sequence No.: 20 Autosampler Location: 2
Sample ID: CCB Date Collected: 2/28/2018 7:38:16 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sc 361.383	1683649.0	115	%	0.7				0.58%
Y 371.029	543131.7	114	%	1.2				1.06%
Ag 328.068†	-70.3	-0.0002002	mg/L	0.00010807	-0.0002002	mg/L	0.00010807	53.98%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-330.2	0.0034097	mg/L	0.00402587	0.0034097	mg/L	0.00402587	118.07%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	8.1	0.0055100	mg/L	0.00058595	0.0055100	mg/L	0.00058595	10.63%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	15.4	-0.0001818	mg/L	0.00006478	-0.0001818	mg/L	0.00006478	35.62%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-87.0	0.0006244	mg/L	0.00000016	0.0006244	mg/L	0.00000016	0.03%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	86.2	-0.0223220	mg/L	0.00035694	-0.0223220	mg/L	0.00035694	1.60%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 228.802†	-3.0	0.0007611	mg/L	0.00011042	0.0007611	mg/L	0.00011042	14.51%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	4.4	-0.0006485	mg/L	0.00000258	-0.0006485	mg/L	0.00000258	0.40%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	34.6	0.0000120	mg/L	0.00005470	0.0000120	mg/L	0.00005470	456.49%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	14.7	0.0009437	mg/L	0.00047221	0.0009437	mg/L	0.00047221	50.04%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955†	4.9	-0.0037294	mg/L	0.00026948	-0.0037294	mg/L	0.00026948	7.23%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 404.721†	30.0	0.910897	mg/L	0.1680486	0.910897	mg/L	0.1680486	18.45%
QC value within limits for K 404.721 Recovery = Not calculated								
Mg 279.077†	77.3	-0.0746045	mg/L	0.00010005	-0.0746045	mg/L	0.00010005	0.13%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-100.0	-0.0001702	mg/L	0.00000322	-0.0001702	mg/L	0.00000322	1.89%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	8.8	0.0014136	mg/L	0.00003773	0.0014136	mg/L	0.00003773	2.67%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 330.237†	-54.0	0.827764	mg/L	0.0039286	0.827764	mg/L	0.0039286	0.47%
QC value within limits for Na 330.237 Recovery = Not calculated								
Ni 231.604†	21.0	-0.0006685	mg/L	0.00011661	-0.0006685	mg/L	0.00011661	17.44%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	19.1	0.0025112	mg/L	0.00034382	0.0025112	mg/L	0.00034382	13.69%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-14.9	-0.0002687	mg/L	0.00015471	-0.0002687	mg/L	0.00015471	57.58%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	1.6	0.0020246	mg/L	0.00012322	0.0020246	mg/L	0.00012322	6.09%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	12.0	0.0028089	mg/L	0.00023203	0.0028089	mg/L	0.00023203	8.26%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	-124.2	0.0012666	mg/L	0.00000777	0.0012666	mg/L	0.00000777	0.61%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	-5.4	-0.0053521	mg/L	0.00129333	-0.0053521	mg/L	0.00129333	24.17%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	-120.1	0.0000072	mg/L	0.00036188	0.0000072	mg/L	0.00036188	>999.9%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	-75.6	-0.0019394	mg/L	0.00012561	-0.0019394	mg/L	0.00012561	6.48%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 21
Sample ID: AD02771-001
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 50
Date Collected: 2/28/2018 7:41:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02771-001

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1669837.4	114	%	0.9				0.77%
Y 371.029	525059.6	111	%	1.7				1.56%
Ag 328.068†	-55.5	-0.0001037	mg/L	0.00006359	-0.0001037	mg/L	0.00006359	61.30%
Al 308.215†	705.7	0.0308938	mg/L	0.00236622	0.0308938	mg/L	0.00236622	7.66%
As 188.979†	6.9	0.0050187	mg/L	0.00084688	0.0050187	mg/L	0.00084688	16.87%
Ba 233.527†	2502.8	0.0182613	mg/L	0.00017904	0.0182613	mg/L	0.00017904	0.98%
Be 313.107†	-239.5	0.0005770	mg/L	0.00002838	0.0005770	mg/L	0.00002838	4.92%
Ca 315.887†	3722586.8	27.7157	mg/L	0.22971	27.7157	mg/L	0.22971	0.83%
Cd 228.802†	0.6	0.0008211	mg/L	0.00009921	0.0008211	mg/L	0.00009921	12.08%
Co 228.616†	479.4	0.0076218	mg/L	0.00001310	0.0076218	mg/L	0.00001310	0.17%
Cr 267.716†	278.1	0.0017611	mg/L	0.00000807	0.0017611	mg/L	0.00000807	0.46%
Cu 327.393†	-57.3	0.0011609	mg/L	0.00020675	0.0011609	mg/L	0.00020675	17.81%
Fe 273.955†	28412.3	0.859672	mg/L	0.0087749	0.859672	mg/L	0.0087749	1.02%
K 404.721†	202.3	2.46235	mg/L	0.107772	2.46235	mg/L	0.107772	4.38%
Mg 279.077†	100092.8	4.81112	mg/L	0.036833	4.81112	mg/L	0.036833	0.77%
Mn 257.610†	679535.3	0.632366	mg/L	0.0052024	0.632366	mg/L	0.0052024	0.82%
Mo 202.031†	112.2	0.0077988	mg/L	0.00009731	0.0077988	mg/L	0.00009731	1.25%
Na 330.237†	24787.2	18.8647	mg/L	0.15467	18.8647	mg/L	0.15467	0.82%
Ni 231.604†	340.8	0.0062900	mg/L	0.00028795	0.0062900	mg/L	0.00028795	4.58%
Pb 220.353†	23.9	0.0031021	mg/L	0.00022691	0.0031021	mg/L	0.00022691	7.31%
Sb 206.836†	-4.4	0.0021771	mg/L	0.00186534	0.0021771	mg/L	0.00186534	85.68%
Se 196.026†	2.6	0.0010127	mg/L	0.00475991	0.0010127	mg/L	0.00475991	470.01%
Sn 189.927†	2.5	0.0011457	mg/L	0.00081956	0.0011457	mg/L	0.00081956	71.54%
Ti 334.940†	11163.9	0.0117312	mg/L	0.00014793	0.0117312	mg/L	0.00014793	1.26%
Tl 190.801†	-6.8	-0.0030552	mg/L	0.00089773	-0.0030552	mg/L	0.00089773	29.38%
V 290.880†	189.9	0.0014341	mg/L	0.00030423	0.0014341	mg/L	0.00030423	21.21%
Zn 206.200†	212.4	0.0023932	mg/L	0.00014432	0.0023932	mg/L	0.00014432	6.03%

Sequence No.: 22
Sample ID: AD02771-002
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 51
Date Collected: 2/28/2018 7:45:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02771-002

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1673175.2	114	%	0.7				0.58%
Y 371.029	534173.5	113	%	0.7				0.63%
Ag 328.068†	-91.8	-0.0001773	mg/L	0.00021726	-0.0001773	mg/L	0.00021726	122.57%
Al 308.215†	18112.6	0.492746	mg/L	0.0064261	0.492746	mg/L	0.0064261	1.30%
As 188.979†	5.7	0.0045607	mg/L	0.00022710	0.0045607	mg/L	0.00022710	4.98%
Ba 233.527†	3984.3	0.0294849	mg/L	0.00015684	0.0294849	mg/L	0.00015684	0.53%
Be 313.107†	-92.0	0.0006126	mg/L	0.00001106	0.0006126	mg/L	0.00001106	1.81%
Ca 315.887†	3818890.5	28.4333	mg/L	0.20288	28.4333	mg/L	0.20288	0.71%
Cd 228.802†	-2.0	0.0007884	mg/L	0.00004128	0.0007884	mg/L	0.00004128	5.24%
Co 228.616†	323.6	0.0048459	mg/L	0.00002771	0.0048459	mg/L	0.00002771	0.57%
Cr 267.716†	463.2	0.0031757	mg/L	0.00002500	0.0031757	mg/L	0.00002500	0.79%
Cu 327.393†	365.6	0.0043388	mg/L	0.00023318	0.0043388	mg/L	0.00023318	5.37%
Fe 273.955†	73423.9	2.22773	mg/L	0.033220	2.22773	mg/L	0.033220	1.49%
K 404.721†	256.3	2.94809	mg/L	0.594322	2.94809	mg/L	0.594322	20.16%
Mg 279.077†	94143.7	4.52051	mg/L	0.060897	4.52051	mg/L	0.060897	1.35%
Mn 257.610†	412684.8	0.383954	mg/L	0.0030036	0.383954	mg/L	0.0030036	0.78%
Mo 202.031†	44.5	0.0036315	mg/L	0.00063704	0.0036315	mg/L	0.00063704	17.54%
Na 330.237†	12377.2	9.85394	mg/L	0.054686	9.85394	mg/L	0.054686	0.55%
Ni 231.604†	340.9	0.0063123	mg/L	0.00005648	0.0063123	mg/L	0.00005648	0.89%
Pb 220.353†	25.4	0.0032774	mg/L	0.00093984	0.0032774	mg/L	0.00093984	28.68%
Sb 206.836†	-5.7	0.0018166	mg/L	0.00003538	0.0018166	mg/L	0.00003538	1.95%
Se 196.026†	4.0	0.0027551	mg/L	0.00005080	0.0027551	mg/L	0.00005080	1.84%
Sn 189.927†	7.4	0.0022939	mg/L	0.00091272	0.0022939	mg/L	0.00091272	39.79%
Ti 334.940†	17267.8	0.0175381	mg/L	0.00061674	0.0175381	mg/L	0.00061674	3.52%
Tl 190.801†	-10.3	-0.0064486	mg/L	0.00116675	-0.0064486	mg/L	0.00116675	18.09%
V 290.880†	216.1	0.0014868	mg/L	0.00003186	0.0014868	mg/L	0.00003186	2.14%
Zn 206.200†	531.2	0.0071854	mg/L	0.00001300	0.0071854	mg/L	0.00001300	0.18%

Sequence No.: 23
Sample ID: AD02671-001
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 52
Date Collected: 2/28/2018 7:48:53 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02671-001

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1519272.1	104	%	0.7				0.65%
Y 371.029	540592.6	114	%	0.2				0.18%
Ag 328.068†	-801.5	-0.0006459	mg/L	0.00003152	-0.0006459	mg/L	0.00003152	4.88%
Al 308.215†	2010246.5	53.3494	mg/L	0.45569	53.3494	mg/L	0.45569	0.85%
As 188.979†	76.2	0.0574412	mg/L	0.00358598	0.0574412	mg/L	0.00358598	6.24%
Ba 233.527†	10597.5	0.0793661	mg/L	0.00076283	0.0793661	mg/L	0.00076283	0.96%
Be 313.107†	6322.2	0.0021722	mg/L	0.00004552	0.0021722	mg/L	0.00004552	2.10%
Ca 315.887†	6196583.9	46.1505	mg/L	0.32639	46.1505	mg/L	0.32639	0.71%
Cd 228.802†	5.8	0.0011483	mg/L	0.00002568	0.0011483	mg/L	0.00002568	2.24%
Co 228.616†	413.7	0.0042614	mg/L	0.00008115	0.0042614	mg/L	0.00008115	1.90%
Cr 267.716†	6598.9	0.0496020	mg/L	0.00070786	0.0496020	mg/L	0.00070786	1.43%
Cu 327.393†	9027.4	0.0726280	mg/L	0.00163901	0.0726280	mg/L	0.00163901	2.26%
Fe 273.955†	1634586.7	49.6769	mg/L	0.44403	49.6769	mg/L	0.44403	0.89%
K 404.721†	3162.3	29.1180	mg/L	0.29009	29.1180	mg/L	0.29009	1.00%
Mg 279.077†	346250.7	16.8359	mg/L	0.27627	16.8359	mg/L	0.27627	1.64%
Mn 257.610†	891869.9	0.829634	mg/L	0.0059171	0.829634	mg/L	0.0059171	0.71%
Mo 202.031†	-1.1	0.0019914	mg/L	0.00062265	0.0019914	mg/L	0.00062265	31.27%
Na 330.237†	136850.4	100.232	mg/L	1.3165	100.232	mg/L	1.3165	1.31%
Ni 231.604†	480.6	0.0100697	mg/L	0.00008610	0.0100697	mg/L	0.00008610	0.86%
Pb 220.353†	432.1	0.0537425	mg/L	0.00085301	0.0537425	mg/L	0.00085301	1.59%
Sb 206.836†	-0.6	0.0034653	mg/L	0.00098988	0.0034653	mg/L	0.00098988	28.57%
Se 196.026†	-33.0	0.0025191	mg/L	0.00234186	0.0025191	mg/L	0.00234186	92.96%
Sn 189.927†	90.5	0.0227188	mg/L	0.00029687	0.0227188	mg/L	0.00029687	1.31%
Ti 334.940†	267540.6	0.254954	mg/L	0.0141083	0.254954	mg/L	0.0141083	5.53%
Tl 190.801†	3.4	-0.0083409	mg/L	0.00021101	-0.0083409	mg/L	0.00021101	2.53%
V 290.880†	6868.1	0.0313372	mg/L	0.00068263	0.0313372	mg/L	0.00068263	2.18%
Zn 206.200†	2337.1	0.0338196	mg/L	0.00053860	0.0338196	mg/L	0.00053860	1.59%

Sequence No.: 24
Sample ID: AD02671-002
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 53
Date Collected: 2/28/2018 7:53:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02671-002

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1528221.8	104	%	0.6				0.54%
Y 371.029	486828.2	103	%	0.7				0.67%
Ag 328.068†	-100.3	0.0000709	mg/L	0.00002104	0.0000709	mg/L	0.00002104	29.69%
Al 308.215†	82750.6	2.20776	mg/L	0.006236	2.20776	mg/L	0.006236	0.28%
As 188.979†	5.1	0.0050676	mg/L	0.00212669	0.0050676	mg/L	0.00212669	41.97%
Ba 233.527†	6240.6	0.0466611	mg/L	0.00036156	0.0466611	mg/L	0.00036156	0.77%
Be 313.107†	141.0	0.0006459	mg/L	0.00000265	0.0006459	mg/L	0.00000265	0.41%
Ca 315.887†	3228039.1	24.0306	mg/L	0.15576	24.0306	mg/L	0.15576	0.65%
Cd 228.802†	-4.6	0.0007768	mg/L	0.00000939	0.0007768	mg/L	0.00000939	1.21%
Co 228.616†	72.8	0.0002063	mg/L	0.00007768	0.0002063	mg/L	0.00007768	37.66%
Cr 267.716†	423.7	0.0028874	mg/L	0.00008909	0.0028874	mg/L	0.00008909	3.09%
Cu 327.393†	552.7	0.0065593	mg/L	0.00015928	0.0065593	mg/L	0.00015928	2.43%
Fe 273.955†	270453.6	8.21614	mg/L	0.047869	8.21614	mg/L	0.047869	0.58%
K 404.721†	532.4	5.43479	mg/L	0.428024	5.43479	mg/L	0.428024	7.88%
Mg 279.077†	82038.6	3.92918	mg/L	0.017950	3.92918	mg/L	0.017950	0.46%
Mn 257.610†	239348.8	0.222608	mg/L	0.0011652	0.222608	mg/L	0.0011652	0.52%
Mo 202.031†	34.7	0.0030619	mg/L	0.00001065	0.0030619	mg/L	0.00001065	0.35%
Na 330.237†	103208.4	75.8052	mg/L	0.26970	75.8052	mg/L	0.26970	0.36%
Ni 231.604†	90.5	0.0009658	mg/L	0.00011649	0.0009658	mg/L	0.00011649	12.06%
Pb 220.353†	13.8	0.0021912	mg/L	0.00039973	0.0021912	mg/L	0.00039973	18.24%
Sb 206.836†	-0.9	0.0028162	mg/L	0.00109117	0.0028162	mg/L	0.00109117	38.75%
Se 196.026†	5.8	0.0071707	mg/L	0.00166354	0.0071707	mg/L	0.00166354	23.20%
Sn 189.927†	35.0	0.0085698	mg/L	0.00045709	0.0085698	mg/L	0.00045709	5.33%
Ti 334.940†	65404.9	0.0633175	mg/L	0.00046018	0.0633175	mg/L	0.00046018	0.73%
Tl 190.801†	-9.4	-0.0070607	mg/L	0.00173871	-0.0070607	mg/L	0.00173871	24.62%
V 290.880†	1220.6	0.0060832	mg/L	0.00024780	0.0060832	mg/L	0.00024780	4.07%
Zn 206.200†	1400.6	0.0202500	mg/L	0.00028556	0.0202500	mg/L	0.00028556	1.41%

Sequence No.: 25
Sample ID: AD02671-004
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 54
Date Collected: 2/28/2018 7:57:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02671-004

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1503563.9	103	%	0.7				0.70%
Y 371.029	465590.9	98.1	%	1.26				1.29%
Ag 328.068†	-436.3	0.0003484	mg/L	0.00001128	0.0003484	mg/L	0.00001128	3.24%
Al 308.215†	2745.9	0.0850257	mg/L	0.00307388	0.0850257	mg/L	0.00307388	3.62%
As 188.979†	14.8	0.0146818	mg/L	0.00056138	0.0146818	mg/L	0.00056138	3.82%
Ba 233.527†	18562.8	0.139709	mg/L	0.0003831	0.139709	mg/L	0.0003831	0.27%
Be 313.107†	-769.1	0.0004421	mg/L	0.00001242	0.0004421	mg/L	0.00001242	2.81%
Ca 315.887†	6726666.8	50.1004	mg/L	0.11519	50.1004	mg/L	0.11519	0.23%
Cd 228.802†	-28.1	0.0005789	mg/L	0.00000416	0.0005789	mg/L	0.00000416	0.72%
Co 228.616†	300.7	0.0034982	mg/L	0.00003208	0.0034982	mg/L	0.00003208	0.92%
Cr 267.716†	215.1	0.0011892	mg/L	0.00006373	0.0011892	mg/L	0.00006373	5.36%
Cu 327.393†	-840.3	0.0016517	mg/L	0.00005496	0.0016517	mg/L	0.00005496	3.33%
Fe 273.955†	1360817.5	41.3561	mg/L	0.20673	41.3561	mg/L	0.20673	0.50%
K 404.721†	1159.6	11.0828	mg/L	0.13690	11.0828	mg/L	0.13690	1.24%
Mg 279.077†	189070.5	9.15765	mg/L	0.109321	9.15765	mg/L	0.109321	1.19%
Mn 257.610†	1859566.9	1.73076	mg/L	0.004828	1.73076	mg/L	0.004828	0.28%
Mo 202.031†	14.8	0.0017881	mg/L	0.00012833	0.0017881	mg/L	0.00012833	7.18%
Na 330.237†	296533.9	216.176	mg/L	2.1468	216.176	mg/L	2.1468	0.99%
Ni 231.604†	15.4	-0.0001609	mg/L	0.00041519	-0.0001609	mg/L	0.00041519	258.05%
Pb 220.353†	62.3	0.0043388	mg/L	0.00097291	0.0043388	mg/L	0.00097291	22.42%
Sb 206.836†	6.1	0.0019222	mg/L	0.00034373	0.0019222	mg/L	0.00034373	17.88%
Se 196.026†	-15.8	0.0048556	mg/L	0.00017269	0.0048556	mg/L	0.00017269	3.56%
Sn 189.927†	-14.2	-0.0022568	mg/L	0.00163783	-0.0022568	mg/L	0.00163783	72.57%
Ti 334.940†	712.3	0.0015833	mg/L	0.00000734	0.0015833	mg/L	0.00000734	0.46%
Tl 190.801†	-14.9	-0.0059040	mg/L	0.00370161	-0.0059040	mg/L	0.00370161	62.70%
V 290.880†	1208.9	0.0041628	mg/L	0.00035158	0.0041628	mg/L	0.00035158	8.45%
Zn 206.200†	298.7	0.0036910	mg/L	0.00015842	0.0036910	mg/L	0.00015842	4.29%

Sequence No.: 26
Sample ID: AD02671-005
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 55
Date Collected: 2/28/2018 8:00:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02671-005

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1600417.3	109	%	1.6				1.47%
Y 371.029	503787.5	106	%	0.4				0.38%
Ag 328.068†	-329.0	-0.0001213	mg/L	0.00010651	-0.0001213	mg/L	0.00010651	87.81%
Al 308.215†	10127.7	0.280884	mg/L	0.0066551	0.280884	mg/L	0.0066551	2.37%
As 188.979†	61.2	0.0391965	mg/L	0.00082513	0.0391965	mg/L	0.00082513	2.11%
Ba 233.527†	10023.2	0.0751973	mg/L	0.00041394	0.0751973	mg/L	0.00041394	0.55%
Be 313.107†	-409.9	0.0005335	mg/L	0.00001503	0.0005335	mg/L	0.00001503	2.82%
Ca 315.887†	4545495.6	33.8475	mg/L	0.29807	33.8475	mg/L	0.29807	0.88%
Cd 228.802†	-15.7	0.0006769	mg/L	0.00004103	0.0006769	mg/L	0.00004103	6.06%
Co 228.616†	63.7	-0.0001947	mg/L	0.00012825	-0.0001947	mg/L	0.00012825	65.85%
Cr 267.716†	234.6	0.0014531	mg/L	0.00006473	0.0014531	mg/L	0.00006473	4.45%
Cu 327.393†	-325.4	0.0023818	mg/L	0.00068855	0.0023818	mg/L	0.00068855	28.91%
Fe 273.955†	744583.1	22.6266	mg/L	0.23851	22.6266	mg/L	0.23851	1.05%
K 404.721†	1107.1	10.6104	mg/L	0.01913	10.6104	mg/L	0.01913	0.18%
Mg 279.077†	77697.6	3.71712	mg/L	0.008575	3.71712	mg/L	0.008575	0.23%
Mn 257.610†	327515.8	0.304694	mg/L	0.0024568	0.304694	mg/L	0.0024568	0.81%
Mo 202.031†	35.2	0.0030499	mg/L	0.00027144	0.0030499	mg/L	0.00027144	8.90%
Na 330.237†	171141.7	125.131	mg/L	0.2355	125.131	mg/L	0.2355	0.19%
Ni 231.604†	-0.5	-0.0007902	mg/L	0.00015533	-0.0007902	mg/L	0.00015533	19.66%
Pb 220.353†	34.9	0.0028447	mg/L	0.00070729	0.0028447	mg/L	0.00070729	24.86%
Sb 206.836†	1.1	0.0020377	mg/L	0.00109528	0.0020377	mg/L	0.00109528	53.75%
Se 196.026†	-2.5	0.0073498	mg/L	0.00035288	0.0073498	mg/L	0.00035288	4.80%
Sn 189.927†	-1.4	0.0003683	mg/L	0.00007173	0.0003683	mg/L	0.00007173	19.48%
Ti 334.940†	7981.4	0.0087103	mg/L	0.00003994	0.0087103	mg/L	0.00003994	0.46%
Tl 190.801†	-3.0	-0.0035956	mg/L	0.00218981	-0.0035956	mg/L	0.00218981	60.90%
V 290.880†	1276.5	0.0055724	mg/L	0.00011783	0.0055724	mg/L	0.00011783	2.11%
Zn 206.200†	517.5	0.0069826	mg/L	0.00007397	0.0069826	mg/L	0.00007397	1.06%

Sequence No.: 27
Sample ID: AD02799-002
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 56
Date Collected: 2/28/2018 8:04:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02799-002

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1355772.7	92.6	%	0.36				0.39%
Y 371.029	426030.1	89.8	%	1.54				1.71%
Ag 328.068†	-12.1	0.0001957	mg/L	0.00002609	0.0001957	mg/L	0.00002609	13.34%
Al 308.215†	37779.4	1.01456	mg/L	0.010944	1.01456	mg/L	0.010944	1.08%
As 188.979†	-0.4	0.0044854	mg/L	0.00160738	0.0044854	mg/L	0.00160738	35.84%
Ba 233.527†	38806.1	0.291626	mg/L	0.0003829	0.291626	mg/L	0.0003829	0.13%
Be 313.107†	-507.6	0.0004767	mg/L	0.00000583	0.0004767	mg/L	0.00000583	1.22%
Ca 315.887†	20862358.9	155.432	mg/L	1.1410	155.432	mg/L	1.1410	0.73%
Cd 228.802†	4.7	0.0008994	mg/L	0.00009181	0.0008994	mg/L	0.00009181	10.21%
Co 228.616†	91.5	0.0006692	mg/L	0.00014665	0.0006692	mg/L	0.00014665	21.91%
Cr 267.716†	1212.8	0.0061127	mg/L	0.00010174	0.0061127	mg/L	0.00010174	1.66%
Cu 327.393†	882.3	0.0108721	mg/L	0.00005321	0.0108721	mg/L	0.00005321	0.49%
Fe 273.955†	123169.6	3.73967	mg/L	0.002291	3.73967	mg/L	0.002291	0.06%
K 404.721†	4375.2	40.0412	mg/L	0.44366	40.0412	mg/L	0.44366	1.11%
Mg 279.077†	2761340.5	134.812	mg/L	0.0700	134.812	mg/L	0.0700	0.05%
Mn 257.610†	294738.1	0.269780	mg/L	0.0002562	0.269780	mg/L	0.0002562	0.09%
Mo 202.031†	74.8	0.0055127	mg/L	0.00042672	0.0055127	mg/L	0.00042672	7.74%
Na 330.237†	1892041.1	1374.65	mg/L	8.135	1374.65	mg/L	8.135	0.59%
Ni 231.604†	320.7	0.0058977	mg/L	0.00016420	0.0058977	mg/L	0.00016420	2.78%
Pb 220.353†	36.0	0.0051235	mg/L	0.00077623	0.0051235	mg/L	0.00077623	15.15%
Sb 206.836†	-3.7	0.0024089	mg/L	0.00073418	0.0024089	mg/L	0.00073418	30.48%
Se 196.026†	6.2	0.0025444	mg/L	0.00040955	0.0025444	mg/L	0.00040955	16.10%
Sn 189.927†	-25.1	-0.0028232	mg/L	0.00056769	-0.0028232	mg/L	0.00056769	20.11%
Ti 334.940†	59403.3	0.0535211	mg/L	0.00217314	0.0535211	mg/L	0.00217314	4.06%
Tl 190.801†	6.0	-0.0022679	mg/L	0.00146292	-0.0022679	mg/L	0.00146292	64.50%
V 290.880†	1540.7	0.0065851	mg/L	0.00025301	0.0065851	mg/L	0.00025301	3.84%
Zn 206.200†	4859.9	0.0723157	mg/L	0.00057965	0.0723157	mg/L	0.00057965	0.80%

Sequence No.: 28
Sample ID: ICSA V-273217
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/28/2018 8:08:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-273217

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sc 361.383	1441840.8	98.5	%	0.59				0.60%
Y 371.029	438887.6	92.5	%	0.78				0.85%
Ag 328.068†	-2200.5	-0.0000656	mg/L	0.00017221	-0.0000656	mg/L	0.00017221	262.47%
Al 308.215†	17904056.0	475.055	mg/L	2.3532	475.055	mg/L	2.3532	0.50%
QC value within limits for Al 308.215 Recovery = 95.01%								
As 188.979†	-79.9	0.0404964	mg/L	0.00402522	0.0404964	mg/L	0.00402522	9.94%
Ba 233.527†	927.2	-0.0000763	mg/L	0.00008587	-0.0000763	mg/L	0.00008587	112.61%
Be 313.107†	-3886.2	-0.0004000	mg/L	0.00000324	-0.0004000	mg/L	0.00000324	0.81%
Ca 315.887†	60489651.5	450.712	mg/L	2.7232	450.712	mg/L	2.7232	0.60%
QC value within limits for Ca 315.887 Recovery = 90.14%								
Cd 228.802†	-219.1	-0.0017215	mg/L	0.00014731	-0.0017215	mg/L	0.00014731	8.56%
Co 228.616†	236.7	-0.0058789	mg/L	0.00004214	-0.0058789	mg/L	0.00004214	0.72%
Cr 267.716†	819.6	-0.0040108	mg/L	0.00003600	-0.0040108	mg/L	0.00003600	0.90%
Cu 327.393†	-5279.6	-0.0028499	mg/L	0.00021848	-0.0028499	mg/L	0.00021848	7.67%
Fe 273.955†	5769431.5	175.349	mg/L	0.0780	175.349	mg/L	0.0780	0.04%
QC value within limits for Fe 273.955 Recovery = 87.67%								
K 404.721†	-461.7	-3.51718	mg/L	1.390235	-3.51718	mg/L	1.390235	39.53%
Mg 279.077†	9636587.5	470.666	mg/L	2.9057	470.666	mg/L	2.9057	0.62%
QC value within limits for Mg 279.077 Recovery = 94.13%								
Mn 257.610†	23466.3	0.0059700	mg/L	0.00005420	0.0059700	mg/L	0.00005420	0.91%
Mo 202.031†	-283.5	-0.0060324	mg/L	0.00063895	-0.0060324	mg/L	0.00063895	10.59%
Na 330.237†	-14.0	0.856833	mg/L	0.0583147	0.856833	mg/L	0.0583147	6.81%
Ni 231.604†	99.0	0.0036974	mg/L	0.00009578	0.0036974	mg/L	0.00009578	2.59%
Pb 220.353†	-1135.2	0.0073070	mg/L	0.00104775	0.0073070	mg/L	0.00104775	14.34%
Sb 206.836†	-42.5	0.0095963	mg/L	0.00011372	0.0095963	mg/L	0.00011372	1.19%
Se 196.026†	-191.5	-0.0202731	mg/L	0.00883180	-0.0202731	mg/L	0.00883180	43.56%
Sn 189.927†	-106.9	-0.0093544	mg/L	0.00077039	-0.0093544	mg/L	0.00077039	8.24%
Ti 334.940†	19799.9	0.0055935	mg/L	0.00004570	0.0055935	mg/L	0.00004570	0.82%
Tl 190.801†	106.2	-0.0616586	mg/L	0.00505110	-0.0616586	mg/L	0.00505110	8.19%
V 290.880†	1940.7	-0.0042133	mg/L	0.00068144	-0.0042133	mg/L	0.00068144	16.17%
Zn 206.200†	1204.7	0.0124629	mg/L	0.00010709	0.0124629	mg/L	0.00010709	0.86%

All analyte(s) passed QC.

Sequence No.: 29
Sample ID: ICSAB V-273219
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/28/2018 8:13:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-273219

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Calib Std.Dev.	Sample Conc.	Units	Sample Std.Dev.	RSD
Sc 361.383	1448847.4	99.0	%	0.17				0.18%
Y 371.029	444043.9	93.6	%	0.23				0.25%
Ag 328.068†	274732.9	1.04928	mg/L	0.001115	1.04928	mg/L	0.001115	0.11%
QC value within limits for Ag 328.068 Recovery = 104.93%								
Al 308.215†	17752631.3	471.037	mg/L	3.2699	471.037	mg/L	3.2699	0.69%
QC value within limits for Al 308.215 Recovery = 94.21%								
As 188.979†	1621.6	1.02742	mg/L	0.007877	1.02742	mg/L	0.007877	0.77%
QC value within limits for As 188.979 Recovery = 102.74%								
Ba 233.527†	65625.7	0.490585	mg/L	0.0016663	0.490585	mg/L	0.0016663	0.34%
QC value within limits for Ba 233.527 Recovery = 98.12%								
Be 313.107†	1792102.5	0.478205	mg/L	0.0010813	0.478205	mg/L	0.0010813	0.23%
QC value within limits for Be 313.107 Recovery = 95.64%								
Ca 315.887†	60126040.6	448.002	mg/L	2.4466	448.002	mg/L	2.4466	0.55%
QC value within limits for Ca 315.887 Recovery = 89.60%								
Cd 228.802†	63684.9	0.994041	mg/L	0.0002715	0.994041	mg/L	0.0002715	0.03%
QC value within limits for Cd 228.802 Recovery = 99.40%								
Co 228.616†	25964.0	0.444300	mg/L	0.0015950	0.444300	mg/L	0.0015950	0.36%
QC value within limits for Co 228.616 Recovery = 88.86%								
Cr 267.716†	63204.9	0.470753	mg/L	0.0011915	0.470753	mg/L	0.0011915	0.25%
QC value within limits for Cr 267.716 Recovery = 94.15%								
Cu 327.393†	68036.5	0.509303	mg/L	0.0055370	0.509303	mg/L	0.0055370	1.09%
QC value within limits for Cu 327.393 Recovery = 101.86%								
Fe 273.955†	5830512.1	177.206	mg/L	0.0725	177.206	mg/L	0.0725	0.04%
QC value within limits for Fe 273.955 Recovery = 88.60%								
K 404.721†	-430.8	-3.23917	mg/L	0.796380	-3.23917	mg/L	0.796380	24.59%
Mg 279.077†	9576771.8	467.744	mg/L	2.5972	467.744	mg/L	2.5972	0.56%
QC value within limits for Mg 279.077 Recovery = 93.55%								
Mn 257.610†	533320.2	0.480712	mg/L	0.0004893	0.480712	mg/L	0.0004893	0.10%
QC value within limits for Mn 257.610 Recovery = 96.14%								
Mo 202.031†	-293.9	-0.0067636	mg/L	0.00014812	-0.0067636	mg/L	0.00014812	2.19%
Na 330.237†	279.5	1.06994	mg/L	0.019026	1.06994	mg/L	0.019026	1.78%
Ni 231.604†	41046.1	0.892913	mg/L	0.0024224	0.892913	mg/L	0.0024224	0.27%
QC value within limits for Ni 231.604 Recovery = 89.29%								
Pb 220.353†	8374.8	0.929257	mg/L	0.0014560	0.929257	mg/L	0.0014560	0.16%
QC value within limits for Pb 220.353 Recovery = 92.93%								
Sb 206.836†	3942.8	1.00023	mg/L	0.007030	1.00023	mg/L	0.007030	0.70%
QC value within limits for Sb 206.836 Recovery = 100.02%								
Se 196.026†	1326.0	0.985854	mg/L	0.0051222	0.985854	mg/L	0.0051222	0.52%
QC value within limits for Se 196.026 Recovery = 98.59%								
Sn 189.927†	-104.3	-0.0088757	mg/L	0.00015277	-0.0088757	mg/L	0.00015277	1.72%
Ti 334.940†	20062.9	0.0059341	mg/L	0.00001758	0.0059341	mg/L	0.00001758	0.30%
Tl 190.801†	1559.0	0.831211	mg/L	0.0162268	0.831211	mg/L	0.0162268	1.95%
QC value within limits for Tl 190.801 Recovery = 83.12%								
V 290.880†	98010.5	0.466058	mg/L	0.0000104	0.466058	mg/L	0.0000104	0.00%
QC value within limits for V 290.880 Recovery = 93.21%								
Zn 206.200†	62763.3	0.938795	mg/L	0.0009194	0.938795	mg/L	0.0009194	0.10%
QC value within limits for Zn 206.200 Recovery = 93.88%								

All analyte(s) passed QC.

Sequence No.: 30
Sample ID: CCV V-273563
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/28/2018 8:19:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-273563

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1417038.0	96.8	%	0.05				0.05%
Y 371.029	440986.8	93.0	%	0.09				0.09%
Ag 328.068†	25269.8	0.0960392	mg/L	0.00074760	0.0960392	mg/L	0.00074760	0.78%
QC value within limits for Ag 328.068 Recovery = 96.04%								
Al 308.215†	181035.9	4.81554	mg/L	0.059664	4.81554	mg/L	0.059664	1.24%
QC value within limits for Al 308.215 Recovery = 96.31%								
As 188.979†	826.5	0.482020	mg/L	0.0012567	0.482020	mg/L	0.0012567	0.26%
QC value within limits for As 188.979 Recovery = 96.40%								
Ba 233.527†	63961.5	0.483978	mg/L	0.0071063	0.483978	mg/L	0.0071063	1.47%
QC value within limits for Ba 233.527 Recovery = 96.80%								
Be 313.107†	1811093.7	0.482967	mg/L	0.0020807	0.482967	mg/L	0.0020807	0.43%
QC value within limits for Be 313.107 Recovery = 96.59%								
Ca 315.887†	6700316.2	49.9040	mg/L	0.23810	49.9040	mg/L	0.23810	0.48%
QC value within limits for Ca 315.887 Recovery = 99.81%								
Cd 228.802†	30693.2	0.479096	mg/L	0.0036227	0.479096	mg/L	0.0036227	0.76%
QC value within limits for Cd 228.802 Recovery = 95.82%								
Co 228.616†	27951.0	0.487305	mg/L	0.0029789	0.487305	mg/L	0.0029789	0.61%
QC value within limits for Co 228.616 Recovery = 97.46%								
Cr 267.716†	65074.3	0.493846	mg/L	0.0047623	0.493846	mg/L	0.0047623	0.96%
QC value within limits for Cr 267.716 Recovery = 98.77%								
Cu 327.393†	69073.6	0.486814	mg/L	0.0117005	0.486814	mg/L	0.0117005	2.40%
QC value within limits for Cu 327.393 Recovery = 97.36%								
Fe 273.955†	161622.5	4.90839	mg/L	0.058089	4.90839	mg/L	0.058089	1.18%
QC value within limits for Fe 273.955 Recovery = 98.17%								
K 404.721†	5126.5	46.8070	mg/L	1.78178	46.8070	mg/L	1.78178	3.81%
QC value within limits for K 404.721 Recovery = 93.61%								
Mg 279.077†	1027602.7	50.1197	mg/L	0.24737	50.1197	mg/L	0.24737	0.49%
QC value within limits for Mg 279.077 Recovery = 100.24%								
Mn 257.610†	529346.8	0.491029	mg/L	0.0022171	0.491029	mg/L	0.0022171	0.45%
QC value within limits for Mn 257.610 Recovery = 98.21%								
Mo 202.031†	7955.4	0.492231	mg/L	0.0023281	0.492231	mg/L	0.0023281	0.47%
QC value within limits for Mo 202.031 Recovery = 98.45%								
Na 330.237†	62412.4	46.1838	mg/L	0.46612	46.1838	mg/L	0.46612	1.01%
QC value within limits for Na 330.237 Recovery = 92.37%								
Ni 231.604†	22612.4	0.489990	mg/L	0.0057504	0.489990	mg/L	0.0057504	1.17%
QC value within limits for Ni 231.604 Recovery = 98.00%								
Pb 220.353†	5048.2	0.492246	mg/L	0.0020526	0.492246	mg/L	0.0020526	0.42%
QC value within limits for Pb 220.353 Recovery = 98.45%								
Sb 206.836†	1944.7	0.487497	mg/L	0.0028274	0.487497	mg/L	0.0028274	0.58%
QC value within limits for Sb 206.836 Recovery = 97.50%								
Se 196.026†	736.1	0.489764	mg/L	0.0042623	0.489764	mg/L	0.0042623	0.87%
QC value within limits for Se 196.026 Recovery = 97.95%								
Sn 189.927†	2183.1	0.491074	mg/L	0.0035445	0.491074	mg/L	0.0035445	0.72%
QC value within limits for Sn 189.927 Recovery = 98.21%								
Ti 334.940†	518388.0	0.492156	mg/L	0.0018719	0.492156	mg/L	0.0018719	0.38%
QC value within limits for Ti 334.940 Recovery = 98.43%								
Tl 190.801†	782.0	0.479548	mg/L	0.0008675	0.479548	mg/L	0.0008675	0.18%
QC value within limits for Tl 190.801 Recovery = 95.91%								
V 290.880†	98598.1	0.482953	mg/L	0.0052981	0.482953	mg/L	0.0052981	1.10%
QC value within limits for V 290.880 Recovery = 96.59%								
Zn 206.200†	32600.8	0.489703	mg/L	0.0039062	0.489703	mg/L	0.0039062	0.80%
QC value within limits for Zn 206.200 Recovery = 97.94%								

All analyte(s) passed QC.

Sequence No.: 31
Sample ID: LLCCV [aq] V-274418
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/28/2018 8:24:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV [aq] V-274418

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1528219.1	104	%	1.1				1.09%
Y 371.029	481143.8	101	%	1.8				1.77%
Ag 328.068†	5228.7	0.0198913	mg/L	0.00009391	0.0198913	mg/L	0.00009391	0.47%
QC value within limits for Ag 328.068 Recovery = 99.46%								
Al 308.215†	7478.7	0.210598	mg/L	0.0011105	0.210598	mg/L	0.0011105	0.53%
QC value within limits for Al 308.215 Recovery = 105.30%								
As 188.979†	35.7	0.0216775	mg/L	0.00117461	0.0216775	mg/L	0.00117461	5.42%
QC value within limits for As 188.979 Recovery = 108.39%								
Ba 233.527†	6613.0	0.0497716	mg/L	0.00042178	0.0497716	mg/L	0.00042178	0.85%
QC value within limits for Ba 233.527 Recovery = 99.54%								
Be 313.107†	43476.2	0.0122021	mg/L	0.00004527	0.0122021	mg/L	0.00004527	0.37%
QC value within limits for Be 313.107 Recovery = 101.68%								
Ca 315.887†	682202.2	5.06042	mg/L	0.022616	5.06042	mg/L	0.022616	0.45%
QC value within limits for Ca 315.887 Recovery = 101.21%								
Cd 228.802†	728.9	0.0121664	mg/L	0.00003973	0.0121664	mg/L	0.00003973	0.33%
QC value within limits for Cd 228.802 Recovery = 101.39%								
Co 228.616†	1169.7	0.0196423	mg/L	0.00025184	0.0196423	mg/L	0.00025184	1.28%
QC value within limits for Co 228.616 Recovery = 98.21%								
Cr 267.716†	6660.6	0.0503207	mg/L	0.00041045	0.0503207	mg/L	0.00041045	0.82%
QC value within limits for Cr 267.716 Recovery = 100.64%								
Cu 327.393†	7170.9	0.0512565	mg/L	0.00045270	0.0512565	mg/L	0.00045270	0.88%
QC value within limits for Cu 327.393 Recovery = 102.51%								
Fe 273.955†	10208.3	0.306389	mg/L	0.0010616	0.306389	mg/L	0.0010616	0.35%
QC value within limits for Fe 273.955 Recovery = 102.13%								
K 404.721†	488.1	5.03608	mg/L	0.063197	5.03608	mg/L	0.063197	1.25%
QC value within limits for K 404.721 Recovery = 100.72%								
Mg 279.077†	106207.1	5.10980	mg/L	0.020382	5.10980	mg/L	0.020382	0.40%
QC value within limits for Mg 279.077 Recovery = 102.20%								
Mn 257.610†	43763.8	0.0404904	mg/L	0.00023010	0.0404904	mg/L	0.00023010	0.57%
QC value within limits for Mn 257.610 Recovery = 101.23%								
Mo 202.031†	323.3	0.0208389	mg/L	0.00034169	0.0208389	mg/L	0.00034169	1.64%
QC value within limits for Mo 202.031 Recovery = 104.19%								
Na 330.237†	5378.4	4.77217	mg/L	0.001505	4.77217	mg/L	0.001505	0.03%
QC value within limits for Na 330.237 Recovery = 95.44%								
Ni 231.604†	2303.6	0.0489050	mg/L	0.00020545	0.0489050	mg/L	0.00020545	0.42%
QC value within limits for Ni 231.604 Recovery = 97.81%								
Pb 220.353†	128.5	0.0132054	mg/L	0.00004258	0.0132054	mg/L	0.00004258	0.32%
QC value within limits for Pb 220.353 Recovery = 110.04%								
Sb 206.836†	76.8	0.0226199	mg/L	0.00029999	0.0226199	mg/L	0.00029999	1.33%
QC value within limits for Sb 206.836 Recovery = 113.10%								
Se 196.026†	64.3	0.0436234	mg/L	0.00055090	0.0436234	mg/L	0.00055090	1.26%
QC value within limits for Se 196.026 Recovery = 109.06%								
Sn 189.927†	228.8	0.0515478	mg/L	0.00074466	0.0515478	mg/L	0.00074466	1.44%
QC value within limits for Sn 189.927 Recovery = 103.10%								
Ti 334.940†	51989.0	0.0506158	mg/L	0.00021726	0.0506158	mg/L	0.00021726	0.43%
QC value within limits for Ti 334.940 Recovery = 101.23%								
Tl 190.801†	33.2	0.0186109	mg/L	0.00089894	0.0186109	mg/L	0.00089894	4.83%
QC value within limits for Tl 190.801 Recovery = 93.05%								
V 290.880†	10168.5	0.0503259	mg/L	0.00028020	0.0503259	mg/L	0.00028020	0.56%
QC value within limits for V 290.880 Recovery = 100.65%								
Zn 206.200†	3255.3	0.0481797	mg/L	0.00070038	0.0481797	mg/L	0.00070038	1.45%
QC value within limits for Zn 206.200 Recovery = 96.36%								

All analyte(s) passed QC.

Sequence No.: 32
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 2/28/2018 8:27:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1546525.4	106	%	0.3				0.24%
Y 371.029	503684.3	106	%	1.1				1.03%
Ag 328.068†	-16.3	0.0000045	mg/L	0.00023936	0.0000045	mg/L	0.00023936	>999.9%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-30.2	0.0113673	mg/L	0.00454141	0.0113673	mg/L	0.00454141	39.95%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	5.7	0.0041066	mg/L	0.00018722	0.0041066	mg/L	0.00018722	4.56%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	7.0	-0.0002461	mg/L	0.00005077	-0.0002461	mg/L	0.00005077	20.63%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	74.1	0.0006671	mg/L	0.00000807	0.0006671	mg/L	0.00000807	1.21%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	26.2	-0.0227692	mg/L	0.00011750	-0.0227692	mg/L	0.00011750	0.52%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 228.802†	-1.1	0.0007911	mg/L	0.00001435	0.0007911	mg/L	0.00001435	1.81%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	0.2	-0.0007230	mg/L	0.00010540	-0.0007230	mg/L	0.00010540	14.58%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-16.4	-0.0003759	mg/L	0.00010601	-0.0003759	mg/L	0.00010601	28.20%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	37.1	0.0011015	mg/L	0.00024484	0.0011015	mg/L	0.00024484	22.23%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955†	84.4	-0.0013130	mg/L	0.00049646	-0.0013130	mg/L	0.00049646	37.81%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 404.721†	45.8	1.05242	mg/L	0.679333	1.05242	mg/L	0.679333	64.55%
QC value within limits for K 404.721 Recovery = Not calculated								
Mg 279.077†	132.4	-0.0719119	mg/L	0.00062898	-0.0719119	mg/L	0.00062898	0.87%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	5.5	-0.0000720	mg/L	0.00002271	-0.0000720	mg/L	0.00002271	31.52%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	3.8	0.0011052	mg/L	0.00020718	0.0011052	mg/L	0.00020718	18.75%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 330.237†	-6.7	0.862118	mg/L	0.0333926	0.862118	mg/L	0.0333926	3.87%
QC value within limits for Na 330.237 Recovery = Not calculated								
Ni 231.604†	10.0	-0.0009075	mg/L	0.00009922	-0.0009075	mg/L	0.00009922	10.93%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	2.7	0.0009196	mg/L	0.00040797	0.0009196	mg/L	0.00040797	44.36%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-3.7	0.0025197	mg/L	0.00038829	0.0025197	mg/L	0.00038829	15.41%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-0.4	0.0006847	mg/L	0.00019220	0.0006847	mg/L	0.00019220	28.07%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	9.1	0.0021492	mg/L	0.00061182	0.0021492	mg/L	0.00061182	28.47%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	146.6	0.0015240	mg/L	0.00023337	0.0015240	mg/L	0.00023337	15.31%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	-2.9	-0.0038115	mg/L	0.00055502	-0.0038115	mg/L	0.00055502	14.56%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	-78.6	0.0002099	mg/L	0.00013125	0.0002099	mg/L	0.00013125	62.53%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	-64.0	-0.0017654	mg/L	0.00005123	-0.0017654	mg/L	0.00005123	2.90%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 33
Sample ID: AD02668-001
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 57
Date Collected: 2/28/2018 8:31:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02668-001

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1465265.9	100	%	0.3				0.26%
Y 371.029	470942.1	99.3	%	0.47				0.47%
Ag 328.068†	-5.5	0.0000467	mg/L	0.00010252	0.0000467	mg/L	0.00010252	219.52%
Al 308.215†	1774.3	0.0592475	mg/L	0.00080105	0.0592475	mg/L	0.00080105	1.35%
As 188.979†	1.4	0.0021360	mg/L	0.00018766	0.0021360	mg/L	0.00018766	8.79%
Ba 233.527†	770.9	0.0045335	mg/L	0.00005551	0.0045335	mg/L	0.00005551	1.22%
Be 313.107†	-262.5	0.0005770	mg/L	0.00000745	0.0005770	mg/L	0.00000745	1.29%
Ca 315.887†	9004209.7	67.0713	mg/L	1.08573	67.0713	mg/L	1.08573	1.62%
Cd 228.802†	-2.8	0.0007645	mg/L	0.00006952	0.0007645	mg/L	0.00006952	9.09%
Co 228.616†	2.3	-0.0006895	mg/L	0.00002970	-0.0006895	mg/L	0.00002970	4.31%
Cr 267.716†	313.8	0.0017002	mg/L	0.00001272	0.0017002	mg/L	0.00001272	0.75%
Cu 327.393†	-259.5	0.0003881	mg/L	0.00002036	0.0003881	mg/L	0.00002036	5.25%
Fe 273.955†	944.5	0.0248280	mg/L	0.00131136	0.0248280	mg/L	0.00131136	5.28%
K 404.721†	1444.6	13.6494	mg/L	0.11494	13.6494	mg/L	0.11494	0.84%
Mg 279.077†	420821.9	20.4786	mg/L	0.02320	20.4786	mg/L	0.02320	0.11%
Mn 257.610†	5174.3	0.0040501	mg/L	0.00004300	0.0040501	mg/L	0.00004300	1.06%
Mo 202.031†	50.6	0.0039943	mg/L	0.00027378	0.0039943	mg/L	0.00027378	6.85%
Na 330.237†	307783.1	224.344	mg/L	1.1195	224.344	mg/L	1.1195	0.50%
Ni 231.604†	-1.9	-0.0011655	mg/L	0.00001802	-0.0011655	mg/L	0.00001802	1.55%
Pb 220.353†	-9.3	0.0001730	mg/L	0.00121222	0.0001730	mg/L	0.00121222	700.59%
Sb 206.836†	-1.3	0.0028927	mg/L	0.00183109	0.0028927	mg/L	0.00183109	63.30%
Se 196.026†	12.7	0.0061207	mg/L	0.00164860	0.0061207	mg/L	0.00164860	26.93%
Sn 189.927†	-10.1	-0.0010702	mg/L	0.00000747	-0.0010702	mg/L	0.00000747	0.70%
Ti 334.940†	883.7	0.0013651	mg/L	0.00000822	0.0013651	mg/L	0.00000822	0.60%
Tl 190.801†	-4.2	-0.0044550	mg/L	0.00388223	-0.0044550	mg/L	0.00388223	87.14%
V 290.880†	665.9	0.0036496	mg/L	0.00053783	0.0036496	mg/L	0.00053783	14.74%
Zn 206.200†	200.3	0.0022110	mg/L	0.00010804	0.0022110	mg/L	0.00010804	4.89%

Sequence No.: 34
Sample ID: AD02668-002
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 58
Date Collected: 2/28/2018 8:34:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02668-002

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1501299.3	103	%	0.2				0.21%
Y 371.029	472448.4	99.6	%	1.94				1.95%
Ag 328.068†	-49.9	-0.0000537	mg/L	0.00003103	-0.0000537	mg/L	0.00003103	57.78%
Al 308.215†	23539.8	0.636744	mg/L	0.0039141	0.636744	mg/L	0.0039141	0.61%
As 188.979†	4.2	0.0037871	mg/L	0.00192237	0.0037871	mg/L	0.00192237	50.76%
Ba 233.527†	454.5	0.0025990	mg/L	0.00002349	0.0025990	mg/L	0.00002349	0.90%
Be 313.107†	-85.3	0.0006066	mg/L	0.00000119	0.0006066	mg/L	0.00000119	0.20%
Ca 315.887†	4876709.0	36.3155	mg/L	0.21206	36.3155	mg/L	0.21206	0.58%
Cd 228.802†	2.8	0.0008582	mg/L	0.00002568	0.0008582	mg/L	0.00002568	2.99%
Co 228.616†	21.0	-0.0004542	mg/L	0.00002786	-0.0004542	mg/L	0.00002786	6.13%
Cr 267.716†	689.4	0.0047053	mg/L	0.00015204	0.0047053	mg/L	0.00015204	3.23%
Cu 327.393†	1171.8	0.0100729	mg/L	0.00011394	0.0100729	mg/L	0.00011394	1.13%
Fe 273.955†	48526.8	1.47102	mg/L	0.002712	1.47102	mg/L	0.002712	0.18%
K 404.721†	759.9	7.48347	mg/L	0.028353	7.48347	mg/L	0.028353	0.38%
Mg 279.077†	279094.3	13.5553	mg/L	0.04994	13.5553	mg/L	0.04994	0.37%
Mn 257.610†	10813.1	0.0095319	mg/L	0.00004499	0.0095319	mg/L	0.00004499	0.47%
Mo 202.031†	38.7	0.0032729	mg/L	0.00041360	0.0032729	mg/L	0.00041360	12.64%
Na 330.237†	128908.8	94.4659	mg/L	0.05346	94.4659	mg/L	0.05346	0.06%
Ni 231.604†	33.1	-0.0003835	mg/L	0.00005686	-0.0003835	mg/L	0.00005686	14.82%
Pb 220.353†	68.0	0.0075445	mg/L	0.00013488	0.0075445	mg/L	0.00013488	1.79%
Sb 206.836†	-1.9	0.0028408	mg/L	0.00117867	0.0028408	mg/L	0.00117867	41.49%
Se 196.026†	9.7	0.0063923	mg/L	0.00183239	0.0063923	mg/L	0.00183239	28.67%
Sn 189.927†	124.0	0.0285461	mg/L	0.00086871	0.0285461	mg/L	0.00086871	3.04%
Ti 334.940†	30311.9	0.0296567	mg/L	0.00084657	0.0296567	mg/L	0.00084657	2.85%
Tl 190.801†	0.1	-0.0020285	mg/L	0.00155425	-0.0020285	mg/L	0.00155425	76.62%
V 290.880†	741.6	0.0040104	mg/L	0.00042460	0.0040104	mg/L	0.00042460	10.59%
Zn 206.200†	4690.6	0.0697729	mg/L	0.00048630	0.0697729	mg/L	0.00048630	0.70%

Sequence No.: 35
Sample ID: AD02668-003
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 59
Date Collected: 2/28/2018 8:38:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02668-003

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1442292.9	98.5	%	5.09				5.16%
Y 371.029	447535.3	94.3	%	5.20				5.52%
Ag 328.068†	-67.7	-0.0000581	mg/L	0.00009718	-0.0000581	mg/L	0.00009718	167.15%
Al 308.215†	11852.9	0.326660	mg/L	0.0109606	0.326660	mg/L	0.0109606	3.36%
As 188.979†	2.6	0.0031727	mg/L	0.00052917	0.0031727	mg/L	0.00052917	16.68%
Ba 233.527†	3186.7	0.0231235	mg/L	0.00031643	0.0231235	mg/L	0.00031643	1.37%
Be 313.107†	-169.9	0.0005959	mg/L	0.00000374	0.0005959	mg/L	0.00000374	0.63%
Ca 315.887†	6598788.8	49.1475	mg/L	0.16801	49.1475	mg/L	0.16801	0.34%
Cd 228.802†	1.3	0.0008428	mg/L	0.00006454	0.0008428	mg/L	0.00006454	7.66%
Co 228.616†	9.9	-0.0006454	mg/L	0.00037947	-0.0006454	mg/L	0.00037947	58.80%
Cr 267.716†	418.7	0.0024980	mg/L	0.00000283	0.0024980	mg/L	0.00000283	0.11%
Cu 327.393†	62.2	0.0026932	mg/L	0.00023075	0.0026932	mg/L	0.00023075	8.57%
Fe 273.955†	92888.7	2.81933	mg/L	0.003475	2.81933	mg/L	0.003475	0.12%
K 404.721†	1507.2	14.2133	mg/L	0.30279	14.2133	mg/L	0.30279	2.13%
Mg 279.077†	421001.3	20.4874	mg/L	0.06510	20.4874	mg/L	0.06510	0.32%
Mn 257.610†	76467.2	0.0704192	mg/L	0.00018793	0.0704192	mg/L	0.00018793	0.27%
Mo 202.031†	45.9	0.0037103	mg/L	0.00007940	0.0037103	mg/L	0.00007940	2.14%
Na 330.237†	1399264.7	1016.85	mg/L	12.757	1016.85	mg/L	12.757	1.25%
Ni 231.604†	11.9	-0.0008227	mg/L	0.00005997	-0.0008227	mg/L	0.00005997	7.29%
Pb 220.353†	27.3	0.0035023	mg/L	0.00114726	0.0035023	mg/L	0.00114726	32.76%
Sb 206.836†	-1.8	0.0027004	mg/L	0.00015509	0.0027004	mg/L	0.00015509	5.74%
Se 196.026†	8.7	0.0058002	mg/L	0.00050734	0.0058002	mg/L	0.00050734	8.75%
Sn 189.927†	72.3	0.0171151	mg/L	0.00051189	0.0171151	mg/L	0.00051189	2.99%
Ti 334.940†	10546.2	0.0106300	mg/L	0.00011119	0.0106300	mg/L	0.00011119	1.05%
Tl 190.801†	-1.1	-0.0028118	mg/L	0.00640907	-0.0028118	mg/L	0.00640907	227.94%
V 290.880†	1002.2	0.0051436	mg/L	0.00124612	0.0051436	mg/L	0.00124612	24.23%
Zn 206.200†	2470.8	0.0363742	mg/L	0.00097910	0.0363742	mg/L	0.00097910	2.69%

Sequence No.: 36
Sample ID: AD02668-004
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 60
Date Collected: 2/28/2018 8:42:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02668-004

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1775402.1	121	%	0.4				0.32%
Y 371.029	549009.5	116	%	0.6				0.52%
Ag 328.068†	-176.8	-0.0005205	mg/L	0.00002102	-0.0005205	mg/L	0.00002102	4.04%
Al 308.215†	11406.7	0.314820	mg/L	0.0008254	0.314820	mg/L	0.0008254	0.26%
As 188.979†	9.2	0.0066638	mg/L	0.00090896	0.0066638	mg/L	0.00090896	13.64%
Ba 233.527†	509.9	0.0031737	mg/L	0.00005573	0.0031737	mg/L	0.00005573	1.76%
Be 313.107†	-274.6	0.0005644	mg/L	0.00002470	0.0005644	mg/L	0.00002470	4.38%
Ca 315.887†	3499435.7	26.0529	mg/L	0.19034	26.0529	mg/L	0.19034	0.73%
Cd 228.802†	-8.0	0.0006913	mg/L	0.00000977	0.0006913	mg/L	0.00000977	1.41%
Co 228.616†	17.1	-0.0005037	mg/L	0.00002181	-0.0005037	mg/L	0.00002181	4.33%
Cr 267.716†	650.6	0.0044774	mg/L	0.00001280	0.0044774	mg/L	0.00001280	0.29%
Cu 327.393†	1470.9	0.0119443	mg/L	0.00001188	0.0119443	mg/L	0.00001188	0.10%
Fe 273.955†	58498.3	1.77409	mg/L	0.008384	1.77409	mg/L	0.008384	0.47%
K 404.721†	606.6	6.10274	mg/L	0.121617	6.10274	mg/L	0.121617	1.99%
Mg 279.077†	213737.9	10.3626	mg/L	0.03819	10.3626	mg/L	0.03819	0.37%
Mn 257.610†	32818.1	0.0301244	mg/L	0.00016532	0.0301244	mg/L	0.00016532	0.55%
Mo 202.031†	41.0	0.0034062	mg/L	0.00044775	0.0034062	mg/L	0.00044775	13.15%
Na 330.237†	115728.8	84.8961	mg/L	0.26336	84.8961	mg/L	0.26336	0.31%
Ni 231.604†	57.9	0.0001603	mg/L	0.00015526	0.0001603	mg/L	0.00015526	96.85%
Pb 220.353†	53.2	0.0059460	mg/L	0.00010925	0.0059460	mg/L	0.00010925	1.84%
Sb 206.836†	-5.3	0.0019636	mg/L	0.00014207	0.0019636	mg/L	0.00014207	7.24%
Se 196.026†	6.2	0.0046912	mg/L	0.00413885	0.0046912	mg/L	0.00413885	88.23%
Sn 189.927†	20.8	0.0052344	mg/L	0.00036988	0.0052344	mg/L	0.00036988	7.07%
Ti 334.940†	16597.1	0.0167565	mg/L	0.00028198	0.0167565	mg/L	0.00028198	1.68%
Tl 190.801†	-0.5	-0.0023868	mg/L	0.00052579	-0.0023868	mg/L	0.00052579	22.03%
V 290.880†	550.0	0.0030877	mg/L	0.00017035	0.0030877	mg/L	0.00017035	5.52%
Zn 206.200†	2296.7	0.0337535	mg/L	0.00016274	0.0337535	mg/L	0.00016274	0.48%

Sequence No.: 37
Sample ID: AD02668-005
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 61
Date Collected: 2/28/2018 8:45:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02668-005

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1682182.9	115	%	0.6				0.54%
Y 371.029	524300.4	111	%	1.4				1.24%
Ag 328.068†	-141.2	-0.0004651	mg/L	0.00002765	-0.0004651	mg/L	0.00002765	5.95%
Al 308.215†	2598.3	0.0811084	mg/L	0.00436291	0.0811084	mg/L	0.00436291	5.38%
As 188.979†	5.3	0.0048785	mg/L	0.00127160	0.0048785	mg/L	0.00127160	26.07%
Ba 233.527†	2381.3	0.0166026	mg/L	0.00012900	0.0166026	mg/L	0.00012900	0.78%
Be 313.107†	-494.2	0.0005117	mg/L	0.00000521	0.0005117	mg/L	0.00000521	1.02%
Ca 315.887†	10273784.8	76.5315	mg/L	0.33209	76.5315	mg/L	0.33209	0.43%
Cd 228.802†	3.3	0.0008596	mg/L	0.00008278	0.0008596	mg/L	0.00008278	9.63%
Co 228.616†	0.5	-0.0007325	mg/L	0.00005141	-0.0007325	mg/L	0.00005141	7.02%
Cr 267.716†	497.8	0.0027112	mg/L	0.00014175	0.0027112	mg/L	0.00014175	5.23%
Cu 327.393†	-244.7	0.0007121	mg/L	0.00046593	0.0007121	mg/L	0.00046593	65.43%
Fe 273.955†	2680.1	0.0775800	mg/L	0.00222528	0.0775800	mg/L	0.00222528	2.87%
K 404.721†	1989.6	18.5572	mg/L	0.28691	18.5572	mg/L	0.28691	1.55%
Mg 279.077†	795496.7	38.7814	mg/L	0.18271	38.7814	mg/L	0.18271	0.47%
Mn 257.610†	104138.5	0.0955657	mg/L	0.00046505	0.0955657	mg/L	0.00046505	0.49%
Mo 202.031†	44.6	0.0036281	mg/L	0.00014379	0.0036281	mg/L	0.00014379	3.96%
Na 330.237†	434355.0	316.246	mg/L	1.2925	316.246	mg/L	1.2925	0.41%
Ni 231.604†	1.9	-0.0010828	mg/L	0.00017794	-0.0010828	mg/L	0.00017794	16.43%
Pb 220.353†	11.5	0.0022511	mg/L	0.00057588	0.0022511	mg/L	0.00057588	25.58%
Sb 206.836†	-7.5	0.0013992	mg/L	0.00066677	0.0013992	mg/L	0.00066677	47.66%
Se 196.026†	8.1	0.0031606	mg/L	0.00142104	0.0031606	mg/L	0.00142104	44.96%
Sn 189.927†	16.3	0.0050124	mg/L	0.00076154	0.0050124	mg/L	0.00076154	15.19%
Ti 334.940†	6797.9	0.0064543	mg/L	0.00010328	0.0064543	mg/L	0.00010328	1.60%
Tl 190.801†	-3.5	-0.0045027	mg/L	0.00161141	-0.0045027	mg/L	0.00161141	35.79%
V 290.880†	833.7	0.0042848	mg/L	0.00040547	0.0042848	mg/L	0.00040547	9.46%
Zn 206.200†	121.5	0.0010257	mg/L	0.00010820	0.0010257	mg/L	0.00010820	10.55%

Sequence No.: 38
Sample ID: AD02668-006
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 62
Date Collected: 2/28/2018 8:49:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02668-006

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1736493.5	119	%	1.0				0.87%
Y 371.029	542978.0	114	%	2.7				2.35%
Ag 328.068†	-178.2	-0.0005615	mg/L	0.00002641	-0.0005615	mg/L	0.00002641	4.70%
Al 308.215†	4201.3	0.123640	mg/L	0.0054224	0.123640	mg/L	0.0054224	4.39%
As 188.979†	2.6	0.0030225	mg/L	0.00081322	0.0030225	mg/L	0.00081322	26.91%
Ba 233.527†	1853.4	0.0131703	mg/L	0.00008035	0.0131703	mg/L	0.00008035	0.61%
Be 313.107†	-310.9	0.0005626	mg/L	0.00001235	0.0005626	mg/L	0.00001235	2.19%
Ca 315.887†	5202199.1	38.7409	mg/L	0.21053	38.7409	mg/L	0.21053	0.54%
Cd 228.802†	-11.9	0.0006268	mg/L	0.00001353	0.0006268	mg/L	0.00001353	2.16%
Co 228.616†	8.6	-0.0006087	mg/L	0.00016003	-0.0006087	mg/L	0.00016003	26.29%
Cr 267.716†	521.6	0.0032119	mg/L	0.00004864	0.0032119	mg/L	0.00004864	1.51%
Cu 327.393†	-39.0	0.0015025	mg/L	0.00031747	0.0015025	mg/L	0.00031747	21.13%
Fe 273.955†	33412.5	1.01164	mg/L	0.015600	1.01164	mg/L	0.015600	1.54%
K 404.721†	1304.2	12.3848	mg/L	0.66960	12.3848	mg/L	0.66960	5.41%
Mg 279.077†	487727.1	23.7469	mg/L	0.12058	23.7469	mg/L	0.12058	0.51%
Mn 257.610†	62096.2	0.0569313	mg/L	0.00065983	0.0569313	mg/L	0.00065983	1.16%
Mo 202.031†	49.4	0.0039235	mg/L	0.00003219	0.0039235	mg/L	0.00003219	0.82%
Na 330.237†	249981.9	182.375	mg/L	2.1512	182.375	mg/L	2.1512	1.18%
Ni 231.604†	24.6	-0.0005753	mg/L	0.00008817	-0.0005753	mg/L	0.00008817	15.33%
Pb 220.353†	29.0	0.0036700	mg/L	0.00066905	0.0036700	mg/L	0.00066905	18.23%
Sb 206.836†	-9.5	0.0009564	mg/L	0.00012389	0.0009564	mg/L	0.00012389	12.95%
Se 196.026†	5.6	0.0036974	mg/L	0.00185816	0.0036974	mg/L	0.00185816	50.26%
Sn 189.927†	2.8	0.0013862	mg/L	0.00092207	0.0013862	mg/L	0.00092207	66.52%
Ti 334.940†	3472.0	0.0038690	mg/L	0.00006129	0.0038690	mg/L	0.00006129	1.58%
Tl 190.801†	-4.3	-0.0051480	mg/L	0.00042226	-0.0051480	mg/L	0.00042226	8.20%
V 290.880†	832.2	0.0043772	mg/L	0.00027528	0.0043772	mg/L	0.00027528	6.29%
Zn 206.200†	244.6	0.0028775	mg/L	0.00000922	0.0028775	mg/L	0.00000922	0.32%

Sequence No.: 39
Sample ID: AD02668-007
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 63
Date Collected: 2/28/2018 8:52:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02668-007

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1740506.0	119	%	0.0				0.02%
Y 371.029	555136.3	117	%	0.1				0.10%
Ag 328.068†	-467.1	-0.0004595	mg/L	0.00006665	-0.0004595	mg/L	0.00006665	14.50%
Al 308.215†	513383.4	13.6336	mg/L	0.20346	13.6336	mg/L	0.20346	1.49%
As 188.979†	21.1	0.0180367	mg/L	0.00145428	0.0180367	mg/L	0.00145428	8.06%
Ba 233.527†	4813.1	0.0354501	mg/L	0.00090107	0.0354501	mg/L	0.00090107	2.54%
Be 313.107†	762.1	0.0006801	mg/L	0.00001610	0.0006801	mg/L	0.00001610	2.37%
Ca 315.887†	6655529.6	49.5703	mg/L	0.22232	49.5703	mg/L	0.22232	0.45%
Cd 228.802†	-35.2	0.0003939	mg/L	0.00013582	0.0003939	mg/L	0.00013582	34.48%
Co 228.616†	99.2	-0.0002867	mg/L	0.00005059	-0.0002867	mg/L	0.00005059	17.65%
Cr 267.716†	2285.7	0.0169459	mg/L	0.00024344	0.0169459	mg/L	0.00024344	1.44%
Cu 327.393†	341.9	0.0089496	mg/L	0.00008503	0.0089496	mg/L	0.00008503	0.95%
Fe 273.955†	874637.5	26.5794	mg/L	0.07247	26.5794	mg/L	0.07247	0.27%
K 404.721†	918.0	8.90704	mg/L	0.400514	8.90704	mg/L	0.400514	4.50%
Mg 279.077†	188078.2	9.10918	mg/L	0.041855	9.10918	mg/L	0.041855	0.46%
Mn 257.610†	69748.2	0.0645462	mg/L	0.00022797	0.0645462	mg/L	0.00022797	0.35%
Mo 202.031†	40.7	0.0036849	mg/L	0.00005474	0.0036849	mg/L	0.00005474	1.49%
Na 330.237†	93832.8	68.9977	mg/L	0.23407	68.9977	mg/L	0.23407	0.34%
Ni 231.604†	199.8	0.0036188	mg/L	0.00026311	0.0036188	mg/L	0.00026311	7.27%
Pb 220.353†	56.7	0.0083337	mg/L	0.00003210	0.0083337	mg/L	0.00003210	0.39%
Sb 206.836†	-2.6	0.0021348	mg/L	0.00017783	0.0021348	mg/L	0.00017783	8.33%
Se 196.026†	-11.6	0.0035414	mg/L	0.00498597	0.0035414	mg/L	0.00498597	140.79%
Sn 189.927†	-9.3	-0.0001009	mg/L	0.00063221	-0.0001009	mg/L	0.00063221	626.84%
Ti 334.940†	284825.8	0.271568	mg/L	0.0049911	0.271568	mg/L	0.0049911	1.84%
Tl 190.801†	-6.0	-0.0074527	mg/L	0.00018734	-0.0074527	mg/L	0.00018734	2.51%
V 290.880†	5172.4	0.0243763	mg/L	0.00006253	0.0243763	mg/L	0.00006253	0.26%
Zn 206.200†	1049.0	0.0148427	mg/L	0.00014491	0.0148427	mg/L	0.00014491	0.98%

Sequence No.: 40
Sample ID: ICSA V-273217
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/28/2018 8:57:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-273217

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1504414.1	103	%	0.2				0.16%
Y 371.029	467084.2	98.5	%	0.47				0.47%
Ag 328.068†	-2207.9	-0.0001348	mg/L	0.00026011	-0.0001348	mg/L	0.00026011	193.00%
Al 308.215†	17535272.4	465.270	mg/L	2.0153	465.270	mg/L	2.0153	0.43%
QC value within limits for Al 308.215 Recovery = 93.05%								
As 188.979†	-76.8	0.0409630	mg/L	0.00210430	0.0409630	mg/L	0.00210430	5.14%
Ba 233.527†	908.4	-0.0001535	mg/L	0.00008375	-0.0001535	mg/L	0.00008375	54.57%
Be 313.107†	-3980.2	-0.0004251	mg/L	0.00000832	-0.0004251	mg/L	0.00000832	1.96%
Ca 315.887†	59908208.8	446.379	mg/L	1.8445	446.379	mg/L	1.8445	0.41%
QC value within limits for Ca 315.887 Recovery = 89.28%								
Cd 228.802†	-213.9	-0.0016447	mg/L	0.00002104	-0.0016447	mg/L	0.00002104	1.28%
Co 228.616†	255.9	-0.0054207	mg/L	0.00003528	-0.0054207	mg/L	0.00003528	0.65%
Cr 267.716†	820.7	-0.0039020	mg/L	0.00002494	-0.0039020	mg/L	0.00002494	0.64%
Cu 327.393†	-5297.3	-0.0031811	mg/L	0.00042928	-0.0031811	mg/L	0.00042928	13.49%
Fe 273.955†	5740503.0	174.470	mg/L	0.2087	174.470	mg/L	0.2087	0.12%
QC value within limits for Fe 273.955 Recovery = 87.23%								
K 404.721†	-503.0	-3.88911	mg/L	0.193684	-3.88911	mg/L	0.193684	4.98%
Mg 279.077†	9539775.9	465.937	mg/L	2.2007	465.937	mg/L	2.2007	0.47%
QC value within limits for Mg 279.077 Recovery = 93.19%								
Mn 257.610†	23279.5	0.0059548	mg/L	0.00010662	0.0059548	mg/L	0.00010662	1.79%
Mo 202.031†	-284.5	-0.0063089	mg/L	0.00000251	-0.0063089	mg/L	0.00000251	0.04%
Na 330.237†	-185.1	0.732596	mg/L	0.0282971	0.732596	mg/L	0.0282971	3.86%
Ni 231.604†	118.4	0.0041044	mg/L	0.00009492	0.0041044	mg/L	0.00009492	2.31%
Pb 220.353†	-1158.6	0.0024759	mg/L	0.00063875	0.0024759	mg/L	0.00063875	25.80%
Sb 206.836†	-46.0	0.0082081	mg/L	0.00033340	0.0082081	mg/L	0.00033340	4.06%
Se 196.026†	-192.0	-0.0216478	mg/L	0.00224483	-0.0216478	mg/L	0.00224483	10.37%
Sn 189.927†	-101.4	-0.0083341	mg/L	0.00064851	-0.0083341	mg/L	0.00064851	7.78%
Ti 334.940†	19890.7	0.0058258	mg/L	0.00029404	0.0058258	mg/L	0.00029404	5.05%
Tl 190.801†	100.0	-0.0632343	mg/L	0.00010045	-0.0632343	mg/L	0.00010045	0.16%
V 290.880†	1774.1	-0.0049339	mg/L	0.00000699	-0.0049339	mg/L	0.00000699	0.14%
Zn 206.200†	1180.7	0.0122013	mg/L	0.00027547	0.0122013	mg/L	0.00027547	2.26%

All analyte(s) passed QC.

Sequence No.: 41
Sample ID: ICSAB V-273219
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/28/2018 9:03:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-273219

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	1522826.1	104	%	0.5				0.49%
Y 371.029	468900.7	98.8	%	0.23				0.23%
Ag 328.068†	271964.8	1.03874	mg/L	0.004366	1.03874	mg/L	0.004366	0.42%
QC value within limits for Ag 328.068 Recovery = 103.87%								
Al 308.215†	17604947.4	467.119	mg/L	0.3743	467.119	mg/L	0.3743	0.08%
QC value within limits for Al 308.215 Recovery = 93.42%								
As 188.979†	1632.9	1.03338	mg/L	0.005885	1.03338	mg/L	0.005885	0.57%
QC value within limits for As 188.979 Recovery = 103.34%								
Ba 233.527†	65609.3	0.490471	mg/L	0.0032520	0.490471	mg/L	0.0032520	0.66%
QC value within limits for Ba 233.527 Recovery = 98.09%								
Be 313.107†	1785072.5	0.476331	mg/L	0.0001770	0.476331	mg/L	0.0001770	0.04%
QC value within limits for Be 313.107 Recovery = 95.27%								
Ca 315.887†	60034095.3	447.317	mg/L	0.2436	447.317	mg/L	0.2436	0.05%
QC value within limits for Ca 315.887 Recovery = 89.46%								
Cd 228.802†	63262.5	0.987454	mg/L	0.0041556	0.987454	mg/L	0.0041556	0.42%
QC value within limits for Cd 228.802 Recovery = 98.75%								
Co 228.616†	25932.7	0.443821	mg/L	0.0001739	0.443821	mg/L	0.0001739	0.04%
QC value within limits for Co 228.616 Recovery = 88.76%								
Cr 267.716†	62805.2	0.467707	mg/L	0.0020430	0.467707	mg/L	0.0020430	0.44%
QC value within limits for Cr 267.716 Recovery = 93.54%								
Cu 327.393†	68017.2	0.508999	mg/L	0.0058703	0.508999	mg/L	0.0058703	1.15%
QC value within limits for Cu 327.393 Recovery = 101.80%								
Fe 273.955†	5793330.5	176.075	mg/L	0.1523	176.075	mg/L	0.1523	0.09%
QC value within limits for Fe 273.955 Recovery = 88.04%								
K 404.721†	-468.0	-3.57400	mg/L	0.143212	-3.57400	mg/L	0.143212	4.01%
Mg 279.077†	9581227.5	467.962	mg/L	0.3517	467.962	mg/L	0.3517	0.08%
QC value within limits for Mg 279.077 Recovery = 93.59%								
Mn 257.610†	531811.3	0.479300	mg/L	0.0018703	0.479300	mg/L	0.0018703	0.39%
QC value within limits for Mn 257.610 Recovery = 95.86%								
Mo 202.031†	-287.8	-0.0064756	mg/L	0.00015010	-0.0064756	mg/L	0.00015010	2.32%
Na 330.237†	132.4	0.963137	mg/L	0.0441224	0.963137	mg/L	0.0441224	4.58%
Ni 231.604†	40894.4	0.889602	mg/L	0.0022950	0.889602	mg/L	0.0022950	0.26%
QC value within limits for Ni 231.604 Recovery = 88.96%								
Pb 220.353†	8354.2	0.926289	mg/L	0.0015697	0.926289	mg/L	0.0015697	0.17%
QC value within limits for Pb 220.353 Recovery = 92.63%								
Sb 206.836†	3943.8	1.00032	mg/L	0.000685	1.00032	mg/L	0.000685	0.07%
QC value within limits for Sb 206.836 Recovery = 100.03%								
Se 196.026†	1308.3	0.973376	mg/L	0.0105370	0.973376	mg/L	0.0105370	1.08%
QC value within limits for Se 196.026 Recovery = 97.34%								
Sn 189.927†	-99.0	-0.0077696	mg/L	0.00124684	-0.0077696	mg/L	0.00124684	16.05%
Ti 334.940†	19932.9	0.0058077	mg/L	0.00014321	0.0058077	mg/L	0.00014321	2.47%
Tl 190.801†	1542.1	0.821681	mg/L	0.0037148	0.821681	mg/L	0.0037148	0.45%
QC value within limits for Tl 190.801 Recovery = 82.17%								
V 290.880†	97379.7	0.463030	mg/L	0.0029926	0.463030	mg/L	0.0029926	0.65%
QC value within limits for V 290.880 Recovery = 92.61%								
Zn 206.200†	62799.3	0.939377	mg/L	0.0034310	0.939377	mg/L	0.0034310	0.37%
QC value within limits for Zn 206.200 Recovery = 93.94%								

All analyte(s) passed QC.

Sequence No.: 42 Autosampler Location: 6
Sample ID: CCV V-273563 Date Collected: 2/28/2018 9:09:10 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: CCV V-273563

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sc 361.383	1657878.7	113	%	0.3				0.29%
Y 371.029	511657.9	108	%	0.4				0.41%
Ag 328.068†	24645.2	0.0936718	mg/L	0.00026237	0.0936718	mg/L	0.00026237	0.28%
QC value within limits for Ag 328.068 Recovery = 93.67%								
Al 308.215†	176610.1	4.69811	mg/L	0.008241	4.69811	mg/L	0.008241	0.18%
QC value within limits for Al 308.215 Recovery = 93.96%								
As 188.979†	831.7	0.485003	mg/L	0.0000301	0.485003	mg/L	0.0000301	0.01%
QC value within limits for As 188.979 Recovery = 97.00%								
Ba 233.527†	63230.5	0.478452	mg/L	0.0026379	0.478452	mg/L	0.0026379	0.55%
QC value within limits for Ba 233.527 Recovery = 95.69%								
Be 313.107†	1779269.5	0.474493	mg/L	0.0015029	0.474493	mg/L	0.0015029	0.32%
QC value within limits for Be 313.107 Recovery = 94.90%								
Ca 315.887†	6547199.9	48.7631	mg/L	0.20534	48.7631	mg/L	0.20534	0.42%
QC value within limits for Ca 315.887 Recovery = 97.53%								
Cd 228.802†	30380.6	0.474224	mg/L	0.0016300	0.474224	mg/L	0.0016300	0.34%
QC value within limits for Cd 228.802 Recovery = 94.84%								
Co 228.616†	27628.1	0.481673	mg/L	0.0023928	0.481673	mg/L	0.0023928	0.50%
QC value within limits for Co 228.616 Recovery = 96.33%								
Cr 267.716†	64565.8	0.489989	mg/L	0.0027731	0.489989	mg/L	0.0027731	0.57%
QC value within limits for Cr 267.716 Recovery = 98.00%								
Cu 327.393†	67975.8	0.479083	mg/L	0.0010480	0.479083	mg/L	0.0010480	0.22%
QC value within limits for Cu 327.393 Recovery = 95.82%								
Fe 273.955†	160795.5	4.88325	mg/L	0.017934	4.88325	mg/L	0.017934	0.37%
QC value within limits for Fe 273.955 Recovery = 97.67%								
K 404.721†	4846.4	44.2845	mg/L	0.33599	44.2845	mg/L	0.33599	0.76%
QC value less than the lower limit for K 404.721 Recovery = 88.57%								
Mg 279.077†	1015854.0	49.5458	mg/L	0.07290	49.5458	mg/L	0.07290	0.15%
QC value within limits for Mg 279.077 Recovery = 99.09%								
Mn 257.610†	521371.9	0.483624	mg/L	0.0009039	0.483624	mg/L	0.0009039	0.19%
QC value within limits for Mn 257.610 Recovery = 96.72%								
Mo 202.031†	7883.8	0.487806	mg/L	0.0024910	0.487806	mg/L	0.0024910	0.51%
QC value within limits for Mo 202.031 Recovery = 97.56%								
Na 330.237†	60635.8	44.8938	mg/L	0.06745	44.8938	mg/L	0.06745	0.15%
QC value less than the lower limit for Na 330.237 Recovery = 89.79%								
Ni 231.604†	22324.9	0.483748	mg/L	0.0010524	0.483748	mg/L	0.0010524	0.22%
QC value within limits for Ni 231.604 Recovery = 96.75%								
Pb 220.353†	5091.8	0.496440	mg/L	0.0011690	0.496440	mg/L	0.0011690	0.24%
QC value within limits for Pb 220.353 Recovery = 99.29%								
Sb 206.836†	1929.8	0.483764	mg/L	0.0025097	0.483764	mg/L	0.0025097	0.52%
QC value within limits for Sb 206.836 Recovery = 96.75%								
Se 196.026†	748.1	0.497787	mg/L	0.0050862	0.497787	mg/L	0.0050862	1.02%
QC value within limits for Se 196.026 Recovery = 99.56%								
Sn 189.927†	2191.6	0.492911	mg/L	0.0032046	0.492911	mg/L	0.0032046	0.65%
QC value within limits for Sn 189.927 Recovery = 98.58%								
Ti 334.940†	507939.3	0.482250	mg/L	0.0023023	0.482250	mg/L	0.0023023	0.48%
QC value within limits for Ti 334.940 Recovery = 96.45%								
Tl 190.801†	774.7	0.474995	mg/L	0.0053664	0.474995	mg/L	0.0053664	1.13%
QC value within limits for Tl 190.801 Recovery = 95.00%								
V 290.880†	97530.3	0.477729	mg/L	0.0011437	0.477729	mg/L	0.0011437	0.24%
QC value within limits for V 290.880 Recovery = 95.55%								
Zn 206.200†	32646.5	0.490392	mg/L	0.0005025	0.490392	mg/L	0.0005025	0.10%
QC value within limits for Zn 206.200 Recovery = 98.08%								

QC Failed. Continue with analysis.

Sequence No.: 43
Sample ID: LLCCV [aq] V-274418
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/28/2018 9:14:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV [aq] V-274418

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sc 361.383	1742549.6	119	%	0.6				0.46%
Y 371.029	547020.4	115	%	2.1				1.85%
Ag 328.068†	5023.4	0.0191135	mg/L	0.00021186	0.0191135	mg/L	0.00021186	1.11%
QC value within limits for Ag 328.068 Recovery = 95.57%								
Al 308.215†	7228.8	0.203968	mg/L	0.0031822	0.203968	mg/L	0.0031822	1.56%
QC value within limits for Al 308.215 Recovery = 101.98%								
As 188.979†	38.1	0.0230698	mg/L	0.00030564	0.0230698	mg/L	0.00030564	1.32%
QC value within limits for As 188.979 Recovery = 115.35%								
Ba 233.527†	6570.0	0.0494456	mg/L	0.00035368	0.0494456	mg/L	0.00035368	0.72%
QC value within limits for Ba 233.527 Recovery = 98.89%								
Be 313.107†	43015.3	0.0120794	mg/L	0.00024617	0.0120794	mg/L	0.00024617	2.04%
QC value within limits for Be 313.107 Recovery = 100.66%								
Ca 315.887†	680808.5	5.05004	mg/L	0.034876	5.05004	mg/L	0.034876	0.69%
QC value within limits for Ca 315.887 Recovery = 101.00%								
Cd 228.802†	728.3	0.0121578	mg/L	0.00009423	0.0121578	mg/L	0.00009423	0.78%
QC value within limits for Cd 228.802 Recovery = 101.32%								
Co 228.616†	1158.6	0.0194491	mg/L	0.00004346	0.0194491	mg/L	0.00004346	0.22%
QC value within limits for Co 228.616 Recovery = 97.25%								
Cr 267.716†	6705.0	0.0506588	mg/L	0.00123138	0.0506588	mg/L	0.00123138	2.43%
QC value within limits for Cr 267.716 Recovery = 101.32%								
Cu 327.393†	7319.0	0.0522896	mg/L	0.00043091	0.0522896	mg/L	0.00043091	0.82%
QC value within limits for Cu 327.393 Recovery = 104.58%								
Fe 273.955†	10234.1	0.307172	mg/L	0.0073335	0.307172	mg/L	0.0073335	2.39%
QC value within limits for Fe 273.955 Recovery = 102.39%								
K 404.721†	472.0	4.89049	mg/L	0.140926	4.89049	mg/L	0.140926	2.88%
QC value within limits for K 404.721 Recovery = 97.81%								
Mg 279.077†	105614.0	5.08083	mg/L	0.097944	5.08083	mg/L	0.097944	1.93%
QC value within limits for Mg 279.077 Recovery = 101.62%								
Mn 257.610†	43532.4	0.0402760	mg/L	0.00072000	0.0402760	mg/L	0.00072000	1.79%
QC value within limits for Mn 257.610 Recovery = 100.69%								
Mo 202.031†	329.0	0.0211918	mg/L	0.00005365	0.0211918	mg/L	0.00005365	0.25%
QC value within limits for Mo 202.031 Recovery = 105.96%								
Na 330.237†	5103.2	4.57238	mg/L	0.041723	4.57238	mg/L	0.041723	0.91%
QC value within limits for Na 330.237 Recovery = 91.45%								
Ni 231.604†	2322.2	0.0493087	mg/L	0.00042981	0.0493087	mg/L	0.00042981	0.87%
QC value within limits for Ni 231.604 Recovery = 98.62%								
Pb 220.353†	145.6	0.0148633	mg/L	0.00110599	0.0148633	mg/L	0.00110599	7.44%
QC value within limits for Pb 220.353 Recovery = 123.86%								
Sb 206.836†	71.9	0.0214039	mg/L	0.00044871	0.0214039	mg/L	0.00044871	2.10%
QC value within limits for Sb 206.836 Recovery = 107.02%								
Se 196.026†	65.3	0.0442682	mg/L	0.00084774	0.0442682	mg/L	0.00084774	1.92%
QC value within limits for Se 196.026 Recovery = 110.67%								
Sn 189.927†	227.2	0.0512046	mg/L	0.00037391	0.0512046	mg/L	0.00037391	0.73%
QC value within limits for Sn 189.927 Recovery = 102.41%								
Ti 334.940†	51775.3	0.0504133	mg/L	0.00101911	0.0504133	mg/L	0.00101911	2.02%
QC value within limits for Ti 334.940 Recovery = 100.83%								
Tl 190.801†	29.5	0.0163191	mg/L	0.00007091	0.0163191	mg/L	0.00007091	0.43%
QC value within limits for Tl 190.801 Recovery = 81.60%								
V 290.880†	10046.4	0.0497288	mg/L	0.00139178	0.0497288	mg/L	0.00139178	2.80%
QC value within limits for V 290.880 Recovery = 99.46%								
Zn 206.200†	3233.0	0.0478444	mg/L	0.00013455	0.0478444	mg/L	0.00013455	0.28%
QC value within limits for Zn 206.200 Recovery = 95.69%								

All analyte(s) passed QC.

Sequence No.: 44
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 2/28/2018 9:17:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sc 361.383	1727141.4	118	%	0.1				0.09%
Y 371.029	550715.2	116	%	0.0				0.02%
Ag 328.068†	-119.0	-0.0003847	mg/L	0.00011684	-0.0003847	mg/L	0.00011684	30.37%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-595.0	-0.0036185	mg/L	0.00199607	-0.0036185	mg/L	0.00199607	55.16%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	6.6	0.0046161	mg/L	0.00148434	0.0046161	mg/L	0.00148434	32.16%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	12.6	-0.0002030	mg/L	0.00009666	-0.0002030	mg/L	0.00009666	47.61%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-65.9	0.0006300	mg/L	0.00000548	0.0006300	mg/L	0.00000548	0.87%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.887†	59.8	-0.0225189	mg/L	0.00029347	-0.0225189	mg/L	0.00029347	1.30%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Cd 228.802†	-5.8	0.0007176	mg/L	0.00002102	0.0007176	mg/L	0.00002102	2.93%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-1.6	-0.0007542	mg/L	0.00003508	-0.0007542	mg/L	0.00003508	4.65%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	66.0	0.0002508	mg/L	0.00012401	0.0002508	mg/L	0.00012401	49.46%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 327.393†	0.5	0.0008447	mg/L	0.00002327	0.0008447	mg/L	0.00002327	2.75%
QC value within limits for Cu 327.393 Recovery = Not calculated								
Fe 273.955†	87.9	-0.0012056	mg/L	0.00046234	-0.0012056	mg/L	0.00046234	38.35%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 404.721†	-35.2	0.322925	mg/L	0.2884991	0.322925	mg/L	0.2884991	89.34%
QC value within limits for K 404.721 Recovery = Not calculated								
Mg 279.077†	243.3	-0.0664952	mg/L	0.00001310	-0.0664952	mg/L	0.00001310	0.02%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-180.7	-0.0002456	mg/L	0.00000598	-0.0002456	mg/L	0.00000598	2.44%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	6.0	0.0012410	mg/L	0.00004539	0.0012410	mg/L	0.00004539	3.66%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 330.237†	-171.3	0.742641	mg/L	0.0476431	0.742641	mg/L	0.0476431	6.42%
QC value within limits for Na 330.237 Recovery = Not calculated								
Ni 231.604†	8.1	-0.0009476	mg/L	0.00039161	-0.0009476	mg/L	0.00039161	41.33%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	26.4	0.0032141	mg/L	0.00017098	0.0032141	mg/L	0.00017098	5.32%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-10.4	0.0008549	mg/L	0.00159904	0.0008549	mg/L	0.00159904	187.04%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-2.3	-0.0005911	mg/L	0.00046974	-0.0005911	mg/L	0.00046974	79.47%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	5.7	0.0013820	mg/L	0.00084237	0.0013820	mg/L	0.00084237	60.95%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 334.940†	-154.1	0.0012380	mg/L	0.00001846	0.0012380	mg/L	0.00001846	1.49%
QC value within limits for Ti 334.940 Recovery = Not calculated								
Tl 190.801†	-1.3	-0.0027987	mg/L	0.00014967	-0.0027987	mg/L	0.00014967	5.35%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 290.880†	-191.2	-0.0003416	mg/L	0.00023521	-0.0003416	mg/L	0.00023521	68.86%
QC value within limits for V 290.880 Recovery = Not calculated								
Zn 206.200†	-81.8	-0.0020334	mg/L	0.00003034	-0.0020334	mg/L	0.00003034	1.49%
QC value within limits for Zn 206.200 Recovery = Not calculated								

All analyte(s) passed QC.

Analyst [signature] 3/1/18

Method Loaded
Method Name: PE 2 4300DV RADIAL
IEC File: IECrd082117.iec
Method Description: 200.7/6010B/6010C
Method Last Saved: 2/28/2018 1:32:39 PM
MSF File:

Sequence No.: 1
Sample ID: CALBLK V-273721
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 2/28/2018 9:23:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALBLK V-273721

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	18672.4	62.58	0.34%	100.0000	%
Sc 361.383	44990.8	138.49	0.31%	100	%
Al 308.215†	148.5	2.20	1.48%	[0.00]	mg/L
Ca 315.887†	307.4	13.42	4.37%	[0.00]	mg/L
Fe 273.955†	-38.9	5.00	12.86%	[0.00]	mg/L
Mg 279.077†	-94.8	0.47	0.49%	[0.00]	mg/L
Mn 257.610†	133.2	0.26	0.20%	[0.00]	mg/L
K 766.490†	860.0	35.60	4.14%	[0.00]	mg/L
Na 589.592†	1164.4	79.12	6.80%	[0.00]	mg/L
Ti 334.940†	66.3	6.74	10.17%	[0.00]	mg/L

22208 6649P

02799-002 2D Na reported

Sequence No.: 2
Sample ID: CALST2 V-273214
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 2/28/2018 9:27:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST2 V-273214

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	18477.6	158.24	0.86%	98.9572	%
Sc 361.383	44627.5	124.96	0.28%	99.2	%
Al 308.215†	84.4	7.78	9.22%	[0.1]	mg/L
Ca 315.887†	4308.0	12.10	0.28%	[1]	mg/L
Fe 273.955†	96.9	1.27	1.31%	[0.1]	mg/L
Mg 279.077†	717.9	5.33	0.74%	[1]	mg/L
Mn 257.610†	311.6	3.22	1.03%	[0.01]	mg/L
K 766.490†	2494.8	1.45	0.06%	[1]	mg/L
Na 589.592†	9580.2	176.52	1.84%	[1]	mg/L
Ti 334.940†	300.2	5.27	1.76%	[0.01]	mg/L

Sequence No.: 3
Sample ID: CALST3 V-273216
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 2/28/2018 9:30:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST3 V-273216

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	17740.6	187.06	1.05%	95.0102	%
Sc 361.383	43045.0	496.09	1.15%	95.7	%
Al 308.215†	3859.8	1.35	0.03%	[5]	mg/L
Ca 315.887†	208598.2	3351.10	1.61%	[50]	mg/L
Fe 273.955†	4815.0	31.94	0.66%	[5]	mg/L
Mg 279.077†	34113.4	3.41	0.01%	[50]	mg/L
Mn 257.610†	14905.0	24.97	0.17%	[0.5]	mg/L
K 766.490†	120085.8	1584.35	1.32%	[50]	mg/L
Na 589.592†	473875.5	6325.18	1.33%	[50]	mg/L
Ti 334.940†	14808.1	21.40	0.14%	[0.5]	mg/L

Sequence No.: 4
Sample ID: CALST4 V-272853
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 2/28/2018 9:33:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CALST4 V-272853

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	17492.1	126.16	0.72%	93.6793	%
Sc 361.383	42840.2	460.56	1.08%	95.2	%
Al 308.215†	7616.6	26.07	0.34%	[10]	mg/L
Ca 315.887†	411867.0	4330.14	1.05%	[100]	mg/L
Fe 273.955†	9503.5	5.30	0.06%	[10]	mg/L
Mg 279.077†	67236.9	79.89	0.12%	[100]	mg/L
Mn 257.610†	29358.8	1.79	0.01%	[1.0]	mg/L
K 766.490†	240588.5	2137.07	0.89%	[100]	mg/L
Na 589.592†	950343.0	10710.02	1.13%	[100]	mg/L
Ti 334.940†	29403.1	21.09	0.07%	[1.0]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Al 308.215	3	Lin, Calc Int	13.1	762.1	0.00000	0.999977	
Ca 315.887	3	Lin, Calc Int	570.9	4122	0.00000	0.999978	
Fe 273.955	3	Lin, Calc Int	12.3	951.4	0.00000	0.999977	
Mg 279.077	3	Lin, Calc Int	110.8	673.0	0.00000	0.999972	
Mn 257.610	3	Lin, Calc Int	49.2	29390	0.00000	0.999970	
K 766.490	3	Lin, Calc Int	2.4	2405	0.00000	0.999999	
Na 589.592	3	Lin, Calc Int	-201.0	9501	0.00000	0.999999	
Ti 334.940	3	Lin, Calc Int	22.2	29420	0.00000	0.999993	

Sequence No.: 5
Sample ID: ICS3 V-273216
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 2/28/2018 9:36:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICS3 V-273216

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17723.2	94.9170	%	0.44828				0.47%
Sc 361.383	43118.2	95.8	%	0.63				0.66%
Al 308.215†	3838.0	5.01854	mg/L	0.019708	5.01854	mg/L	0.019708	0.39%
QC value within limits for Al 308.215 Recovery = 100.37%								
Ca 315.887†	205618.2	49.7392	mg/L	0.22747	49.7392	mg/L	0.22747	0.46%
QC value within limits for Ca 315.887 Recovery = 99.48%								
Fe 273.955†	4783.3	5.01472	mg/L	0.004087	5.01472	mg/L	0.004087	0.08%
QC value within limits for Fe 273.955 Recovery = 100.29%								
Mg 279.077†	33893.9	50.1968	mg/L	0.30360	50.1968	mg/L	0.30360	0.60%
QC value within limits for Mg 279.077 Recovery = 100.39%								
Mn 257.610†	14811.3	0.505152	mg/L	0.0024366	0.505152	mg/L	0.0024366	0.48%
QC value within limits for Mn 257.610 Recovery = 101.03%								
K 766.490†	119582.0	49.7206	mg/L	0.37709	49.7206	mg/L	0.37709	0.76%
QC value within limits for K 766.490 Recovery = 99.44%								
Na 589.592†	470057.2	49.4973	mg/L	0.24059	49.4973	mg/L	0.24059	0.49%
QC value within limits for Na 589.592 Recovery = 98.99%								
Ti 334.940†	14731.7	0.499999	mg/L	0.0032188	0.499999	mg/L	0.0032188	0.64%
QC value within limits for Ti 334.940 Recovery = 100.00%								

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICV V-273563
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/28/2018 9:39:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICV V-273563

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17403.9	93.2069	%	0.02938				0.03%
Sc 361.383	42378.6	94.2	%	0.12				0.13%
Al 308.215†	3776.1	4.93740	mg/L	0.002662	4.93740	mg/L	0.002662	0.05%
QC value within limits for Al 308.215 Recovery = 98.75%								
Ca 315.887†	203929.2	49.3295	mg/L	0.11541	49.3295	mg/L	0.11541	0.23%
QC value within limits for Ca 315.887 Recovery = 98.66%								
Fe 273.955†	4727.6	4.95619	mg/L	0.001974	4.95619	mg/L	0.001974	0.04%
QC value within limits for Fe 273.955 Recovery = 99.12%								
Mg 279.077†	33785.4	50.0356	mg/L	0.17134	50.0356	mg/L	0.17134	0.34%
QC value within limits for Mg 279.077 Recovery = 100.07%								
Mn 257.610†	14588.6	0.497541	mg/L	0.0014812	0.497541	mg/L	0.0014812	0.30%
QC value within limits for Mn 257.610 Recovery = 99.51%								
K 766.490†	117406.3	48.8160	mg/L	0.09327	48.8160	mg/L	0.09327	0.19%
QC value within limits for K 766.490 Recovery = 97.63%								
Na 589.592†	466062.3	49.0768	mg/L	0.10445	49.0768	mg/L	0.10445	0.21%
QC value within limits for Na 589.592 Recovery = 98.15%								
Ti 334.940†	14650.6	0.497243	mg/L	0.0026713	0.497243	mg/L	0.0026713	0.54%
QC value within limits for Ti 334.940 Recovery = 99.45%								

All analyte(s) passed QC.

Sequence No.: 7 **Autosampler Location: 5**
Sample ID: LLICV [aq] V-274418 **Date Collected: 2/28/2018 9:42:15 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: LLICV [aq] V-274418

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	17900.7	95.8674	%	1.40603				1.47%
Sc 361.383	43381.5	96.4	%	1.14				1.18%
Al 308.215†	169.6	0.205292	mg/L	0.0001328	0.205292	mg/L	0.0001328	0.06%
QC value within limits for Al 308.215 Recovery = 102.65%								
Ca 315.887†	20925.6	4.93752	mg/L	0.033101	4.93752	mg/L	0.033101	0.67%
QC value within limits for Ca 315.887 Recovery = 98.75%								
Fe 273.955†	290.1	0.291961	mg/L	0.0016972	0.291961	mg/L	0.0016972	0.58%
QC value within limits for Fe 273.955 Recovery = 97.32%								
Mg 279.077†	3436.4	4.94139	mg/L	0.066958	4.94139	mg/L	0.066958	1.36%
QC value within limits for Mg 279.077 Recovery = 98.83%								
Mn 257.610†	1208.0	0.0395960	mg/L	0.00065485	0.0395960	mg/L	0.00065485	1.65%
QC value within limits for Mn 257.610 Recovery = 98.99%								
K 766.490†	12112.6	5.03538	mg/L	0.018866	5.03538	mg/L	0.018866	0.37%
QC value within limits for K 766.490 Recovery = 100.71%								
Na 589.592†	47522.6	5.02317	mg/L	0.019144	5.02317	mg/L	0.019144	0.38%
QC value within limits for Na 589.592 Recovery = 100.46%								
Ti 334.940†	1478.4	0.0494977	mg/L	0.00047863	0.0494977	mg/L	0.00047863	0.97%
QC value within limits for Ti 334.940 Recovery = 99.00%								

All analyte(s) passed QC.

Sequence No.: 8 Autosampler Location: 1
Sample ID: ICB V-273721 Date Collected: 2/28/2018 9:45:42 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Mean Data: ICB V-273721

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	17906.8	95.9001	%	0.43939				0.46%
Sc 361.383	43000.2	95.6	%	0.52				0.54%
Al 308.215†	4.0	-0.0119943	mg/L	0.00170221	-0.0119943	mg/L	0.00170221	14.19%
QC value within limits for Al 308.215 Recovery = Not calculated								
Ca 315.887†	24.3	-0.132601	mg/L	0.0016834	-0.132601	mg/L	0.0016834	1.27%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Fe 273.955†	-3.2	-0.0162983	mg/L	0.00310624	-0.0162983	mg/L	0.00310624	19.06%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	-11.9	-0.182221	mg/L	0.0054789	-0.182221	mg/L	0.0054789	3.01%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	5.9	-0.0014825	mg/L	0.00006768	-0.0014825	mg/L	0.00006768	4.57%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	99.5	0.0403912	mg/L	0.00014240	0.0403912	mg/L	0.00014240	0.35%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	-36.0	0.0173660	mg/L	0.00603959	0.0173660	mg/L	0.00603959	34.78%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-15.1	-0.0012666	mg/L	0.00051086	-0.0012666	mg/L	0.00051086	40.33%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

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Sequence No.: 9 **Autosampler Location: 7**
Sample ID: ICSA V-273217 **Date Collected: 2/28/2018 9:49:05 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Mean Data: ICSA V-273217

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15958.8	85.4675	%	1.06176				1.24%
Sc 361.383	39058.3	86.8	%	1.03				1.19%
Al 308.215†	376411.6	493.868	mg/L	4.5294	493.868	mg/L	4.5294	0.92%
QC value within limits for Al 308.215 Recovery = 98.77%								
Ca 315.887†	1965187.0	476.566	mg/L	5.1426	476.566	mg/L	5.1426	1.08%
QC value within limits for Ca 315.887 Recovery = 95.31%								
Fe 273.955†	175752.2	184.718	mg/L	1.9513	184.718	mg/L	1.9513	1.06%
QC value within limits for Fe 273.955 Recovery = 92.36%								
Mg 279.077†	321086.5	476.923	mg/L	5.7441	476.923	mg/L	5.7441	1.20%
QC value within limits for Mg 279.077 Recovery = 95.38%								
Mn 257.610†	-1728.5	0.0450126	mg/L	0.00178611	0.0450126	mg/L	0.00178611	3.97%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	285.2	0.117606	mg/L	0.0049489	0.117606	mg/L	0.0049489	4.21%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	642.2	0.0887558	mg/L	0.00283401	0.0887558	mg/L	0.00283401	3.19%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-842.5	-0.0293918	mg/L	0.00123481	-0.0293918	mg/L	0.00123481	4.20%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: ICSAB V-273219
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/28/2018 9:52:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-273219

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	15247.5	81.6582	%	6.49512				7.95%
Sc 361.383	37008.0	82.3	%	6.70				8.14%
Al 308.215†	384602.5	504.615	mg/L	13.5303	504.615	mg/L	13.5303	2.68%
QC value within limits for Al 308.215 Recovery = 100.92%								
Ca 315.887†	1992492.9	483.189	mg/L	10.3191	483.189	mg/L	10.3191	2.14%
QC value within limits for Ca 315.887 Recovery = 96.64%								
Fe 273.955†	178371.2	187.471	mg/L	4.3562	187.471	mg/L	4.3562	2.32%
QC value within limits for Fe 273.955 Recovery = 93.74%								
Mg 279.077†	325568.6	483.582	mg/L	9.3911	483.582	mg/L	9.3911	1.94%
QC value within limits for Mg 279.077 Recovery = 96.72%								
Mn 257.610†	12865.9	0.543167	mg/L	0.0069659	0.543167	mg/L	0.0069659	1.28%
QC value within limits for Mn 257.610 Recovery = 108.63%								
K 766.490†	199.3	0.0818854	mg/L	0.04047326	0.0818854	mg/L	0.04047326	49.43%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	645.5	0.0891031	mg/L	0.00751029	0.0891031	mg/L	0.00751029	8.43%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-854.2	-0.0297899	mg/L	0.00001532	-0.0297899	mg/L	0.00001532	0.05%

All analyte(s) passed QC.

Sequence No.: 11
Sample ID: MB 66504 (1)
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 66
Date Collected: 2/28/2018 9:56:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: MB 66504 (1)

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	15953.4	85.4384	%	0.28671				0.34%
Sc 361.383	38285.6	85.1	%	0.41				0.49%
Al 308.215†	38.8	0.0337434	mg/L	0.00222813	0.0337434	mg/L	0.00222813	6.60%
Ca 315.887†	254.9	-0.0766534	mg/L	0.00589210	-0.0766534	mg/L	0.00589210	7.69%
Fe 273.955†	16.0	0.0037947	mg/L	0.00341987	0.0037947	mg/L	0.00341987	90.12%
Mg 279.077†	-8.0	-0.176484	mg/L	0.0114241	-0.176484	mg/L	0.0114241	6.47%
Mn 257.610†	38.7	-0.0003567	mg/L	0.00015044	-0.0003567	mg/L	0.00015044	42.18%
K 766.490†	80.7	0.0325514	mg/L	0.01812364	0.0325514	mg/L	0.01812364	55.68%
Na 589.592†	217.0	0.0439977	mg/L	0.00385228	0.0439977	mg/L	0.00385228	8.76%
Ti 334.940†	21.1	-0.0000382	mg/L	0.00037984	-0.0000382	mg/L	0.00037984	994.30%

Sequence No.: 12
Sample ID: LCSW 66504
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 67
Date Collected: 2/28/2018 10:00:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCSW 66504

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15516.9	83.1007	%	0.47596				0.57%
Sc 361.383	37574.6	83.5	%	0.32				0.38%
Al 308.215†	4057.1	5.30608	mg/L	0.070528	5.30608	mg/L	0.070528	1.33%
Ca 315.887†	216370.6	52.3475	mg/L	0.03735	52.3475	mg/L	0.03735	0.07%
Fe 273.955†	4996.6	5.23891	mg/L	0.042032	5.23891	mg/L	0.042032	0.80%
Mg 279.077†	35257.4	52.2227	mg/L	0.40637	52.2227	mg/L	0.40637	0.78%
Mn 257.610†	15413.2	0.525760	mg/L	0.0027660	0.525760	mg/L	0.0027660	0.53%
K 766.490†	124984.8	51.9671	mg/L	0.95484	51.9671	mg/L	0.95484	1.84%
Na 589.592†	499126.1	52.5570	mg/L	0.00246	52.5570	mg/L	0.00246	0.00%
Ti 334.940†	15392.6	0.522465	mg/L	0.0014863	0.522465	mg/L	0.0014863	0.28%

Sequence No.: 13
Sample ID: LCSW MR 66504
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 68
Date Collected: 2/28/2018 10:03:11 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LCSW MR 66504

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16889.4	90.4514	%	1.08526				1.20%
Sc 361.383	41137.6	91.4	%	0.89				0.97%
Al 308.215†	3882.6	5.07712	mg/L	0.011693	5.07712	mg/L	0.011693	0.23%
Ca 315.887†	211235.0	51.1017	mg/L	1.23333	51.1017	mg/L	1.23333	2.41%
Fe 273.955†	4857.4	5.09262	mg/L	0.005054	5.09262	mg/L	0.005054	0.10%
Mg 279.077†	34322.1	50.8330	mg/L	0.04402	50.8330	mg/L	0.04402	0.09%
Mn 257.610†	14938.2	0.509513	mg/L	0.0005581	0.509513	mg/L	0.0005581	0.11%
K 766.490†	121642.0	50.5772	mg/L	1.01940	50.5772	mg/L	1.01940	2.02%
Na 589.592†	479808.9	50.5237	mg/L	1.02393	50.5237	mg/L	1.02393	2.03%
Ti 334.940†	14874.6	0.504857	mg/L	0.0000768	0.504857	mg/L	0.0000768	0.02%

Sequence No.: 14
Sample ID: AD02709-001
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 69
Date Collected: 2/28/2018 10:06:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02709-001

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	16811.5	90.0343	%	0.36967				0.41%
Sc 361.383	40921.9	91.0	%	0.47				0.52%
Al 308.215†	3624.0	4.73775	mg/L	0.079686	4.73775	mg/L	0.079686	1.68%
Ca 315.887†	198041.3	47.9013	mg/L	0.03022	47.9013	mg/L	0.03022	0.06%
Fe 273.955†	701.6	0.724473	mg/L	0.0129796	0.724473	mg/L	0.0129796	1.79%
Mg 279.077†	2945.2	4.21157	mg/L	0.067854	4.21157	mg/L	0.067854	1.61%
Mn 257.610†	227.5	0.0064801	mg/L	0.00038163	0.0064801	mg/L	0.00038163	5.89%
K 766.490†	20292.2	8.43639	mg/L	0.058334	8.43639	mg/L	0.058334	0.69%
Na 589.592†	9122502.3	960.216	mg/L	3.2702	960.216	mg/L	3.2702	0.34%
Ti 334.940†	527.0	0.0171578	mg/L	0.00049588	0.0171578	mg/L	0.00049588	2.89%

Sequence No.: 15
Sample ID: AD02709-001 MR
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 70
Date Collected: 2/28/2018 10:10:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02709-001 MR

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	16922.3	90.6278	%	0.81262				0.90%
Sc 361.383	41182.0	91.5	%	0.99				1.08%
Al 308.215†	3562.2	4.65671	mg/L	0.056324	4.65671	mg/L	0.056324	1.21%
Ca 315.887†	198618.7	48.0413	mg/L	0.03621	48.0413	mg/L	0.03621	0.08%
Fe 273.955†	667.7	0.688810	mg/L	0.0014212	0.688810	mg/L	0.0014212	0.21%
Mg 279.077†	2950.9	4.22004	mg/L	0.044814	4.22004	mg/L	0.044814	1.06%
Mn 257.610†	189.8	0.0051773	mg/L	0.00018533	0.0051773	mg/L	0.00018533	3.58%
K 766.490†	20420.0	8.48956	mg/L	0.120052	8.48956	mg/L	0.120052	1.41%
Na 589.592†	9065795.0	954.247	mg/L	17.9518	954.247	mg/L	17.9518	1.88%
Ti 334.940†	482.3	0.0156410	mg/L	0.00024662	0.0156410	mg/L	0.00024662	1.58%

Sequence No.: 16
Sample ID: AD02709-001 MS 1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 71
Date Collected: 2/28/2018 10:15:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02709-001 MS 1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	16745.8	89.6822	%	0.05255				0.06%
Sc 361.383	40655.8	90.4	%	0.06				0.06%
Al 308.215†	7304.8	9.56733	mg/L	0.036033	9.56733	mg/L	0.036033	0.38%
Ca 315.887†	402729.8	97.5535	mg/L	0.65305	97.5535	mg/L	0.65305	0.67%
Fe 273.955†	5448.9	5.71432	mg/L	0.011167	5.71432	mg/L	0.011167	0.20%
Mg 279.077†	36791.0	54.5014	mg/L	0.27367	54.5014	mg/L	0.27367	0.50%
Mn 257.610†	14928.8	0.509548	mg/L	0.0027394	0.509548	mg/L	0.0027394	0.54%
K 766.490†	153844.9	63.9670	mg/L	0.23048	63.9670	mg/L	0.23048	0.36%
Na 589.592†	9488421.8	998.731	mg/L	5.1434	998.731	mg/L	5.1434	0.51%
Ti 334.940†	15209.5	0.516242	mg/L	0.0016060	0.516242	mg/L	0.0016060	0.31%

Sequence No.: 17
Sample ID: AD02709-001 MS 2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 72
Date Collected: 2/28/2018 10:19:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02709-001 MS 2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	16765.1	89.7858	%	0.19794				0.22%
Sc 361.383	40646.9	90.3	%	0.62				0.69%
Al 308.215†	7411.7	9.70757	mg/L	0.002918	9.70757	mg/L	0.002918	0.03%
Ca 315.887†	399119.3	96.6776	mg/L	0.22836	96.6776	mg/L	0.22836	0.24%
Fe 273.955†	5525.3	5.79458	mg/L	0.066002	5.79458	mg/L	0.066002	1.14%
Mg 279.077†	36919.3	54.6921	mg/L	0.14100	54.6921	mg/L	0.14100	0.26%
Mn 257.610†	14961.4	0.510704	mg/L	0.0017457	0.510704	mg/L	0.0017457	0.34%
K 766.490†	151648.7	63.0538	mg/L	0.19251	63.0538	mg/L	0.19251	0.31%
Na 589.592†	9500103.0	999.960	mg/L	1.4689	999.960	mg/L	1.4689	0.15%
Ti 334.940†	15106.4	0.512737	mg/L	0.0002003	0.512737	mg/L	0.0002003	0.04%

Sequence No.: 18
Sample ID: AD02709-001 PS
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 73
Date Collected: 2/28/2018 10:23:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02709-001 PS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16344.2	87.5318	%	0.34270				0.39%
Sc 361.383	39641.7	88.1	%	0.28				0.31%
Al 308.215†	7200.1	9.42993	mg/L	0.013831	9.42993	mg/L	0.013831	0.15%
Ca 315.887†	387995.8	93.9794	mg/L	0.55497	93.9794	mg/L	0.55497	0.59%
Fe 273.955†	5339.7	5.59952	mg/L	0.011183	5.59952	mg/L	0.011183	0.20%
Mg 279.077†	35525.0	52.6203	mg/L	0.27427	52.6203	mg/L	0.27427	0.52%
Mn 257.610†	14533.6	0.496037	mg/L	0.0020754	0.496037	mg/L	0.0020754	0.42%
K 766.490†	149332.6	62.0908	mg/L	0.00206	62.0908	mg/L	0.00206	0.00%
Na 589.592†	9317466.9	980.737	mg/L	9.0941	980.737	mg/L	9.0941	0.93%
Ti 334.940†	14715.6	0.499452	mg/L	0.0016835	0.499452	mg/L	0.0016835	0.34%

Sequence No.: 19
Sample ID: CCV V-273563
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/28/2018 10:28:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-273563

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17342.2	92.8762	%	1.46756				1.58%
Sc 361.383	42075.6	93.5	%	1.88				2.01%
Al 308.215†	3771.5	4.93136	mg/L	0.018590	4.93136	mg/L	0.018590	0.38%
QC value within limits for Al 308.215 Recovery = 98.63%								
Ca 315.887†	204877.0	49.5594	mg/L	1.28757	49.5594	mg/L	1.28757	2.60%
QC value within limits for Ca 315.887 Recovery = 99.12%								
Fe 273.955†	4703.9	4.93126	mg/L	0.006345	4.93126	mg/L	0.006345	0.13%
QC value within limits for Fe 273.955 Recovery = 98.63%								
Mg 279.077†	33785.2	50.0352	mg/L	0.16129	50.0352	mg/L	0.16129	0.32%
QC value within limits for Mg 279.077 Recovery = 100.07%								
Mn 257.610†	14610.8	0.498279	mg/L	0.0021051	0.498279	mg/L	0.0021051	0.42%
QC value within limits for Mn 257.610 Recovery = 99.66%								
K 766.490†	118470.8	49.2586	mg/L	1.31171	49.2586	mg/L	1.31171	2.66%
QC value within limits for K 766.490 Recovery = 98.52%								
Na 589.592†	470631.0	49.5577	mg/L	1.13535	49.5577	mg/L	1.13535	2.29%
QC value within limits for Na 589.592 Recovery = 99.12%								
Ti 334.940†	14654.6	0.497380	mg/L	0.0035786	0.497380	mg/L	0.0035786	0.72%
QC value within limits for Ti 334.940 Recovery = 99.48%								

All analyte(s) passed QC.

Sequence No.: 20
Sample ID: LLCCV [aq] V-274418
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/28/2018 10:30:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV [aq] V-274418

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17955.6	96.1614	%	0.01748				0.02%
Sc 361.383	43737.7	97.2	%	0.21				0.22%
Al 308.215†	174.5	0.211682	mg/L	0.0042642	0.211682	mg/L	0.0042642	2.01%
QC value within limits for Al 308.215 Recovery = 105.84%								
Ca 315.887†	20903.9	4.93224	mg/L	0.022082	4.93224	mg/L	0.022082	0.45%
QC value within limits for Ca 315.887 Recovery = 98.64%								
Fe 273.955†	290.7	0.292583	mg/L	0.0031211	0.292583	mg/L	0.0031211	1.07%
QC value within limits for Fe 273.955 Recovery = 97.53%								
Mg 279.077†	3470.8	4.99249	mg/L	0.010709	4.99249	mg/L	0.010709	0.21%
QC value within limits for Mg 279.077 Recovery = 99.85%								
Mn 257.610†	1217.3	0.0399115	mg/L	0.00001518	0.0399115	mg/L	0.00001518	0.04%
QC value within limits for Mn 257.610 Recovery = 99.78%								
K 766.490†	11959.7	4.97177	mg/L	0.038507	4.97177	mg/L	0.038507	0.77%
QC value within limits for K 766.490 Recovery = 99.44%								
Na 589.592†	49403.8	5.22119	mg/L	0.014995	5.22119	mg/L	0.014995	0.29%
QC value within limits for Na 589.592 Recovery = 104.42%								
Ti 334.940†	1487.5	0.0498062	mg/L	0.00041933	0.0498062	mg/L	0.00041933	0.84%
QC value within limits for Ti 334.940 Recovery = 99.61%								

All analyte(s) passed QC.

Sequence No.: 21
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 2/28/2018 10:34:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17817.5	95.4220	%	0.26410				0.28%
Sc 361.383	42903.4	95.4	%	0.01				0.01%
Al 308.215†	3.2	-0.0130755	mg/L	0.00315460	-0.0130755	mg/L	0.00315460	24.13%
QC value within limits for Al 308.215 Recovery = Not calculated								
Ca 315.887†	4.1	-0.137504	mg/L	0.0010277	-0.137504	mg/L	0.0010277	0.75%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Fe 273.955†	-4.2	-0.0173752	mg/L	0.00361116	-0.0173752	mg/L	0.00361116	20.78%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	-16.6	-0.189250	mg/L	0.0047548	-0.189250	mg/L	0.0047548	2.51%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	7.9	-0.0014173	mg/L	0.00008414	-0.0014173	mg/L	0.00008414	5.94%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	194.2	0.0797403	mg/L	0.03272053	0.0797403	mg/L	0.03272053	41.03%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	1322.4	0.160349	mg/L	0.0025941	0.160349	mg/L	0.0025941	1.62%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	15.7	-0.0002207	mg/L	0.00049909	-0.0002207	mg/L	0.00049909	226.17%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 22
Sample ID: AD02709-001 SD
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 74
Date Collected: 2/28/2018 10:37:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02709-001 SD

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16347.8	87.5508	%	0.26099				0.30%
Sc 361.383	39770.1	88.4	%	0.73				0.83%
Al 308.215†	778.8	1.00458	mg/L	0.014650	1.00458	mg/L	0.014650	1.46%
Ca 315.887†	41574.8	9.94649	mg/L	0.114297	9.94649	mg/L	0.114297	1.15%
Fe 273.955†	147.4	0.141914	mg/L	0.0019150	0.141914	mg/L	0.0019150	1.35%
Mg 279.077†	615.7	0.750251	mg/L	0.0047381	0.750251	mg/L	0.0047381	0.63%
Mn 257.610†	55.6	0.0002977	mg/L	0.00012219	0.0002977	mg/L	0.00012219	41.04%
K 766.490†	3965.4	1.64779	mg/L	0.047648	1.64779	mg/L	0.047648	2.89%
Na 589.592†	1960966.9	206.424	mg/L	1.0700	206.424	mg/L	1.0700	0.52%
Ti 334.940†	116.5	0.0032053	mg/L	0.00058890	0.0032053	mg/L	0.00058890	18.37%

Sequence No.: 23
Sample ID: AD02710-001
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 75
Date Collected: 2/28/2018 10:41:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02710-001

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15917.5	85.2462	%	1.75837				2.06%
Sc 361.383	38333.7	85.2	%	2.04				2.39%
Al 308.215†	6488.3	8.49599	mg/L	0.007984	8.49599	mg/L	0.007984	0.09%
Ca 315.887†	773238.4	187.429	mg/L	0.1191	187.429	mg/L	0.1191	0.06%
Fe 273.955†	12787.0	13.4273	mg/L	0.05909	13.4273	mg/L	0.05909	0.44%
Mg 279.077†	27342.9	40.4629	mg/L	0.13358	40.4629	mg/L	0.13358	0.33%
Mn 257.610†	18251.2	0.626999	mg/L	0.0001321	0.626999	mg/L	0.0001321	0.02%
K 766.490†	21767.6	9.04988	mg/L	0.025439	9.04988	mg/L	0.025439	0.28%
Na 589.592†	1977601.6	208.175	mg/L	0.9199	208.175	mg/L	0.9199	0.44%
Ti 334.940†	8950.5	0.303488	mg/L	0.0014032	0.303488	mg/L	0.0014032	0.46%

Sequence No.: 24
Sample ID: AD02710-002
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 76
Date Collected: 2/28/2018 10:44:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02710-002

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16616.3	88.9889	%	0.26544				0.30%
Sc 361.383	40269.7	89.5	%	0.05				0.06%
Al 308.215†	7599.9	9.95453	mg/L	0.003791	9.95453	mg/L	0.003791	0.04%
Ca 315.887†	715868.6	173.513	mg/L	1.7408	173.513	mg/L	1.7408	1.00%
Fe 273.955†	15138.0	15.8984	mg/L	0.00906	15.8984	mg/L	0.00906	0.06%
Mg 279.077†	25505.2	37.7323	mg/L	0.05074	37.7323	mg/L	0.05074	0.13%
Mn 257.610†	18800.2	0.647090	mg/L	0.0025474	0.647090	mg/L	0.0025474	0.39%
K 766.490†	21375.4	8.88681	mg/L	0.039621	8.88681	mg/L	0.039621	0.45%
Na 589.592†	1844734.3	194.190	mg/L	1.8196	194.190	mg/L	1.8196	0.94%
Ti 334.940†	10808.9	0.366657	mg/L	0.0166562	0.366657	mg/L	0.0166562	4.54%

Sequence No.: 25
Sample ID: AD02710-003
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 77
Date Collected: 2/28/2018 10:47:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02710-003

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16869.4	90.3441	%	0.22416				0.25%
Sc 361.383	40793.6	90.7	%	0.45				0.50%
Al 308.215†	4785.4	6.26159	mg/L	0.018048	6.26159	mg/L	0.018048	0.29%
Ca 315.887†	354120.1	85.7620	mg/L	0.28591	85.7620	mg/L	0.28591	0.33%
Fe 273.955†	5849.1	6.13491	mg/L	0.030599	6.13491	mg/L	0.030599	0.50%
Mg 279.077†	23082.1	34.1321	mg/L	0.10249	34.1321	mg/L	0.10249	0.30%
Mn 257.610†	5968.3	0.204902	mg/L	0.0002382	0.204902	mg/L	0.0002382	0.12%
K 766.490†	18607.1	7.73573	mg/L	0.062153	7.73573	mg/L	0.062153	0.80%
Na 589.592†	688964.2	72.5385	mg/L	0.05254	72.5385	mg/L	0.05254	0.07%
Ti 334.940†	4673.4	0.158102	mg/L	0.0048633	0.158102	mg/L	0.0048633	3.08%

Sequence No.: 26
Sample ID: AD02713-001
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 78
Date Collected: 2/28/2018 10:50:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02713-001

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16582.2	88.8061	%	1.07021				1.21%
Sc 361.383	40078.6	89.1	%	0.91				1.02%
Al 308.215†	7257.7	9.50548	mg/L	0.012894	9.50548	mg/L	0.012894	0.14%
Ca 315.887†	840321.1	203.702	mg/L	0.9577	203.702	mg/L	0.9577	0.47%
Fe 273.955†	11001.0	11.5501	mg/L	0.07207	11.5501	mg/L	0.07207	0.62%
Mg 279.077†	24195.5	35.7864	mg/L	0.06354	35.7864	mg/L	0.06354	0.18%
Mn 257.610†	7210.3	0.250256	mg/L	0.0000358	0.250256	mg/L	0.0000358	0.01%
K 766.490†	16850.5	7.00535	mg/L	0.097830	7.00535	mg/L	0.097830	1.40%
Na 589.592†	494349.6	52.0542	mg/L	0.20791	52.0542	mg/L	0.20791	0.40%
Ti 334.940†	7323.4	0.248181	mg/L	0.0057920	0.248181	mg/L	0.0057920	2.33%

Sequence No.: 27
Sample ID: AD02713-002
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 79
Date Collected: 2/28/2018 10:53:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02713-002

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16569.9	88.7400	%	1.28804				1.45%
Sc 361.383	41089.5	91.3	%	0.66				0.72%
Al 308.215†	920.1	1.19003	mg/L	0.007592	1.19003	mg/L	0.007592	0.64%
Ca 315.887†	579306.1	140.386	mg/L	0.8268	140.386	mg/L	0.8268	0.59%
Fe 273.955†	1061.7	1.10300	mg/L	0.002013	1.10300	mg/L	0.002013	0.18%
Mg 279.077†	20508.7	30.3083	mg/L	0.14938	30.3083	mg/L	0.14938	0.49%
Mn 257.610†	96090.1	3.26847	mg/L	0.011428	3.26847	mg/L	0.011428	0.35%
K 766.490†	9241.3	3.84150	mg/L	0.021111	3.84150	mg/L	0.021111	0.55%
Na 589.592†	473613.9	49.8717	mg/L	0.45501	49.8717	mg/L	0.45501	0.91%
Ti 334.940†	742.1	0.0244721	mg/L	0.00003779	0.0244721	mg/L	0.00003779	0.15%

Sequence No.: 28
Sample ID: AD02713-003
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 80
Date Collected: 2/28/2018 10:56:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02713-003

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	16865.4	90.3229	%	0.80064				0.89%
Sc 361.383	41064.5	91.3	%	0.71				0.78%
Al 308.215†	684.8	0.881359	mg/L	0.0217239	0.881359	mg/L	0.0217239	2.46%
Ca 315.887†	145022.9	35.0404	mg/L	0.29231	35.0404	mg/L	0.29231	0.83%
Fe 273.955†	703.6	0.726583	mg/L	0.0009508	0.726583	mg/L	0.0009508	0.13%
Mg 279.077†	8957.9	13.1456	mg/L	0.03793	13.1456	mg/L	0.03793	0.29%
Mn 257.610†	42696.3	1.45150	mg/L	0.011936	1.45150	mg/L	0.011936	0.82%
K 766.490†	8756.7	3.64000	mg/L	0.039436	3.64000	mg/L	0.039436	1.08%
Na 589.592†	917205.9	96.5622	mg/L	0.56723	96.5622	mg/L	0.56723	0.59%
Ti 334.940†	832.4	0.0275389	mg/L	0.00328148	0.0275389	mg/L	0.00328148	11.92%

Sequence No.: 29
Sample ID: ICSA V-273217
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/28/2018 11:00:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-273217

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	15041.9	80.5571	%	0.19801				0.25%
Sc 361.383	36643.9	81.4	%	0.22				0.27%
Al 308.215†	385161.9	505.349	mg/L	0.9887	505.349	mg/L	0.9887	0.20%
QC value within limits for Al 308.215 Recovery = 101.07%								
Ca 315.887†	1995224.4	483.852	mg/L	2.0147	483.852	mg/L	2.0147	0.42%
QC value within limits for Ca 315.887 Recovery = 96.77%								
Fe 273.955†	177854.4	186.928	mg/L	0.5919	186.928	mg/L	0.5919	0.32%
QC value within limits for Fe 273.955 Recovery = 93.46%								
Mg 279.077†	325586.5	483.609	mg/L	2.2333	483.609	mg/L	2.2333	0.46%
QC value within limits for Mg 279.077 Recovery = 96.72%								
Mn 257.610†	-1701.3	0.0472008	mg/L	0.00033607	0.0472008	mg/L	0.00033607	0.71%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	389.4	0.160918	mg/L	0.0115369	0.160918	mg/L	0.0115369	7.17%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	1839.1	0.214736	mg/L	0.0013698	0.214736	mg/L	0.0013698	0.64%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-831.2	-0.0290098	mg/L	0.00043071	-0.0290098	mg/L	0.00043071	1.48%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 30
Sample ID: ICSAB V-273219
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/28/2018 11:04:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-273219

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15086.4	80.7952	%	0.29612				0.37%
Sc 361.383	36952.0	82.1	%	0.77				0.93%
Al 308.215†	384148.1	504.019	mg/L	8.5252	504.019	mg/L	8.5252	1.69%
QC value within limits for Al 308.215 Recovery = 100.80%								
Ca 315.887†	1986959.8	481.847	mg/L	8.0564	481.847	mg/L	8.0564	1.67%
QC value within limits for Ca 315.887 Recovery = 96.37%								
Fe 273.955†	178442.0	187.545	mg/L	2.9724	187.545	mg/L	2.9724	1.58%
QC value within limits for Fe 273.955 Recovery = 93.77%								
Mg 279.077†	324738.2	482.349	mg/L	7.8768	482.349	mg/L	7.8768	1.63%
QC value within limits for Mg 279.077 Recovery = 96.47%								
Mn 257.610†	12817.8	0.541573	mg/L	0.0045298	0.541573	mg/L	0.0045298	0.84%
QC value within limits for Mn 257.610 Recovery = 108.31%								
K 766.490†	245.9	0.101246	mg/L	0.0336432	0.101246	mg/L	0.0336432	33.23%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	1533.9	0.182610	mg/L	0.0009161	0.182610	mg/L	0.0009161	0.50%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-861.9	-0.0300527	mg/L	0.00184281	-0.0300527	mg/L	0.00184281	6.13%

All analyte(s) passed QC.

Sequence No.: 31
Sample ID: CCV V-273563
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/28/2018 11:08:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-273563

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	16376.7	87.7057	%	0.35192				0.40%
Sc 361.383	39831.4	88.5	%	0.45				0.51%
Al 308.215†	3907.9	5.11023	mg/L	0.025014	5.11023	mg/L	0.025014	0.49%
QC value within limits for Al 308.215 Recovery = 102.20%								
Ca 315.887†	211438.3	51.1510	mg/L	0.18998	51.1510	mg/L	0.18998	0.37%
QC value within limits for Ca 315.887 Recovery = 102.30%								
Fe 273.955†	4816.7	5.04982	mg/L	0.010987	5.04982	mg/L	0.010987	0.22%
QC value within limits for Fe 273.955 Recovery = 101.00%								
Mg 279.077†	34405.2	50.9565	mg/L	0.08663	50.9565	mg/L	0.08663	0.17%
QC value within limits for Mg 279.077 Recovery = 101.91%								
Mn 257.610†	14936.7	0.509438	mg/L	0.0003525	0.509438	mg/L	0.0003525	0.07%
QC value within limits for Mn 257.610 Recovery = 101.89%								
K 766.490†	121087.7	50.3467	mg/L	0.39411	50.3467	mg/L	0.39411	0.78%
QC value within limits for K 766.490 Recovery = 100.69%								
Na 589.592†	483361.1	50.8976	mg/L	0.11754	50.8976	mg/L	0.11754	0.23%
QC value within limits for Na 589.592 Recovery = 101.80%								
Ti 334.940†	14994.9	0.508946	mg/L	0.0003274	0.508946	mg/L	0.0003274	0.06%
QC value within limits for Ti 334.940 Recovery = 101.79%								

All analyte(s) passed QC.

Sequence No.: 32
Sample ID: LLCCV [aq] V-274418
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/28/2018 11:11:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV [aq] V-274418

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	15931.5	85.3213	%	0.01959				0.02%
Sc 361.383	38469.3	85.5	%	0.22				0.26%
Al 308.215†	196.9	0.241093	mg/L	0.0155985	0.241093	mg/L	0.0155985	6.47%
QC value within limits for Al 308.215 Recovery = 120.55%								
Ca 315.887†	21636.4	5.10994	mg/L	0.009905	5.10994	mg/L	0.009905	0.19%
QC value within limits for Ca 315.887 Recovery = 102.20%								
Fe 273.955†	302.6	0.305084	mg/L	0.0028542	0.305084	mg/L	0.0028542	0.94%
QC value within limits for Fe 273.955 Recovery = 101.69%								
Mg 279.077†	3524.3	5.07205	mg/L	0.022752	5.07205	mg/L	0.022752	0.45%
QC value within limits for Mg 279.077 Recovery = 101.44%								
Mn 257.610†	1267.8	0.0416377	mg/L	0.00015822	0.0416377	mg/L	0.00015822	0.38%
QC value within limits for Mn 257.610 Recovery = 104.09%								
K 766.490†	12626.8	5.24915	mg/L	0.001717	5.24915	mg/L	0.001717	0.03%
QC value within limits for K 766.490 Recovery = 104.98%								
Na 589.592†	49978.0	5.28162	mg/L	0.016201	5.28162	mg/L	0.016201	0.31%
QC value within limits for Na 589.592 Recovery = 105.63%								
Ti 334.940†	1534.0	0.0513883	mg/L	0.00000891	0.0513883	mg/L	0.00000891	0.02%
QC value within limits for Ti 334.940 Recovery = 102.78%								

All analyte(s) passed QC.

Sequence No.: 33
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 2/28/2018 11:14:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16078.2	86.1071	%	0.03397				0.04%
Sc 361.383	38418.7	85.4	%	0.10				0.12%
Al 308.215†	20.4	0.0095708	mg/L	0.00350599	0.0095708	mg/L	0.00350599	36.63%
QC value within limits for Al 308.215 Recovery = Not calculated								
Ca 315.887†	54.5	-0.125270	mg/L	0.0005578	-0.125270	mg/L	0.0005578	0.45%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Fe 273.955†	2.2	-0.0106134	mg/L	0.00350283	-0.0106134	mg/L	0.00350283	33.00%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	-17.9	-0.191168	mg/L	0.0167391	-0.191168	mg/L	0.0167391	8.76%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	14.7	-0.0011799	mg/L	0.00016889	-0.0011799	mg/L	0.00016889	14.31%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	103.6	0.0420862	mg/L	0.01432348	0.0420862	mg/L	0.01432348	34.03%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	331.9	0.0560915	mg/L	0.00327634	0.0560915	mg/L	0.00327634	5.84%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	1.0	-0.0007194	mg/L	0.00042836	-0.0007194	mg/L	0.00042836	59.54%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 34
Sample ID: AD02753-001
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 81
Date Collected: 2/28/2018 11:17:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02753-001

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16082.6	86.1306	%	1.73671				2.02%
Sc 361.383	39181.3	87.1	%	1.41				1.62%
Al 308.215†	110.8	0.128216	mg/L	0.0104807	0.128216	mg/L	0.0104807	8.17%
Ca 315.887†	597631.8	144.832	mg/L	2.0429	144.832	mg/L	2.0429	1.41%
Fe 273.955†	913.3	0.946973	mg/L	0.0100326	0.946973	mg/L	0.0100326	1.06%
Mg 279.077†	30537.7	45.2100	mg/L	0.42908	45.2100	mg/L	0.42908	0.95%
Mn 257.610†	333203.5	11.3363	mg/L	0.08137	11.3363	mg/L	0.08137	0.72%
K 766.490†	18917.8	7.86495	mg/L	0.003999	7.86495	mg/L	0.003999	0.05%
Na 589.592†	2789340.0	293.615	mg/L	3.5251	293.615	mg/L	3.5251	1.20%
Ti 334.940†	-295.1	-0.0107870	mg/L	0.00001937	-0.0107870	mg/L	0.00001937	0.18%

Sequence No.: 35
Sample ID: AD02753-002
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 82
Date Collected: 2/28/2018 11:21:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02753-002

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17116.1	91.6656	%	0.27792				0.30%
Sc 361.383	42381.5	94.2	%	0.33				0.35%
Al 308.215†	1798.3	2.34233	mg/L	0.000488	2.34233	mg/L	0.000488	0.02%
Ca 315.887†	262729.8	63.5930	mg/L	0.28734	63.5930	mg/L	0.28734	0.45%
Fe 273.955†	2050.4	2.14219	mg/L	0.002021	2.14219	mg/L	0.002021	0.09%
Mg 279.077†	11438.3	16.8310	mg/L	0.01911	16.8310	mg/L	0.01911	0.11%
Mn 257.610†	88056.3	2.99571	mg/L	0.013137	2.99571	mg/L	0.013137	0.44%
K 766.490†	8294.7	3.44791	mg/L	0.037683	3.44791	mg/L	0.037683	1.09%
Na 589.592†	2137514.7	225.007	mg/L	2.2047	225.007	mg/L	2.2047	0.98%
Ti 334.940†	2152.2	0.0724016	mg/L	0.00098085	0.0724016	mg/L	0.00098085	1.35%

Sequence No.: 36
Sample ID: AD02753-003
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 83
Date Collected: 2/28/2018 11:25:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02753-003

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	17555.4	94.0182	%	0.44328				0.47%
Sc 361.383	41772.9	92.8	%	0.21				0.23%
Al 308.215†	3923.6	5.13091	mg/L	0.041848	5.13091	mg/L	0.041848	0.82%
Ca 315.887†	118971.9	28.7210	mg/L	0.14283	28.7210	mg/L	0.14283	0.50%
Fe 273.955†	7866.0	8.25486	mg/L	0.028144	8.25486	mg/L	0.028144	0.34%
Mg 279.077†	5130.0	7.45776	mg/L	0.054243	7.45776	mg/L	0.054243	0.73%
Mn 257.610†	49191.1	1.67679	mg/L	0.001066	1.67679	mg/L	0.001066	0.06%
K 766.490†	7829.2	3.25433	mg/L	0.006519	3.25433	mg/L	0.006519	0.20%
Na 589.592†	335669.4	35.3522	mg/L	0.05107	35.3522	mg/L	0.05107	0.14%
Ti 334.940†	2724.4	0.0918524	mg/L	0.00281728	0.0918524	mg/L	0.00281728	3.07%

Sequence No.: 37
Sample ID: AD02799-002 2D
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 84
Date Collected: 2/28/2018 11:28:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: AD02799-002 2D

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16071.0	86.0686	%	1.95618				2.27%
Sc 361.383	40357.9	89.7	%	2.09				2.33%
Al 308.215†	349.0	0.440757	mg/L	0.0009703	0.440757	mg/L	0.0009703	0.22%
Ca 315.887†	330408.1	80.0101	mg/L	0.68744	80.0101	mg/L	0.68744	0.86%
Fe 273.955†	1786.3	1.86456	mg/L	0.012838	1.86456	mg/L	0.012838	0.69%
Mg 279.077†	46780.3	69.3440	mg/L	0.63121	69.3440	mg/L	0.63121	0.91%
Mn 257.610†	4111.4	0.139283	mg/L	0.0012152	0.139283	mg/L	0.0012152	0.87%
K 766.490†	38058.1	15.8234	mg/L	0.08849	15.8234	mg/L	0.08849	0.56%
Na 589.592†	5445321.4	573.172	mg/L	4.1401	573.172	mg/L	4.1401	0.72%
Ti 334.940†	590.6	0.0193219	mg/L	0.00126522	0.0193219	mg/L	0.00126522	6.55%

Sequence No.: 38
Sample ID: ICSA V-273217
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 2/28/2018 11:32:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSA V-273217

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15437.8	82.6776	%	0.36837				0.45%
Sc 361.383	37944.4	84.3	%	0.35				0.42%
Al 308.215†	378826.0	497.036	mg/L	6.3420	497.036	mg/L	6.3420	1.28%
QC value within limits for Al 308.215 Recovery = 99.41%								
Ca 315.887†	1964387.9	476.372	mg/L	4.8642	476.372	mg/L	4.8642	1.02%
QC value within limits for Ca 315.887 Recovery = 95.27%								
Fe 273.955†	175743.2	184.709	mg/L	2.7745	184.709	mg/L	2.7745	1.50%
QC value within limits for Fe 273.955 Recovery = 92.35%								
Mg 279.077†	320987.5	476.776	mg/L	4.8146	476.776	mg/L	4.8146	1.01%
QC value within limits for Mg 279.077 Recovery = 95.36%								
Mn 257.610†	-1679.4	0.0466776	mg/L	0.00110211	0.0466776	mg/L	0.00110211	2.36%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	388.9	0.160712	mg/L	0.0176191	0.160712	mg/L	0.0176191	10.96%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	3154.2	0.353154	mg/L	0.0028177	0.353154	mg/L	0.0028177	0.80%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-859.5	-0.0299694	mg/L	0.00033613	-0.0299694	mg/L	0.00033613	1.12%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Sequence No.: 39
Sample ID: ICSAB V-273219
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 2/28/2018 11:36:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: ICSAB V-273219

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	15204.9	81.4298	%	0.30173				0.37%
Sc 361.383	37195.1	82.7	%	0.63				0.76%
Al 308.215†	378912.0	497.149	mg/L	0.6440	497.149	mg/L	0.6440	0.13%
QC value within limits for Al 308.215 Recovery = 99.43%								
Ca 315.887†	1956157.5	474.375	mg/L	0.2862	474.375	mg/L	0.2862	0.06%
QC value within limits for Ca 315.887 Recovery = 94.88%								
Fe 273.955†	175182.0	184.119	mg/L	0.3937	184.119	mg/L	0.3937	0.21%
QC value within limits for Fe 273.955 Recovery = 92.06%								
Mg 279.077†	319287.9	474.250	mg/L	0.1296	474.250	mg/L	0.1296	0.03%
QC value within limits for Mg 279.077 Recovery = 94.85%								
Mn 257.610†	12601.9	0.532267	mg/L	0.0007691	0.532267	mg/L	0.0007691	0.14%
QC value within limits for Mn 257.610 Recovery = 106.45%								
K 766.490†	317.3	0.130929	mg/L	0.0308259	0.130929	mg/L	0.0308259	23.54%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	1995.5	0.231192	mg/L	0.0058230	0.231192	mg/L	0.0058230	2.52%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-837.0	-0.0292072	mg/L	0.00240577	-0.0292072	mg/L	0.00240577	8.24%

All analyte(s) passed QC.

Sequence No.: 40
Sample ID: CCV V-273563
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 2/28/2018 11:40:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCV V-273563

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16172.6	86.6125	%	0.04617				0.05%
Sc 361.383	39401.4	87.6	%	0.06				0.07%
Al 308.215†	3809.9	4.98167	mg/L	0.015002	4.98167	mg/L	0.015002	0.30%
QC value within limits for Al 308.215 Recovery = 99.63%								
Ca 315.887†	204253.0	49.4081	mg/L	0.51401	49.4081	mg/L	0.51401	1.04%
QC value within limits for Ca 315.887 Recovery = 98.82%								
Fe 273.955†	4679.4	4.90545	mg/L	0.027675	4.90545	mg/L	0.027675	0.56%
QC value within limits for Fe 273.955 Recovery = 98.11%								
Mg 279.077†	33398.8	49.4611	mg/L	0.06639	49.4611	mg/L	0.06639	0.13%
QC value within limits for Mg 279.077 Recovery = 98.92%								
Mn 257.610†	14543.2	0.495967	mg/L	0.0002605	0.495967	mg/L	0.0002605	0.05%
QC value within limits for Mn 257.610 Recovery = 99.19%								
K 766.490†	117405.4	48.8156	mg/L	0.59835	48.8156	mg/L	0.59835	1.23%
QC value within limits for K 766.490 Recovery = 97.63%								
Na 589.592†	469330.1	49.4208	mg/L	0.36950	49.4208	mg/L	0.36950	0.75%
QC value within limits for Na 589.592 Recovery = 98.84%								
Ti 334.940†	14616.2	0.496075	mg/L	0.0011688	0.496075	mg/L	0.0011688	0.24%
QC value within limits for Ti 334.940 Recovery = 99.22%								

All analyte(s) passed QC.

Sequence No.: 41
Sample ID: LLCCV [aq] V-274418
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 2/28/2018 11:43:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: LLCCV [aq] V-274418

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	16685.5	89.3592	%	0.70743				0.79%
Sc 361.383	40550.6	90.1	%	0.16				0.18%
Al 308.215†	175.7	0.213269	mg/L	0.0089314	0.213269	mg/L	0.0089314	4.19%
QC value within limits for Al 308.215 Recovery = 106.63%								
Ca 315.887†	21267.2	5.02039	mg/L	0.026838	5.02039	mg/L	0.026838	0.53%
QC value within limits for Ca 315.887 Recovery = 100.41%								
Fe 273.955†	294.8	0.296907	mg/L	0.0019367	0.296907	mg/L	0.0019367	0.65%
QC value within limits for Fe 273.955 Recovery = 98.97%								
Mg 279.077†	3494.8	5.02810	mg/L	0.000586	5.02810	mg/L	0.000586	0.01%
QC value within limits for Mg 279.077 Recovery = 100.56%								
Mn 257.610†	1243.5	0.0408035	mg/L	0.00044562	0.0408035	mg/L	0.00044562	1.09%
QC value within limits for Mn 257.610 Recovery = 102.01%								
K 766.490†	12233.7	5.08571	mg/L	0.023796	5.08571	mg/L	0.023796	0.47%
QC value within limits for K 766.490 Recovery = 101.71%								
Na 589.592†	48625.1	5.13923	mg/L	0.049910	5.13923	mg/L	0.049910	0.97%
QC value within limits for Na 589.592 Recovery = 102.78%								
Ti 334.940†	1503.7	0.0503580	mg/L	0.00014510	0.0503580	mg/L	0.00014510	0.29%
QC value within limits for Ti 334.940 Recovery = 100.72%								

All analyte(s) passed QC.

Sequence No.: 42
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 2/28/2018 11:46:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	16584.5	88.8184	%	0.60108				0.68%
Sc 361.383	39836.2	88.5	%	0.75				0.85%
Al 308.215†	11.2	-0.0025111	mg/L	0.00898510	-0.0025111	mg/L	0.00898510	357.82%
QC value within limits for Al 308.215 Recovery = Not calculated								
Ca 315.887†	41.2	-0.128497	mg/L	0.0010533	-0.128497	mg/L	0.0010533	0.82%
QC value within limits for Ca 315.887 Recovery = Not calculated								
Fe 273.955†	-9.3	-0.0227854	mg/L	0.00777932	-0.0227854	mg/L	0.00777932	34.14%
QC value within limits for Fe 273.955 Recovery = Not calculated								
Mg 279.077†	-16.1	-0.188581	mg/L	0.0202365	-0.188581	mg/L	0.0202365	10.73%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	19.5	-0.0010256	mg/L	0.00048857	-0.0010256	mg/L	0.00048857	47.64%
QC value within limits for Mn 257.610 Recovery = Not calculated								
K 766.490†	45.2	0.0178168	mg/L	0.04822691	0.0178168	mg/L	0.04822691	270.68%
QC value within limits for K 766.490 Recovery = Not calculated								
Na 589.592†	433.6	0.0667919	mg/L	0.00627655	0.0667919	mg/L	0.00627655	9.40%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ti 334.940†	-4.9	-0.0009214	mg/L	0.00027689	-0.0009214	mg/L	0.00027689	30.05%
QC value within limits for Ti 334.940 Recovery = Not calculated								

All analyte(s) passed QC.

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-268728

Prepared By: Aliano, Carmela
Description: 1:1 HCl WARNING
Prep Date: 12/6/2017
Expiration Date: 5/6/2018
Department: Metals
BatchNumber:
Concentration: Reagent reag
Final Volume: 1000 ml
ApprovedBy: shiamala
ApproveDate: 12/08/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O	500 ml		
11301	Hydrochloric Acid	500 ml	neat neat	

Veritech Lot Number: V-270557

Prepared By: Cousineau, Paul
Description: Antimony Intermediate 1PPM
Prep Date: 1/2/2018
Expiration Date: 7/1/2018
Department: Metals
BatchNumber:
Concentration: 1000 ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 01/02/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
11242	Nitric Acid	2.5 ml	NEAT neat	
11353	ANTIMONY	.1 ml	1000 ug/ml	

Veritech Lot Number: V-270561

Prepared By: Cousineau, Paul
Description: 6020 CALIBRATION STOCK
Prep Date: 1/2/2018
Expiration Date: 3/29/2018
Department: Metals
BatchNumber:
Concentration: VARIOUS pp
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 01/02/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
11242	Nitric Acid	2 ml	NEAT neat	
11049	ALUMINUIM 10K	.725 ml	NEAT neat	72.5
11048	CALCIUM 10K	2.5 ml	NEAT neat	250
11051	IRON 10K	2.5 ml	NEAT neat	250
11050	MAGNESIUM 10K	2.5 ml	NEAT neat	250
11360	POTASSIUM 10K	2.5 ml	10000 ug/ml	250
11344	SODIUM Na 10K	2.5 ml	10000 ug/ml	250
11355	SELENIUM	1 ml	1000 ug.ml	10
10886	CALIBRATION STANDARD	12.5 ml	NEAT neat	2.5

Veritech Lot Number: V-274288

Prepared By: Cousineau, Paul
Description: Cal Blk WARNING
Prep Date: 2/25/2018
Expiration Date: 3/4/2018
Department: Metals
BatchNumber: B-24604
Concentration: 0 ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 03/01/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
11333	Nitric Acid	2.5 ml	neat neat	

Veritech Lot Number: V-274289

Prepared By: Cousineau, Paul
Description: Cal Std-1 WARNING
Prep Date: 2/25/2018
Expiration Date: 3/4/2018
Department: Metals
BatchNumber: B-24604
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 03/01/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
11333	Nitric Acid	2.5 ml	neat neat	
V-270561	6020 CALIBRATION STOCK	.02 ml	VARIOUS pp	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-274290

Prepared By: Cousineau, Paul
Description: Cal Std-2 WARNING
Prep Date: 2/25/2018
Expiration Date: 3/4/2018
Department: Metals
BatchNumber: B-24604
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 03/01/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11333	Nitric Acid	2.5 ml	neat neat	
11248	DI H2O			
V-270561	6020 CALIBRATION STOCK	.2 ml	VARIOUS pp	

Veritech Lot Number: V-274291

Prepared By: Cousineau, Paul
Description: Cal Std-3 WARNING
Prep Date: 2/25/2018
Expiration Date: 3/4/2018
Department: Metals
BatchNumber: B-24604
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 03/01/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
11333	Nitric Acid	2.5 ml	neat neat	
V-270561	6020 CALIBRATION STOCK	.4 ml	VARIOUS pp	

Veritech Lot Number: V-274292

Prepared By: Cousineau, Paul
Description: Cal Std-4 WARNING
Prep Date: 2/25/2018
Expiration Date: 3/4/2018
Department: Metals
BatchNumber: B-24604
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 03/01/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
11333	Nitric Acid	2.5 ml	neat neat	
V-270561	6020 CALIBRATION STOCK	2 ml	VARIOUS pp	

Veritech Lot Number: V-274293

Prepared By: Cousineau, Paul
Description: Cal Std-5 WARNING
Prep Date: 2/25/2018
Expiration Date: 3/4/2018
Department: Metals
BatchNumber: B-24604
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 03/01/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11333	Nitric Acid	2.5 ml	neat neat	
11248	DI H2O			
V-270561	6020 CALIBRATION STOCK	4 ml	VARIOUS pp	

Veritech Lot Number: V-274294

Prepared By: Cousineau, Paul
Description: ICV WARNING
Prep Date: 2/25/2018
Expiration Date: 3/4/2018
Department: Metals
BatchNumber: B-24604
Concentration: various ppb
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 03/01/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
11333	Nitric Acid	2.5 ml	neat neat	
11054	6020 ICV Ag ONLY	.1 ml	NEAT neat	
11055	6020 ICV	.1 ml	NEAT neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-274295

Prepared By: Cousineau, Paul | Department: Metals | ApprovedBy: shiamala
Description: ICB/CCB WARNING | BatchNumber: B-24604 | ApproveDate: 03/01/18
Prep Date: 2/25/2018 | Concentration: 0 ppb | Checked: Yes
Expiration Date: 3/4/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
11333	Nitric Acid	2.5 ml	neat neat	

Veritech Lot Number: V-274296

Prepared By: Cousineau, Paul | Department: Metals | ApprovedBy: shiamala
Description: ICSA WARNING | BatchNumber: B-24604 | ApproveDate: 03/01/18
Prep Date: 2/25/2018 | Concentration: various ppb | Checked: Yes
Expiration Date: 3/4/2018 | Final Volume: 50 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
11333	Nitric Acid	1.25 ml	neat neat	
10887	INTERFERENTS a	2.5 ml	NEAT neat	

Veritech Lot Number: V-274297

Prepared By: Cousineau, Paul | Department: Metals | ApprovedBy: shiamala
Description: ICSAB WARNING | BatchNumber: B-24604 | ApproveDate: 03/01/18
Prep Date: 2/25/2018 | Concentration: various ppb | Checked: Yes
Expiration Date: 3/4/2018 | Final Volume: 50 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
11333	Nitric Acid	1.25 ml	neat neat	2.5 %
10887	INTERFERENTS a	2.5	NEAT neat	
11230	ANALYTES B	.5	NEAT neat	

Veritech Lot Number: V-274298

Prepared By: Cousineau, Paul | Department: Metals | ApprovedBy: shiamala
Description: CCV WARNING | BatchNumber: B-24604 | ApproveDate: 03/01/18
Prep Date: 2/25/2018 | Concentration: various ppb | Checked: Yes
Expiration Date: 3/4/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
11333	Nitric Acid	2.5 ml	neat neat	
V-270561	6020 CALIBRATION STOCK	2 ml	VARIOUS pp	

Veritech Lot Number: V-274300

Prepared By: Cousineau, Paul | Department: Metals | ApprovedBy: shiamala
Description: LL-ICV/CCV AQ. WARNING | BatchNumber: | ApproveDate: 03/01/18
Prep Date: 2/25/2018 | Concentration: various ppb | Checked: Yes
Expiration Date: 3/4/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
11333	Nitric Acid	2.5 ml	neat neat	
11089	LL ICV/CCV 6020 Aq	.5 ml	NEAT neat	
V-270557	Antimony Intermediate 1PPM	.05 ml	1000 ppb	

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 10886

Description
CALIBRATION STANDARD

ApprovedBy: shiamala
ApproveDate: 04/14/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	CL-CAL-1	CL3-134MKBY	04/07/17	04/30/18	Aliano, Carmela	1	125ml	NEAT	NEAT

Veritech Control/Receipt Number: 10887

Description
INTERFERENTS a

ApprovedBy: shiamala
ApproveDate: 04/14/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	CL-INT-A1	CL1-123MKBY	04/07/17	04/30/18	Aliano, Carmela	1	125m	NEAT	NEAT

Veritech Control/Receipt Number: 11048

Description
CALCIUM 10K

ApprovedBy: shiamala
ApproveDate: 07/14/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLCA2-3X	AU16-161CAX	07/10/17	07/30/18	Aliano, Carmela	1	500ml	NEAT	NEAT

Veritech Control/Receipt Number: 11049

Description
ALUMINUIM 10K

ApprovedBy: shiamala
ApproveDate: 07/14/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLAL2-3X	AL16-188ALX	07/10/17	07/30/18	Aliano, Carmela	1	500ml	NEAT	NEAT

Veritech Control/Receipt Number: 11050

Description
MAGNESIUM 10K

ApprovedBy: shiamala
ApproveDate: 07/14/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLMG2-3X	AL16-178MGX	07/10/17	07/30/18	Aliano, Carmela	1	500ml	NEAT	NEAT

Veritech Control/Receipt Number: 11051

Description
IRON 10K

ApprovedBy: shiamala
ApproveDate: 07/14/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	PLFE2-3Y	AM16-137FEY	07/10/17	07/30/18	Aliano, Carmela	2	125ml	NEAT	NEAT

Veritech Control/Receipt Number: 11054

Description
6020 ICV Ag ONLY

ApprovedBy: shiamala
ApproveDate: 07/14/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SCP SCIENCE	600-225-113	S170628008	07/12/17	07/30/18	Aliano, Carmela	1	125ml	NEAT	NEAT

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11055

Description
6020 ICV

ApprovedBy: shiamala
ApproveDate: 07/14/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SCP SCIENCE	600-225-112	S170628007	07/12/17	07/30/18	Aliano, Carmela	1	125ml	NEAT	NEAT

Veritech Control/Receipt Number: 11089

Description
LL ICV/CCV 6020 Aq

ApprovedBy: shiamala
ApproveDate: 12/06/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	ZHCV-14-100	24-160GS	07/25/17	07/30/18	Aliano, Carmela	1	125ml	NEAT	NEAT

Veritech Control/Receipt Number: 11230

Description
ANALYTES B

ApprovedBy: shiamala
ApproveDate: 12/06/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	CL-INT-B1	CL3-14MKBY	10/16/17	10/30/18	Aliano, Carmela	1	125ml	NEAT	NEAT

Veritech Control/Receipt Number: 11242

Description
Nitric Acid

ApprovedBy: jean
ApproveDate: 10/24/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9598-34	183840	10/24/17	08/10/22	Lopez, Jose	8	4L	NEAT	NEAT

Veritech Control/Receipt Number: 11248

Description
DI H2O

ApprovedBy: sean
ApproveDate: 10/26/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
siemanns	1	1	10/26/17	07/25/18	Berls, Sean R.	1			

Veritech Control/Receipt Number: 11301

Description
Hydrochloric Acid

ApprovedBy: sean
ApproveDate: 12/06/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9530-33	186764	11/30/17	09/29/22	Lopez, Jose	12	2.5L	neat	neat

Veritech Control/Receipt Number: 11333

Description
Nitric Acid

ApprovedBy: jean
ApproveDate: 12/19/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9598-34	187388	12/14/17	10/18/22	Burwell, John	8	2.5L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11344

Description
SODIUM Na 10K

ApprovedBy: shiamala
ApproveDate: 01/31/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
PERKIN ELMER	N9304124	AO17-4NAY1	12/28/17	06/30/19	Aliano, Carmela	1	125ml	10000	UG/ML

Veritech Control/Receipt Number: 11353

Description
ANTIMONY

ApprovedBy: shiamala
ApproveDate: 01/31/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
PERKIN ELMER	N9300207	22-174SBY1	12/29/17	02/28/19	Aliano, Carmela	1	125ml	1000	UG/ML

Veritech Control/Receipt Number: 11355

Description
SELENIUM

ApprovedBy: shiamala
ApproveDate: 01/31/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
PERKIN ELMER	N9300182	22-114SEY1	12/29/17	05/30/19	Aliano, Carmela	1	125ml	1000	UG.ML

Veritech Control/Receipt Number: 11360

Description
POTASSIUM 10K

ApprovedBy: shiamala
ApproveDate: 01/31/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
PERKIN ELMER	N9304121	AS16-157KY1	12/29/17	12/30/18	Aliano, Carmela	1	125ml	10000	UG/ML

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11488

Description
Nitric Acid

ApprovedBy: sean
ApproveDate: 03/01/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9598-34	187388	02/12/18	10/18/22	Burwell, John	4	2.5	neat	neat

Veritech Control/Receipt Number: 11505

Description
CALIBRATION STOCK 1

ApprovedBy: sean
ApproveDate: 03/01/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	XHCV-19-500	47-059CR	02/20/18	02/28/19	Aliano, Carmela	1	500m	NEAT	NEAT

Veritech Control/Receipt Number: 11506

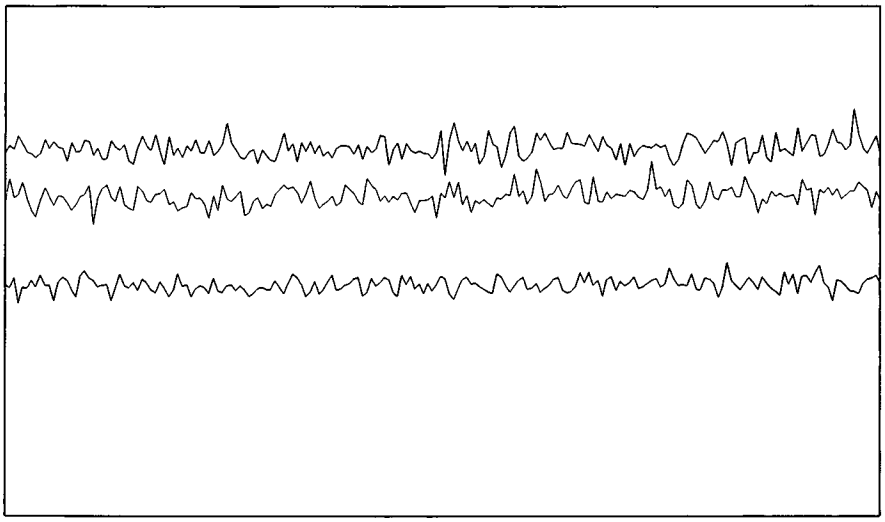
Description
CALIBRATION STOCK 2

ApprovedBy: sean
ApproveDate: 03/01/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SPEX	XHCV-20-500	47-060CR	02/20/18	02/28/19	Aliano, Carmela	1	500ml	NEAT	NEAT

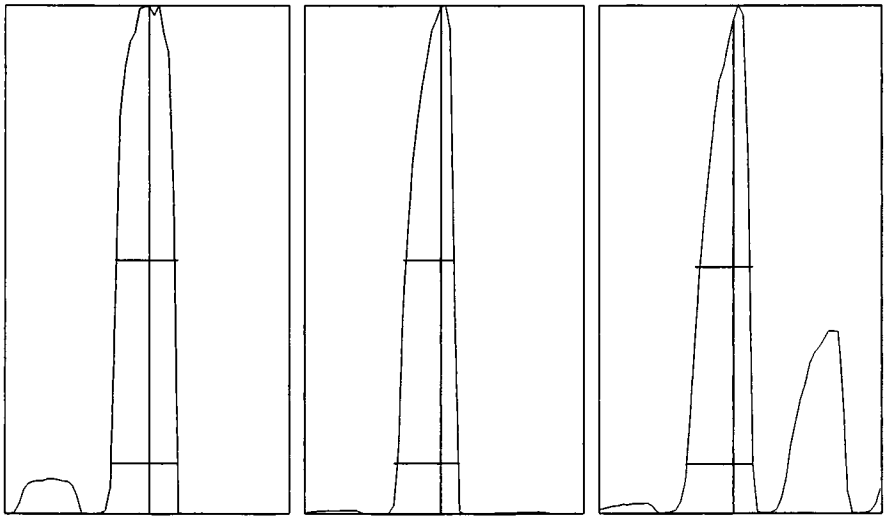
Tune Report

Tune File : ATUNE.U
Comment : TN022818



Integration Time:	0.1000 sec	
Sampling Period:	0.6200 sec	
n:	200	
Oxide:	156/140	0.7
Doubly Charged:	70/140	1.9

m/z	Range	Count	Mean	RSD%	Background
7	50,000	22858.0	22683.4	3.08	5.90
89	50,000	35501.0	36106.1	2.61	3.70
205	50,000	30930.0	31359.5	2.95	6.70
156/140	2	0.783%	0.808%	8.35	
70/140	5	2.314%	2.008%	8.22	



m/z:	7	89
Height:	22,706	36,123
Axis:	7.05	89.00
W-50%:	0.65	0.55
W-10%:	0.700	0.700

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Generated : Feb 28, 2018 10:27:03
Printed : Feb 28, 2018 10:27:06

Tune Report

Tune File : ATUNE.U
Comment : TN022818

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===		
RF Power	:	1500 W	Extract 1	:	0 V	AMU Gain	:	114
RF Matching	:	1.76 V	Extract 2	:	-135 V	AMU Offset	:	124
Smpl Depth	:	5.9 mm	Omega Bias-ce	:	-32 V	Axis Gain	:	1.0051
Torch-H	:	0.1 mm	Omega Lens-ce	:	-3.2 V	Axis Offset	:	-0.3
Torch-V	:	0.1 mm	Cell Entrance	:	-40 V	QP Bias	:	-4.5 V
Carrier Gas	:	1.07 L/min	QP Focus	:	4 V			
Makeup Gas	:	0.1 L/min	Cell Exit	:	-40 V	===Detector Parameters===		
Optional Gas	:	--- %				Discriminator	:	9.1 mV
Nebulizer Pump	:	0.1 rps	===Octopole Parameters===			Analog HV	:	1960 V
Sample Pump	:	--- rps	OctP RF	:	180 V	Pulse HV	:	1720 V
S/C Temp	:	2 degC	OctP Bias	:	-5 V			

===Reaction Cell===								
Reaction Mode	:	OFF						
H2 Gas	:	0 mL/min	He Gas	:	0 mL/min	Optional Gas	:	--- %

Generated : Feb 28, 2018 10:27:03
Printed : Feb 28, 2018 10:27:08

C:\ICPCHEM\1\DATA\T022818A.B\001TUNE.D

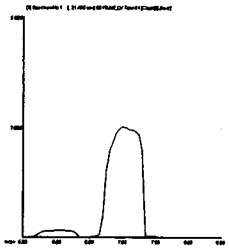
6020 Tune Check Sample

Data File: 001TUNE.D
Date Acquired: Feb 28 2018 10:42 am
Operator: PC
Sample Name:
Misc Info:
Vial Number: 5
Current Method: TN6020.M

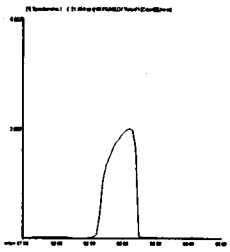
QC Tune Summary:
Pass

RSD%

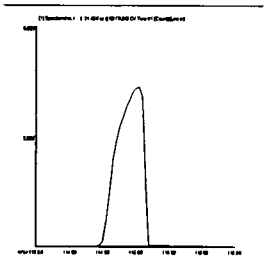
Element	Actual	Required	Flag
7 Li	1.86	5.00	0
59 Co	1.82	5.00	
115 In	3.64	5.00	
205 Tl	2.01	5.00	



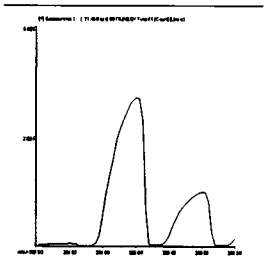
7 Li
Mass Calib.
Actual: 7.05
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.00
Required: 114.90 - 115.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:



205 Tl
Mass Calib.
Actual: 204.95
Required: 204.90 - 205.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\A022818A.b\001CALB.D\001CALB.D#
Date Acquired:	Feb 28 2018 10:56 am
Acq. Method:	6020AQ.M
Operator:	GK
Sample Name:	Rinse
Misc Info:	MS_7500 CALIBRATION
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update:	Feb 28 2018 11:00 am
Sample Type:	CalBlk

File A022818A
By 22208
QC- 44948

Run 4

Report As, Be, Cd, Co, Pb, Sb, Se, Tl for MB, LCS, LCSMR, 02743-006, 007, 009

2/28/18

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	74	18.64
23	Na	45	1	62289	2.63
24	Mg	45	1	1192	14.18
27	Al	45	1	974	11.34
39	K	45	1	43864	4.36
44	Ca	45	1	397	6.07
51	V	45	1	79	10.63
52	Cr	45	1	524	6.79
55	Mn	45	1	1276	0.86
56	Fe	45	1	29458	11.55
59	Co	45	1	301	12.83
60	Ni	45	1	146	7.52
65	Cu	45	1	832	5.53
66	Zn	45	1	668	8.67
75	As	115	1	26	7.28
78	Se	115	1	63	11.72
83	Kr	115	2	254	8.32
95	Mo	115	2	171	8.78
107	Ag	115	2	1350	5.58
111	Cd	115	2	30	16.97
121	Sb	115	2	3627	2.72
137	Ba	159	2	234	23.68
205	Tl	165	2	1531	3.74
206	(Pb)	165	2	2923	3.42
207	(Pb)	165	2	2390	2.48
208	Pb	165	2	11429	0.61

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
45	Sc	1	115757	4.30
45	Sc	2	1300301	0.30
115	In	1	485333	5.26
115	In	2	1743330	1.43
159	Tb	1	1298588	3.04
159	Tb	2	2668004	2.19
165	Ho	1	1287853	3.00
165	Ho	2	2644868	1.86

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\nogas.u
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#
Date Acquired:	Feb 28 2018 11:02 am
Acq. Method:	6020AQ.M
Operator:	GK
Sample Name:	CalBlk V-274288
Misc Info:	MS_7500 CALIBRATION
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update:	Feb 28 2018 11:00 am
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	121	16.13
23	Na	45	1	84434	0.83
24	Mg	45	1	5234	2.86
27	Al	45	1	3772	1.56
39	K	45	1	51773	0.24
44	Ca	45	1	1002	3.32
51	V	45	1	239	4.33
52	Cr	45	1	712	4.88
55	Mn	45	1	2618	2.27
56	Fe	45	1	106802	2.33
59	Co	45	1	472	6.34
60	Ni	45	1	236	8.87
65	Cu	45	1	1198	5.02
66	Zn	45	1	1035	2.83
75	As	115	1	33	3.46
78	Se	115	1	83	6.40
83	Kr	115	2	252	8.80
95	Mo	115	2	220	9.94
107	Ag	115	2	1289	4.42
111	Cd	115	2	51	9.73
121	Sb	115	2	2698	2.42
137	Ba	159	2	482	6.27
205	Tl	165	2	1391	6.88
206	(Pb)	165	2	4459	2.10
207	(Pb)	165	2	3647	4.55
208	Pb	165	2	17596	1.68

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
45	Sc	1	129088	0.60
45	Sc	2	1375882	10.27
115	In	1	556342	1.40
115	In	2	1851091	11.55
159	Tb	1	1424815	2.88
159	Tb	2	2834858	9.74
165	Ho	1	1403932	2.14
165	Ho	2	2826725	9.53

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\nogas.u
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\003CALI.D\003CALI.D#
Date Acquired: Feb 28 2018 11:08 am
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: CalStd1 V-274289
Misc Info: MS 7500 CALIBRATION
Vial Number: 1102
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Feb 28 2018 11:06 am
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	2350	0.86
23	Na	45	1	134339	1.16
24	Mg	45	1	42175	1.43
27	Al	45	1	9651	2.94
39	K	45	1	83683	0.82
44	Ca	45	1	2644	1.23
51	V	45	1	2677	0.43
52	Cr	45	1	3601	0.76
55	Mn	45	1	4670	1.46
56	Fe	45	1	376385	2.12
59	Co	45	1	4825	1.35
60	Ni	45	1	1266	2.65
65	Cu	45	1	2197	4.42
66	Zn	45	1	1304	2.90
75	As	115	1	316	4.71
78	Se	115	1	265	5.03
83	Kr	115	2	236	8.53
95	Mo	115	2	2496	3.22
107	Ag	115	2	7896	1.54
111	Cd	115	2	1419	4.72
121	Sb	115	2	6197	0.58
137	Ba	159	2	2173	1.92
205	Tl	165	2	15432	1.12
206	(Pb)	165	2	9086	3.40
207	(Pb)	165	2	7604	2.72
208	Pb	165	2	36087	1.18

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	131286	1.49	129088	101.7	80 - 120	
45	Sc	2	1286254	1.05	1375882	93.5	80 - 120	
115	In	1	565156	1.05	556342	101.6	80 - 120	
115	In	2	1732753	1.71	1851091	93.6	80 - 120	
159	Tb	1	1407642	0.71	1424815	98.8	80 - 120	
159	Tb	2	2667091	1.84	2834858	94.1	80 - 120	
165	Ho	1	1401237	0.92	1403932	99.8	80 - 120	
165	Ho	2	2679592	1.44	2826725	94.8	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\004CALI.D\004CALI.D#
Date Acquired: Feb 28 2018 11:14 am
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: CalStd2 V-274290
Misc Info: MS 7500 CALIBRATION
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Feb 28 2018 11:12 am
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	23740	1.43
23	Na	45	1	733440	2.55
24	Mg	45	1	384703	0.89
27	Al	45	1	67257	1.17
39	K	45	1	401597	0.97
44	Ca	45	1	19120	0.65
51	V	45	1	24765	0.87
52	Cr	45	1	29453	0.66
55	Mn	45	1	25539	1.23
56	Fe	45	1	2982038	1.30
59	Co	45	1	44816	0.74
60	Ni	45	1	11504	0.59
65	Cu	45	1	15728	1.02
66	Zn	45	1	5843	1.35
75	As	115	1	2872	1.80
78	Se	115	1	1969	4.08
83	Kr	115	2	248	10.96
95	Mo	115	2	23801	2.30
107	Ag	115	2	70274	1.49
111	Cd	115	2	13570	1.37
121	Sb	115	2	44338	1.48
137	Ba	159	2	18364	1.58
205	Tl	165	2	146788	3.03
206	(Pb)	165	2	56243	1.33
207	(Pb)	165	2	47477	1.93
208	Pb	165	2	220742	1.60

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	132797	0.94	129088	102.9	80 - 120	
45	Sc	2	1321396	0.28	1375882	96.0	80 - 120	
115	In	1	572941	1.61	556342	103.0	80 - 120	
115	In	2	1751571	1.38	1851091	94.6	80 - 120	
159	Tb	1	1442495	0.61	1424815	101.2	80 - 120	
159	Tb	2	2725092	1.22	2834858	96.1	80 - 120	
165	Ho	1	1423035	1.13	1403932	101.4	80 - 120	
165	Ho	2	2703605	2.05	2826725	95.6	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\005CALI.D\005CALI.D#
Date Acquired: Feb 28 2018 11:20 am
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: CalStd3 V-274291
Misc Info: MS 7500 CALIBRATION
Vial Number: 1104
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Feb 28 2018 11:18 am
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	46937	2.28
23	Na	45	1	1391335	1.78
24	Mg	45	1	767160	0.68
27	Al	45	1	130018	1.79
39	K	45	1	757425	1.25
44	Ca	45	1	36694	1.96
51	V	45	1	48982	1.66
52	Cr	45	1	58057	1.54
55	Mn	45	1	48392	1.31
56	Fe	45	1	5807308	0.37
59	Co	45	1	89203	1.58
60	Ni	45	1	23055	1.77
65	Cu	45	1	29790	1.09
66	Zn	45	1	10851	0.34
75	As	115	1	5608	2.17
78	Se	115	1	3841	1.75
83	Kr	115	2	253	3.95
95	Mo	115	2	47519	1.08
107	Ag	115	2	137854	0.50
111	Cd	115	2	26909	0.80
121	Sb	115	2	86280	0.57
137	Ba	159	2	35933	0.80
205	Tl	165	2	289087	1.76
206	(Pb)	165	2	106076	1.42
207	(Pb)	165	2	89626	1.07
208	Pb	165	2	420562	0.81

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	133456	1.93	129088	103.4	80 - 120	
45	Sc	2	1284714	0.79	1375882	93.4	80 - 120	
115	In	1	565024	1.65	556342	101.6	80 - 120	
115	In	2	1703266	0.53	1851091	92.0	80 - 120	
159	Tb	1	1413094	1.10	1424815	99.2	80 - 120	
159	Tb	2	2640672	1.22	2834858	93.2	80 - 120	
165	Ho	1	1399237	1.24	1403932	99.7	80 - 120	
165	Ho	2	2619964	1.80	2826725	92.7	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\006CALI.D\006CALI.D#
Date Acquired: Feb 28 2018 11:26 am
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: CalStd4 V-274292
Misc Info: MS 7500 CALIBRATION
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Feb 28 2018 11:24 am
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	239986	1.30
23	Na	45	1	6422083	0.91
24	Mg	45	1	3635085	1.22
27	Al	45	1	629676	0.98
39	K	45	1	3562589	0.64
44	Ca	45	1	179888	0.30
51	V	45	1	247149	0.67
52	Cr	45	1	287500	0.90
55	Mn	45	1	229656	0.71
56	Fe	45	1	28170740	0.58
59	Co	45	1	448822	1.18
60	Ni	45	1	113025	0.39
65	Cu	45	1	145657	1.15
66	Zn	45	1	49612	0.61
75	As	115	1	28395	0.84
78	Se	115	1	18672	1.52
83	Kr	115	2	240	10.85
95	Mo	115	2	244278	1.20
107	Ag	115	2	701903	1.21
111	Cd	115	2	135941	1.54
121	Sb	115	2	439631	1.53
137	Ba	159	2	186450	1.70
205	Tl	165	2	1656874	1.71
206	(Pb)	165	2	522425	1.67
207	(Pb)	165	2	445446	1.30
208	Pb	165	2	2189356	1.81

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	137276	1.99	129088	106.3	80 - 120	
45	Sc	2	1307047	1.24	1375882	95.0	80 - 120	
115	In	1	560931	1.38	556342	100.8	80 - 120	
115	In	2	1706269	2.44	1851091	92.2	80 - 120	
159	Tb	1	1442200	1.38	1424815	101.2	80 - 120	
159	Tb	2	2694456	2.79	2834858	95.0	80 - 120	
165	Ho	1	1430528	1.09	1403932	101.9	80 - 120	
165	Ho	2	2683027	2.65	2826725	94.9	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\A022818A.b\007CALI.D\007CALI.D#
Date Acquired:	Feb 28 2018 11:31 am
Acq. Method:	6020AQ.M
Operator:	GK
Sample Name:	CalStd5 V-274293
Misc Info:	MS 7500 CALIBRATION
Vial Number:	1106
Current Method:	C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update:	Feb 28 2018 11:30 am
Sample Type:	CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	480554	2.99
23	Na	45	1	13039630	1.07
24	Mg	45	1	7421471	1.40
27	Al	45	1	1301945	1.36
39	K	45	1	7111116	1.26
44	Ca	45	1	368694	1.20
51	V	45	1	508299	0.18
52	Cr	45	1	585652	0.92
55	Mn	45	1	469616	0.58
56	Fe	45	1	56351352	0.78
59	Co	45	1	941253	1.59
60	Ni	45	1	226176	0.67
65	Cu	45	1	287472	0.76
66	Zn	45	1	98550	0.94
75	As	115	1	57564	0.24
78	Se	115	1	37818	1.07
83	Kr	115	2	239	27.43
95	Mo	115	2	484140	3.93
107	Ag	115	2	1430859	4.38
111	Cd	115	2	267003	4.07
121	Sb	115	2	870260	3.62
137	Ba	159	2	368426	3.12
205	Tl	165	2	3237053	3.66
206	(Pb)	165	2	1149061	4.85
207	(Pb)	165	2	862127	4.00
208	Pb	165	2	4348677	4.05

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	138244	1.27	129088	107.1	80 - 120	
45	Sc	2	1240390	3.88	1375882	90.2	80 - 120	
115	In	1	565728	1.52	556342	101.7	80 - 120	
115	In	2	1588319	4.80	1851091	85.8	80 - 120	
159	Tb	1	1438279	1.27	1424815	100.9	80 - 120	
159	Tb	2	2524789	4.62	2834858	89.1	80 - 120	
165	Ho	1	1426426	0.94	1403932	101.6	80 - 120	
165	Ho	2	2508818	4.78	2826725	88.8	80 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\noqas.u
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Initial Calibration Verification (ICV) QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\008_ICV.D\008_ICV.D#
Date Acquired: Feb 28 2018 11:37 am
Operator: GK
Sample Name: ICV V-274294
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1109
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: Feb 28 2018 11:35 am
Sample Type: 6-ICV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	47.01	ppb	1.65	237921	50	94.0	90 - 110	
23 Na	45	1	5196.00	ppb	0.65	6890897	5000	103.9	90 - 110	
24 Mg	45	1	5159.00	ppb	0.13	3873177	5000	103.2	90 - 110	
27 Al	45	1	5199.00	ppb	0.94	2270229	5000	104.0	90 - 110	
39 K	45	1	5319.00	ppb	1.96	3859987	5000	106.4	90 - 110	
44 Ca	45	1	5368.00	ppb	1.09	200239	5000	107.4	90 - 110	
51 V	45	1	49.95	ppb	1.59	256258	50	99.9	90 - 110	
52 Cr	45	1	50.72	ppb	1.05	300664	50	101.4	90 - 110	
55 Mn	45	1	50.96	ppb	1.21	242844	50	101.9	90 - 110	
56 Fe	45	1	5086.00	ppb	1.43	29136510	5000	101.7	90 - 110	
59 Co	45	1	48.09	ppb	1.83	455167	50	96.2	90 - 110	
60 Ni	45	1	49.98	ppb	0.94	114826	50	100.0	90 - 110	
65 Cu	45	1	51.26	ppb	2.50	150441	50	102.5	90 - 110	
66 Zn	45	1	51.61	ppb	2.00	52108	50	103.2	90 - 110	
75 As	115	1	50.32	ppb	0.62	29928	50	100.6	90 - 110	
78 Se	115	1	52.03	ppb	0.54	4143	50	104.1	90 - 110	
83 Kr	115	2	--------	ppb	--------	234	50	#VALUE!	##### - #####	
95 Mo	115	2	46.02	ppb	1.59	241351	50	92.0	90 - 110	
107 Ag	115	2	9.08	ppb	1.96	140966	10	90.8	90 - 110	
111 Cd	115	2	47.65	ppb	0.90	138097	50	95.3	90 - 110	
121 Sb	115	2	45.80	ppb	1.33	432759	50	91.6	90 - 110	
137 Ba	159	2	47.33	ppb	0.84	186921	50	94.7	90 - 110	
205 Tl	165	2	47.12	ppb	0.79	1661275	50	94.2	90 - 110	
206 (Pb)	165	2	41.41	ppb	1.12	509419	50	82.8	90 - 110	
207 (Pb)	165	2	46.95	ppb	0.35	443615	50	93.9	90 - 110	
208 Pb	165	2	45.31	ppb	0.70	2147497	50	90.6	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	140059	0.89	129088	108.5	80 - 120	
45 Sc	2	1319845	1.10	1375882	95.9	80 - 120	
115 In	1	585030	1.03	556342	105.2	80 - 120	
115 In	2	1740904	1.32	1851091	94.0	80 - 120	
159 Tb	1	1473319	0.94	1424815	103.4	80 - 120	
159 Tb	2	2731761	1.56	2834858	96.4	80 - 120	
165 Ho	1	1456500	0.47	1403932	103.7	80 - 120	
165 Ho	2	2756339	1.27	2826725	97.5	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Initial Calibration Verification (ICV) QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\009_CCV.D\009_CCV.D#
Date Acquired: Feb 28 2018 11:43 am
Operator: GK
Sample Name: LLICV V-274300
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3105
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: Feb 28 2018 11:35 am
Sample Type: LL-ICV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	0.50	ppb	6.17	2603	1	100.4	70 - 130	
23 Na	45	1	286.00	ppb	0.58	445181	250	114.4	70 - 130	
24 Mg	45	1	278.50	ppb	0.65	204979	250	111.4	70 - 130	
27 Al	45	1	113.00	ppb	0.93	50976	100	113.0	70 - 130	
39 K	45	1	282.10	ppb	0.27	246535	250	112.8	70 - 130	
44 Ca	45	1	286.10	ppb	1.40	11185	250	114.4	70 - 130	
51 V	45	1	1.08	ppb	2.41	5519	1	107.6	70 - 130	
52 Cr	45	1	1.09	ppb	1.55	6890	1	108.9	70 - 130	
55 Mn	45	1	3.48	ppb	1.08	18374	3	116.0	70 - 130	
56 Fe	45	1	182.40	ppb	0.80	1105327	150	121.6	70 - 130	
59 Co	45	1	1.03	ppb	1.71	9787	1	102.9	70 - 130	
60 Ni	45	1	1.81	ppb	2.21	4207	2	120.6	70 - 130	
65 Cu	45	1	5.39	ppb	4.23	16232	5	107.9	70 - 130	
66 Zn	45	1	11.92	ppb	2.53	12322	10	119.2	70 - 130	
75 As	115	1	1.03	ppb	2.66	639	1	103.2	70 - 130	
78 Se	115	1	5.30	ppb	3.91	494	5	105.9	70 - 130	
83 Kr	115	2	--------	ppb	--------	269	1	#VALUE!	##### - #####	
95 Mo	115	2	1.00	ppb	2.52	5411	1	100.0	70 - 130	
107 Ag	115	2	0.45	ppb	1.65	8123	1	90.3	70 - 130	
111 Cd	115	2	0.97	ppb	2.37	2832	1	96.7	70 - 130	
121 Sb	115	2	1.25	ppb	0.53	14186	2	83.2	70 - 130	
137 Ba	159	2	2.48	ppb	2.13	10214	3	99.2	70 - 130	
205 Tl	165	2	0.90	ppb	1.10	32465	1	89.8	70 - 130	
206 (Pb)	165	2	1.35	ppb	1.01	20449	2	89.7	70 - 130	
207 (Pb)	165	2	1.51	ppb	2.11	17456	2	100.8	70 - 130	
208 Pb	165	2	1.40	ppb	0.69	81887	2	93.6	70 - 130	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	133849	1.64	129088	103.7	80 - 120	
45 Sc	2	1292601	0.68	1375882	93.9	80 - 120	
115 In	1	577305	0.95	556342	103.8	80 - 120	
115 In	2	1729885	1.83	1851091	93.5	80 - 120	
159 Tb	1	1432047	0.54	1424815	100.5	80 - 120	
159 Tb	2	2726312	0.52	2834858	96.2	80 - 120	
165 Ho	1	1424461	1.15	1403932	101.5	80 - 120	
165 Ho	2	2711398	0.47	2826725	95.9	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Initial Calibration Blank (ICB) QC Report

Data File:	C:\ICPCHEM\1\DATA\A022818A.b\010_ICB.D\010_ICB.D#
Date Acquired:	Feb 28 2018 11:49 am
Operator:	GK
Sample Name:	ICB V-274295
Misc Info:	MS_7500 6020 AQUEOUS
Vial Number:	3102
Current Method:	C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update:	Feb 28 2018 11:35 am
Sample Type:	6-ICB
Total Dil Factor:	1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.02	ppb	34.48	220	0.50	
23 Na	45	1	-4.72	ppb	38.83	83123	250.00	
24 Mg	45	1	5.22	ppb	15.13	9334	250.00	
27 Al	45	1	5.91	ppb	12.73	6490	100.00	
39 K	45	1	0.09	ppb	1689.20	54721	250.00	
44 Ca	45	1	7.60	ppb	35.73	1332	250.00	
51 V	45	1	0.04	ppb	4.60	466	1.00	
52 Cr	45	1	0.04	ppb	30.89	984	1.00	
55 Mn	45	1	0.10	ppb	22.58	3232	3.00	
56 Fe	45	1	12.03	ppb	4.15	179547	150.00	
59 Co	45	1	0.03	ppb	14.60	747	1.00	
60 Ni	45	1	0.01	ppb	52.71	282	1.50	
65 Cu	45	1	-0.08	ppb	23.44	1027	5.00	
66 Zn	45	1	-0.38	ppb	6.48	732	10.00	
75 As	115	1	0.05	ppb	10.73	64	1.00	
78 Se	115	1	0.35	ppb	54.67	115	5.00	
83 Kr	115	2	--------	ppb	--------	268	1.00	
95 Mo	115	2	0.05	ppb	26.61	459	1.00	
107 Ag	115	2	0.01	ppb	58.00	1433	0.50	
111 Cd	115	2	0.03	ppb	21.12	134	1.00	
121 Sb	115	2	-0.17	ppb	3.54	976	1.00	
137 Ba	159	2	0.04	ppb	27.07	614	2.50	
205 Tl	165	2	0.01	ppb	22.03	1754	1.00	
206 (Pb)	165	2	0.05	ppb	47.05	4936	1.50	
207 (Pb)	165	2	0.05	ppb	48.09	3989	1.50	
208 Pb	165	2	0.05	ppb	25.71	19056	1.50	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	136275	0.08	129088	105.6	80 - 120	
45 Sc	2	1284608	1.31	1375882	93.4	80 - 120	
115 In	1	586600	0.36	556342	105.4	80 - 120	
115 In	2	1729071	2.35	1851091	93.4	80 - 120	
159 Tb	1	1465932	0.96	1424815	102.9	80 - 120	
159 Tb	2	2692637	1.64	2834858	95.0	80 - 120	
165 Ho	1	1446360	0.35	1403932	103.0	80 - 120	
165 Ho	2	2704853	1.03	2826725	95.7	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

0 :Element Failures — 0 :Max. Number of Failures Allowed
0 :ISTD Failures — 0 :Max. Number of ISTD Failures Allowed

Interference Check Solution A (ICS-A) QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\011ICSA.D\011ICSA.D#
Date Acquired: Feb 28 2018 11:55 am
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: ICSA V-274296
Misc Info: MS 7500 6020 AQUEOUS
Vial Number: 1107
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Feb 28 2018 11:35 am
Sample Type: 6-ICSA
Dilution Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element		IS Ref	Tune	Conc.	RSD(%)	High Limit ppb	Flag
9	Be	45	2	0.02 ppb	36.14	0.50	
23	Na	45	1	115800.00 ppb	2.66	250.00	
24	Mg	45	1	44580.00 ppb	2.22	250.00	
27	Al	45	1	44920.00 ppb	2.96	100.00	
39	K	45	1	47580.00 ppb	3.05	250.00	
44	Ca	45	1	148300.00 ppb	3.56	250.00	
51	V	45	1	0.08 ppb	5.95	1.00	
52	Cr	45	1	0.39 ppb	2.37	1.00	
55	Mn	45	1	1.26 ppb	3.16	3.00	
56	Fe	45	1	108300.00 ppb	2.85	150.00	
59	Co	45	1	0.18 ppb	8.02	1.00	
60	Ni	45	1	0.36 ppb	9.52	1.50	
65	Cu	45	1	0.22 ppb	20.58	5.00	
66	Zn	45	1	0.43 ppb	19.31	10.00	
75	As	115	1	0.30 ppb	6.61	1.00	
78	Se	115	1	0.53 ppb	35.60	5.00	
83	Kr	115	2	-------- ppb	--------	1.00	
95	Mo	115	2	982.00 ppb	0.71	1.00	
107	Ag	115	2	0.04 ppb	17.19	0.50	
111	Cd	115	2	1.13 ppb	1.60	1.00	**
121	Sb	115	2	0.19 ppb	15.52	1.00	
137	Ba	159	2	0.80 ppb	5.03	2.50	
205	Tl	165	2	0.01 ppb	43.17	1.00	
206	(Pb)	165	2	0.03 ppb	47.06	1.50	
207	(Pb)	165	2	0.05 ppb	7.16	1.50	
208	Pb	165	2	0.04 ppb	20.84	1.50	

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	143089	1.30	129088	110.8	70 - 150	
45	Sc	2	1350544	1.07	1375882	98.2	70 - 150	
115	In	1	514963	1.08	556342	92.6	70 - 150	
115	In	2	1594206	0.97	1851091	86.1	70 - 150	
159	Tb	1	1333545	1.03	1424815	93.6	70 - 150	
159	Tb	2	2567558	0.76	2834858	90.6	70 - 150	
165	Ho	1	1330845	1.98	1403932	94.8	70 - 150	
165	Ho	2	2575652	0.69	2826725	91.1	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

1 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Nnumber of ISTD Failures Allowed

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\012ICSB.D\012ICSB.D#
Date Acquired: Feb 28 2018 12:01 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: ICSAB V-274297
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1108
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Feb 28 2018 11:35 am
Sample Type: 6-ICSAB
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Flag
9 Be	45	2	0.02	44.71	---		-	
23 Na	45	1	123000.00	0.64	---		-	
24 Mg	45	1	47280.00	1.74	---		-	
27 Al	45	1	47420.00	1.12	---		-	
39 K	45	1	49480.00	0.33	---		-	
44 Ca	45	1	152400.00	1.41	---		-	
51 V	45	1	219.80	1.46	200	109.9	80 - 120	
52 Cr	45	1	213.10	0.92	200	106.6	80 - 120	
55 Mn	45	1	213.60	0.58	200	106.8	80 - 120	
56 Fe	45	1	114400.00	0.51	---		-	
59 Co	45	1	199.90	1.26	200	100.0	80 - 120	
60 Ni	45	1	190.00	0.82	200	95.0	80 - 120	
65 Cu	45	1	188.90	0.49	---		-	
66 Zn	45	1	87.29	1.45	100	87.3	80 - 120	
75 As	115	1	105.30	0.65	100	105.3	80 - 120	
78 Se	115	1	97.36	0.68	100	97.4	80 - 120	
83 Kr	115	2	---	---	---		-	
95 Mo	115	2	955.80	1.69	---		-	
107 Ag	115	2	43.73	1.19	50	87.5	80 - 120	
111 Cd	115	2	93.15	0.73	100	93.2	80 - 120	
121 Sb	115	2	0.18	4.09	---		-	
137 Ba	159	2	0.71	1.10	---		-	
205 Tl	165	2	0.00	54.05	---		-	
206 (Pb)	165	2	0.06	29.40	---		-	
207 (Pb)	165	2	0.10	20.59	---		-	
208 Pb	165	2	0.08	20.75	---		-	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	136471	0.27	129088	105.7	70 - 150	
45 Sc	2	1339808	0.46	1375882	97.4	70 - 150	
115 In	1	519968	0.96	556342	93.5	70 - 150	
115 In	2	1604108	1.26	1851091	86.7	70 - 150	
159 Tb	1	1364843	1.88	1424815	95.8	70 - 150	
159 Tb	2	2568690	0.72	2834858	90.6	70 - 150	
165 Ho	1	1347155	1.20	1403932	96.0	70 - 150	
165 Ho	2	2587967	1.26	2826725	91.6	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\013SMPL.D\013SMPL.D#
Date Acquired: Feb 28 2018 12:06 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: RINSE
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Feb 28 2018 11:35 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.04	0.04	ppb	23.60	346	2700	
23 Na	45	1	113.70	113.70	ppb	2.26	241090	225000	
24 Mg	45	1	50.95	50.95	ppb	2.77	43997	225000	
27 Al	45	1	47.38	47.38	ppb	1.46	24808	225000	
39 K	45	1	49.44	49.44	ppb	2.03	91779	225000	
44 Ca	45	1	144.30	144.30	ppb	2.74	6458	225000	
51 V	45	1	0.17	0.17	ppb	3.10	1139	2250	
52 Cr	45	1	0.16	0.16	ppb	6.83	1713	2250	
55 Mn	45	1	0.31	0.31	ppb	12.39	4296	2250	
56 Fe	45	1	125.40	125.40	ppb	4.60	833563	180000	
59 Co	45	1	0.15	0.15	ppb	6.53	1920	2250	
60 Ni	45	1	0.16	0.16	ppb	6.83	619	2250	
65 Cu	45	1	0.15	0.15	ppb	16.37	1747	2700	
66 Zn	45	1	2.69	2.69	ppb	0.72	3789	2700	
75 As	115	1	0.13	0.13	ppb	10.01	119	2700	
78 Se	115	1	0.40	0.40	ppb	27.91	124	2700	
83 Kr	115	2	----	--------	ppb	--------	238	2700	
95 Mo	115	2	0.86	0.86	ppb	2.07	4982	2700	
107 Ag	115	2	-0.02	-0.02	ppb	19.43	1002	900	
111 Cd	115	2	0.09	0.09	ppb	3.06	340	2700	
121 Sb	115	2	-0.17	-0.17	ppb	1.15	980	2700	
137 Ba	159	2	0.08	0.08	ppb	7.52	792	2700	
205 Tl	165	2	0.03	0.03	ppb	7.04	2359	2700	
206 (Pb)	165	2	0.10	0.10	ppb	10.67	5705	2700	
207 (Pb)	165	2	0.13	0.13	ppb	7.74	4845	2700	
208 Pb	165	2	0.11	0.11	ppb	2.27	22482	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	140424	0.46	129088	108.8	70 - 150	
45 Sc	2	1341763	1.94	1375882	97.5	70 - 150	
115 In	1	610351	2.07	556342	109.7	70 - 150	
115 In	2	1832603	0.71	1851091	99.0	70 - 150	
159 Tb	1	1515724	0.70	1424815	106.4	70 - 150	
159 Tb	2	2797968	1.08	2834858	98.7	70 - 150	
165 Ho	1	1496727	0.47	1403932	106.6	70 - 150	
165 Ho	2	2779148	0.72	2826725	98.3	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\014SMPL.D\014SMPL.D#
Date Acquired: Feb 28 2018 12:12 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: AD02643-006
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1110
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Feb 28 2018 11:35 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.00	0.00	ppb	107.37	113	2700	
23 Na	45	1	37.38	37.38	ppb	5.00	138926	225000	
24 Mg	45	1	17.71	17.71	ppb	4.31	18741	225000	
27 Al	45	1	18.16	18.16	ppb	4.21	11872	225000	
39 K	45	1	18.39	18.39	ppb	9.82	68534	225000	
44 Ca	45	1	55.75	55.75	ppb	3.47	3119	225000	
51 V	45	1	0.05	0.05	ppb	10.16	522	2250	
52 Cr	45	1	0.05	0.05	ppb	14.94	1026	2250	
55 Mn	45	1	0.03	0.03	ppb	77.56	2933	2250	
56 Fe	45	1	47.39	47.39	ppb	3.26	381908	180000	
59 Co	45	1	0.03	0.03	ppb	10.54	820	2250	
60 Ni	45	1	0.06	0.06	ppb	5.41	386	2250	
65 Cu	45	1	0.11	0.11	ppb	59.13	1610	2700	
66 Zn	45	1	7.53	7.53	ppb	0.92	8463	2700	
75 As	115	1	0.03	0.03	ppb	24.01	52	2700	
78 Se	115	1	0.03	0.03	ppb	210.12	93	2700	
83 Kr	115	2	----	--------	ppb	--------	248	2700	
95 Mo	115	2	0.37	0.37	ppb	5.39	2258	2700	
107 Ag	115	2	0.00	0.00	ppb	582.11	1261	900	
111 Cd	115	2	0.03	0.03	ppb	13.09	149	2700	
121 Sb	115	2	-0.22	-0.22	ppb	1.20	540	2700	
137 Ba	159	2	0.01	0.01	ppb	140.41	530	2700	
205 Tl	165	2	-0.01	-0.01	ppb	10.30	890	2700	
206 (Pb)	165	2	0.01	0.01	ppb	145.70	4591	2700	
207 (Pb)	165	2	0.03	0.03	ppb	26.82	3933	2700	
208 Pb	165	2	0.02	0.02	ppb	55.96	18399	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	138488	1.51	129088	107.3	70 - 150	
45 Sc	2	1345901	1.46	1375882	97.8	70 - 150	
115 In	1	604758	1.12	556342	108.7	70 - 150	
115 In	2	1821247	1.52	1851091	98.4	70 - 150	
159 Tb	1	1526178	1.60	1424815	107.1	70 - 150	
159 Tb	2	2826012	0.46	2834858	99.7	70 - 150	
165 Ho	1	1495538	1.11	1403932	106.5	70 - 150	
165 Ho	2	2811836	0.84	2826725	99.5	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\015SMPL.D\015SMPL.D#
Date Acquired: Feb 28 2018 12:18 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: AD02639-001 2X
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1409
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Feb 28 2018 11:35 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.00	0.00	ppb	192.64	116	2700	
23 Na	45	1	1,696,000.00	1696000.00	ppb	0.82	1947295000	225000	>LDR
24 Mg	45	1	203,000.00	203000.00	ppb	0.84	133526800	225000	
27 Al	45	1	151.00	151.00	ppb	0.96	61346	225000	
39 K	45	1	62,170.00	62170.00	ppb	1.10	39071140	225000	
44 Ca	45	1	74,640.00	74640.00	ppb	0.99	2431225	225000	
51 V	45	1	1.16	1.16	ppb	1.52	5428	2250	
52 Cr	45	1	1.66	1.66	ppb	1.39	9286	2250	
55 Mn	45	1	14.22	14.22	ppb	1.96	61287	2250	
56 Fe	45	1	391.60	391.60	ppb	0.32	2062635	180000	
59 Co	45	1	0.26	0.26	ppb	3.45	2572	2250	
60 Ni	45	1	2.46	2.46	ppb	1.94	5177	2250	
65 Cu	45	1	12.27	12.27	ppb	2.02	32469	2700	
66 Zn	45	1	28.66	28.66	ppb	2.10	25832	2700	
75 As	115	1	1.27	1.27	ppb	2.74	578	2700	
78 Se	115	1	0.93	0.93	ppb	6.72	117	2700	
83 Kr	115	2	----	--------	ppb	--------	487	2700	
95 Mo	115	2	4.26	4.26	ppb	1.33	17737	2700	
107 Ag	115	2	0.05	0.05	ppb	8.80	1606	900	
111 Cd	115	2	0.19	0.19	ppb	9.16	481	2700	
121 Sb	115	2	0.27	0.27	ppb	4.37	4031	2700	
137 Ba	159	2	9.53	9.53	ppb	1.00	31011	2700	
205 Tl	165	2	-0.01	-0.01	ppb	3.84	726	2700	
206 (Pb)	165	2	6.86	6.86	ppb	2.11	70780	2700	
207 (Pb)	165	2	7.61	7.61	ppb	2.07	60244	2700	
208 Pb	165	2	7.02	7.02	ppb	1.99	279469	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	122904	0.57	129088	95.2	70 - 150	
45 Sc	2	1263246	1.80	1375882	91.8	70 - 150	
115 In	1	428217	1.43	556342	77.0	70 - 150	
115 In	2	1370713	1.49	1851091	74.0	70 - 150	
159 Tb	1	1153392	1.71	1424815	81.0	70 - 150	
159 Tb	2	2228102	1.78	2834858	78.6	70 - 150	
165 Ho	1	1146542	2.09	1403932	81.7	70 - 150	
165 Ho	2	2218310	2.49	2826725	78.5	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

1 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\016SMPL.D\016SMPL.D#
Date Acquired: Feb 28 2018 12:25 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: AD02639-010 2X
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1410
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Feb 28 2018 11:35 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.00	0.00	ppb	145.67	98	2700	
23 Na	45	1	1,695,000.00	1695000.00	ppb	1.57	1972408100	225000	>LDR
24 Mg	45	1	200,400.00	200400.00	ppb	1.38	133589900	225000	
27 Al	45	1	10.74	10.74	ppb	1.57	7802	225000	
39 K	45	1	61,500.00	61500.00	ppb	2.08	39165420	225000	
44 Ca	45	1	74,390.00	74390.00	ppb	2.50	2455281	225000	
51 V	45	1	0.65	0.65	ppb	1.30	3175	2250	
52 Cr	45	1	0.34	0.34	ppb	2.69	2463	2250	
55 Mn	45	1	8.20	8.20	ppb	1.65	36873	2250	
56 Fe	45	1	25.20	25.20	ppb	2.21	230918	180000	
59 Co	45	1	0.13	0.13	ppb	2.96	1561	2250	
60 Ni	45	1	1.97	1.97	ppb	1.44	4246	2250	
65 Cu	45	1	3.70	3.70	ppb	3.56	10727	2700	
66 Zn	45	1	18.42	18.42	ppb	2.79	17183	2700	
75 As	115	1	0.84	0.84	ppb	2.85	389	2700	
78 Se	115	1	0.96	0.96	ppb	8.33	118	2700	
83 Kr	115	2	----	--------	ppb	--------	508	2700	
95 Mo	115	2	3.90	3.90	ppb	2.64	16157	2700	
107 Ag	115	2	-0.02	-0.02	ppb	24.62	743	900	
111 Cd	115	2	0.05	0.05	ppb	10.92	158	2700	
121 Sb	115	2	0.20	0.20	ppb	3.55	3440	2700	
137 Ba	159	2	3.99	3.99	ppb	1.95	12994	2700	
205 Tl	165	2	-0.02	-0.02	ppb	18.41	629	2700	
206 (Pb)	165	2	0.12	0.12	ppb	21.84	4637	2700	
207 (Pb)	165	2	0.14	0.14	ppb	27.18	3883	2700	
208 Pb	165	2	0.11	0.11	ppb	16.47	17923	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	124550	0.55	129088	96.5	70 - 150	
45 Sc	2	1274628	0.92	1375882	92.6	70 - 150	
115 In	1	426443	1.86	556342	76.7	70 - 150	
115 In	2	1361322	1.46	1851091	73.5	70 - 150	
159 Tb	1	1147658	2.49	1424815	80.5	70 - 150	
159 Tb	2	2194343	1.26	2834858	77.4	70 - 150	
165 Ho	1	1142415	0.80	1403932	81.4	70 - 150	
165 Ho	2	2189169	1.49	2826725	77.4	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

1 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\017SMPL.D\017SMPL.D#
Date Acquired: Feb 28 2018 12:30 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: RINSE
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Feb 28 2018 11:35 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.04	0.04	ppb	19.27	332	2700	
23 Na	45	1	1,559.00	1559.00	ppb	3.66	2317489	225000	
24 Mg	45	1	187.90	187.90	ppb	3.53	159391	225000	
27 Al	45	1	25.45	25.45	ppb	4.17	16509	225000	
39 K	45	1	81.64	81.64	ppb	4.40	124555	225000	
44 Ca	45	1	134.10	134.10	ppb	2.78	6591	225000	
51 V	45	1	0.10	0.10	ppb	10.88	832	2250	
52 Cr	45	1	0.07	0.07	ppb	9.13	1295	2250	
55 Mn	45	1	0.06	0.06	ppb	45.05	3410	2250	
56 Fe	45	1	59.43	59.43	ppb	1.33	494711	180000	
59 Co	45	1	0.06	0.06	ppb	2.54	1191	2250	
60 Ni	45	1	0.09	0.09	ppb	10.67	499	2250	
65 Cu	45	1	0.20	0.20	ppb	8.60	2034	2700	
66 Zn	45	1	2.45	2.45	ppb	0.93	3858	2700	
75 As	115	1	0.08	0.08	ppb	18.92	89	2700	
78 Se	115	1	0.31	0.31	ppb	44.23	118	2700	
83 Kr	115	2	----	--------	ppb	--------	290	2700	
95 Mo	115	2	0.40	0.40	ppb	0.36	2524	2700	
107 Ag	115	2	-0.02	-0.02	ppb	7.11	928	900	
111 Cd	115	2	0.06	0.06	ppb	9.83	244	2700	
121 Sb	115	2	-0.19	-0.19	ppb	3.24	808	2700	
137 Ba	159	2	0.04	0.04	ppb	7.32	650	2700	
205 Tl	165	2	0.01	0.01	ppb	24.55	1896	2700	
206 (Pb)	165	2	0.06	0.06	ppb	15.78	5264	2700	
207 (Pb)	165	2	0.07	0.07	ppb	18.16	4344	2700	
208 Pb	165	2	0.06	0.06	ppb	13.49	20778	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	152289	1.43	129088	118.0	70 - 150	
45 Sc	2	1466163	0.43	1375882	106.6	70 - 150	
115 In	1	617019	0.90	556342	110.9	70 - 150	
115 In	2	1901198	0.44	1851091	102.7	70 - 150	
159 Tb	1	1517348	1.42	1424815	106.5	70 - 150	
159 Tb	2	2891557	0.67	2834858	102.0	70 - 150	
165 Ho	1	1504915	1.49	1403932	107.2	70 - 150	
165 Ho	2	2856335	0.96	2826725	101.0	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\018_CCV.D\018_CCV.D#
Date Acquired: Feb 28 2018 12:36 pm
Operator: GK
Sample Name: CCV V-274298
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3103
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: Feb 28 2018 11:35 am
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	46.24	ppb	0.36	252973	50	92.5	90 - 110	
23 Na	45	1	5718.00	ppb	3.14	8084219	5000	114.4	90 - 110	Fail
24 Mg	45	1	5254.00	ppb	2.45	4210734	5000	105.1	90 - 110	
27 Al	45	1	1576.00	ppb	1.42	737785	1500	105.1	90 - 110	
39 K	45	1	5392.00	ppb	2.98	4177621	5000	107.8	90 - 110	
44 Ca	45	1	5232.00	ppb	3.10	208364	5000	104.6	90 - 110	
51 V	45	1	50.23	ppb	2.48	275098	50	100.5	90 - 110	
52 Cr	45	1	49.82	ppb	2.80	315236	50	99.6	90 - 110	
55 Mn	45	1	50.11	ppb	2.17	255023	50	100.2	90 - 110	
56 Fe	45	1	5027.00	ppb	2.96	30743340	5000	100.5	90 - 110	
59 Co	45	1	48.06	ppb	3.77	485592	50	96.1	90 - 110	
60 Ni	45	1	49.58	ppb	2.15	121617	50	99.2	90 - 110	
65 Cu	45	1	49.75	ppb	1.43	155955	50	99.5	90 - 110	
66 Zn	45	1	50.28	ppb	3.74	54221	50	100.6	90 - 110	
75 As	115	1	51.94	ppb	3.17	31126	50	103.9	90 - 110	
78 Se	115	1	260.90	ppb	2.51	20582	250	104.4	90 - 110	
83 Kr	115	2	--------	ppb	--------	293	50	#VALUE!	##### - #####	
95 Mo	115	2	47.03	ppb	0.46	255660	50	94.1	90 - 110	
107 Ag	115	2	46.37	ppb	0.57	741272	50	92.7	90 - 110	
111 Cd	115	2	47.62	ppb	0.53	143019	50	95.2	90 - 110	
121 Sb	115	2	46.91	ppb	0.12	459400	50	93.8	90 - 110	
137 Ba	159	2	48.15	ppb	0.21	195044	50	96.3	90 - 110	
205 Tl	165	2	47.70	ppb	0.46	1703247	50	95.4	90 - 110	
206 (Pb)	165	2	42.65	ppb	0.56	531176	50	85.3	90 - 110	
207 (Pb)	165	2	47.17	ppb	0.45	451332	50	94.3	90 - 110	
208 Pb	165	2	46.21	ppb	0.23	2217880	50	92.4	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	149560	2.01	129088	115.9	80 - 120	
45 Sc	2	1426465	1.82	1375882	103.7	80 - 120	
115 In	1	589733	2.43	556342	106.0	80 - 120	
115 In	2	1804071	1.49	1851091	97.5	80 - 120	
159 Tb	1	1448446	1.39	1424815	101.7	80 - 120	
159 Tb	2	2801514	1.93	2834858	98.8	80 - 120	
165 Ho	1	1438703	1.57	1403932	102.5	80 - 120	
165 Ho	2	2791470	1.18	2826725	98.8	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\019_CCV.D\019_CCV.D#
Date Acquired: Feb 28 2018 12:42 pm
Operator: GK
Sample Name: LLCCV V-274300
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3105
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: Feb 28 2018 11:35 am
Sample Type: LL-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	0.46	ppb	3.17	2576	1	92.5	70 - 130	
23 Na	45	1	730.60	ppb	2.50	1094909	250	292.2	70 - 130	FAIL
24 Mg	45	1	317.10	ppb	1.51	254359	250	126.8	70 - 130	
27 Al	45	1	109.70	ppb	1.17	54229	100	109.7	70 - 130	
39 K	45	1	307.00	ppb	0.91	288179	250	122.8	70 - 130	
44 Ca	45	1	305.40	ppb	2.24	12977	250	122.2	70 - 130	
51 V	45	1	1.01	ppb	0.89	5679	1	101.0	70 - 130	
52 Cr	45	1	1.04	ppb	1.10	7259	1	104.4	70 - 130	
55 Mn	45	1	3.12	ppb	1.77	18331	3	104.0	70 - 130	
56 Fe	45	1	170.40	ppb	2.52	1137287	150	113.6	70 - 130	
59 Co	45	1	0.96	ppb	1.65	10043	1	96.2	70 - 130	
60 Ni	45	1	1.69	ppb	1.24	4306	2	112.4	70 - 130	
65 Cu	45	1	5.30	ppb	2.07	17463	5	105.9	70 - 130	
66 Zn	45	1	11.55	ppb	0.96	13101	10	115.5	70 - 130	
75 As	115	1	1.01	ppb	0.12	660	1	101.4	70 - 130	
78 Se	115	1	5.71	ppb	2.14	552	5	114.1	70 - 130	
83 Kr	115	2	--------	ppb	--------	272	1	#VALUE!	##### - #####	
95 Mo	115	2	1.03	ppb	2.19	5852	1	102.5	70 - 130	
107 Ag	115	2	0.44	ppb	1.81	8377	1	87.9	70 - 130	
111 Cd	115	2	0.96	ppb	3.24	2973	1	96.3	70 - 130	
121 Sb	115	2	1.16	ppb	2.04	14079	2	77.2	70 - 130	
137 Ba	159	2	2.38	ppb	0.42	10190	3	95.2	70 - 130	
205 Tl	165	2	0.85	ppb	1.11	31750	1	84.9	70 - 130	
206 (Pb)	165	2	1.22	ppb	3.64	19481	2	81.1	70 - 130	
207 (Pb)	165	2	1.38	ppb	2.12	16755	2	92.1	70 - 130	
208 Pb	165	2	1.27	ppb	1.98	78033	2	84.6	70 - 130	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	146370	0.49	129088	113.4	80 - 120	
45 Sc	2	1383838	1.13	1375882	100.6	80 - 120	
115 In	1	606278	1.93	556342	109.0	80 - 120	
115 In	2	1824577	1.69	1851091	98.6	80 - 120	
159 Tb	1	1491543	0.81	1424815	104.7	80 - 120	
159 Tb	2	2827354	1.75	2834858	99.7	80 - 120	
165 Ho	1	1464817	0.55	1403932	104.3	80 - 120	
165 Ho	2	2796946	1.69	2826725	98.9	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\020_CCB.D\020_CCB.D#
Date Acquired: Feb 28 2018 12:48 pm
Operator: GK
Sample Name: CCB V-274295
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: Feb 28 2018 11:35 am
Sample Type: 6-CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.001	ppb	337.99	130	0.50	
23 Na	45	1	327.200	ppb	3.82	542070	250.00	Fail
24 Mg	45	1	38.140	ppb	5.02	35740	250.00	
27 Al	45	1	1.015	ppb	61.85	4729	100.00	
39 K	45	1	14.410	ppb	7.51	69339	250.00	
44 Ca	45	1	14.430	ppb	10.24	1692	250.00	
51 V	45	1	0.006	ppb	24.89	303	1.00	
52 Cr	45	1	-0.011	ppb	27.33	740	1.00	
55 Mn	45	1	-0.208	ppb	11.53	1938	3.00	
56 Fe	45	1	3.147	ppb	31.51	139559	150.00	
59 Co	45	1	-0.012	ppb	25.59	415	1.00	
60 Ni	45	1	-0.027	ppb	22.74	201	1.50	
65 Cu	45	1	-0.160	ppb	9.64	871	5.00	
66 Zn	45	1	-0.504	ppb	5.11	652	10.00	
75 As	115	1	0.005	ppb	45.86	39	1.00	
78 Se	115	1	0.284	ppb	42.13	114	5.00	
83 Kr	115	2	--------	ppb	--------	302	1.00	
95 Mo	115	2	0.060	ppb	20.39	546	1.00	
107 Ag	115	2	0.000	ppb	3658.20	1273	0.50	
111 Cd	115	2	0.006	ppb	13.86	68	1.00	
121 Sb	115	2	-0.232	ppb	1.66	392	1.50	
137 Ba	159	2	-0.034	ppb	9.98	339	2.50	
205 Tl	165	2	-0.017	ppb	7.49	760	1.00	
206 (Pb)	165	2	-0.080	ppb	25.06	3441	1.50	
207 (Pb)	165	2	-0.066	ppb	6.18	2989	1.50	
208 Pb	165	2	-0.071	ppb	16.54	14084	1.50	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	146082	0.89	129088	113.2	80 - 120	
45 Sc	2	1388118	1.05	1375882	100.9	80 - 120	
115 In	1	608470	1.19	556342	109.4	80 - 120	
115 In	2	1810973	1.29	1851091	97.8	80 - 120	
159 Tb	1	1453616	1.11	1424815	102.0	80 - 120	
159 Tb	2	2784848	1.71	2834858	98.2	80 - 120	
165 Ho	1	1449837	1.79	1403932	103.3	80 - 120	
165 Ho	2	2786159	1.85	2826725	98.6	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

1 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\021SMPL.D\021SMPL.D#
Date Acquired: Feb 28 2018 12:54 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: MB 66498
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1501
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Feb 28 2018 11:35 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	-0.01	-0.01	ppb	21.57	60	2700	
23 Na	45	1	270.40	270.40	ppb	1.91	442034	225000	
24 Mg	45	1	23.03	23.03	ppb	1.24	22772	225000	
27 Al	45	1	14.21	14.21	ppb	5.87	10205	225000	
39 K	45	1	22.62	22.62	ppb	8.30	71802	225000	
44 Ca	45	1	79.28	79.28	ppb	2.39	3998	225000	
51 V	45	1	0.18	0.18	ppb	3.54	1196	2250	
52 Cr	45	1	0.27	0.27	ppb	2.82	2352	2250	
55 Mn	45	1	0.52	0.52	ppb	5.74	5269	2250	
56 Fe	45	1	10.74	10.74	ppb	2.89	175827	180000	
59 Co	45	1	-0.02	-0.02	ppb	3.16	323	2250	
60 Ni	45	1	0.03	0.03	ppb	14.89	323	2250	
65 Cu	45	1	1.27	1.27	ppb	14.75	4959	2700	
66 Zn	45	1	1.82	1.82	ppb	9.14	2899	2700	
75 As	115	1	0.18	0.18	ppb	10.03	134	2700	
78 Se	115	1	0.42	0.42	ppb	54.20	115	2700	
83 Kr	115	2	----	--------	ppb	--------	271	2700	
95 Mo	115	2	0.03	0.03	ppb	7.53	359	2700	
107 Ag	115	2	-0.01	-0.01	ppb	91.61	1069	900	
111 Cd	115	2	0.01	0.01	ppb	155.76	60	2700	
121 Sb	115	2	-0.15	-0.15	ppb	1.95	1125	2700	
137 Ba	159	2	0.26	0.26	ppb	5.66	1416	2700	
205 Tl	165	2	-0.02	-0.02	ppb	3.56	638	2700	
206 (Pb)	165	2	0.31	0.31	ppb	4.93	7642	2700	
207 (Pb)	165	2	0.34	0.34	ppb	4.47	6354	2700	
208 Pb	165	2	0.32	0.32	ppb	2.76	29950	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	139028	2.02	129088	107.7	70 - 150	
45 Sc	2	1272437	1.00	1375882	92.5	70 - 150	
115 In	1	557614	0.73	556342	100.2	70 - 150	
115 In	2	1650989	1.67	1851091	89.2	70 - 150	
159 Tb	1	1386373	0.93	1424815	97.3	70 - 150	
159 Tb	2	2585032	1.14	2834858	91.2	70 - 150	
165 Ho	1	1370796	0.57	1403932	97.6	70 - 150	
165 Ho	2	2574088	1.55	2826725	91.1	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\022SMPL.D\022SMPL.D#
Date Acquired: Feb 28 2018 01:00 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: LCS 66498
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1502
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Feb 28 2018 11:35 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	218.70	218.70	ppb	0.87	1049518	2700	
23 Na	45	1	22,480.00	22480.00	ppb	1.01	28901870	225000	
24 Mg	45	1	22,070.00	22070.00	ppb	1.12	16206450	225000	
27 Al	45	1	2,256.00	2256.00	ppb	1.48	966552	225000	
39 K	45	1	22,430.00	22430.00	ppb	1.04	15766040	225000	
44 Ca	45	1	23,700.00	23700.00	ppb	1.96	862082	225000	
51 V	45	1	226.10	226.10	ppb	1.04	1135118	2250	
52 Cr	45	1	221.70	221.70	ppb	1.81	1284409	2250	
55 Mn	45	1	225.90	225.90	ppb	1.82	1044530	2250	
56 Fe	45	1	2,185.00	2185.00	ppb	2.51	12319200	180000	
59 Co	45	1	215.90	215.90	ppb	1.26	1999021	2250	
60 Ni	45	1	213.20	213.20	ppb	0.42	478828	2250	
65 Cu	45	1	215.00	215.00	ppb	1.74	613847	2700	
66 Zn	45	1	210.00	210.00	ppb	1.42	204217	2700	
75 As	115	1	230.50	230.50	ppb	1.55	124573	2700	
78 Se	115	1	226.00	226.00	ppb	0.77	16101	2700	
83 Kr	115	2	----	--------	ppb	--------	252	2700	
95 Mo	115	2	218.50	218.50	ppb	1.21	1035234	2700	
107 Ag	115	2	39.07	39.07	ppb	1.10	544920	900	
111 Cd	115	2	210.50	210.50	ppb	0.95	551253	2700	
121 Sb	115	2	220.10	220.10	ppb	1.31	1871098	2700	
137 Ba	159	2	208.70	208.70	ppb	0.92	770220	2700	
205 Tl	165	2	201.90	201.90	ppb	0.65	6548186	2700	
206 (Pb)	165	2	204.60	204.60	ppb	1.21	2299675	2700	
207 (Pb)	165	2	222.60	222.60	ppb	0.36	1923406	2700	
208 Pb	165	2	205.40	205.40	ppb	0.90	8904204	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	137149	1.04	129088	106.2	70 - 150	
45 Sc	2	1251877	0.88	1375882	91.0	70 - 150	
115 In	1	532213	2.05	556342	95.7	70 - 150	
115 In	2	1573735	1.05	1851091	85.0	70 - 150	
159 Tb	1	1380564	0.87	1424815	96.9	70 - 150	
159 Tb	2	2557945	0.57	2834858	90.2	70 - 150	
165 Ho	1	1379812	0.57	1403932	98.3	70 - 150	
165 Ho	2	2536866	1.39	2826725	89.7	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\023SMPL.D\023SMPL.D#
Date Acquired: Feb 28 2018 01:06 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: LCS MR 66498
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1503
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Feb 28 2018 11:35 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	222.70	222.70	ppb	0.75	1052104	2700	
23 Na	45	1	22,470.00	22470.00	ppb	1.45	27914150	225000	
24 Mg	45	1	21,930.00	21930.00	ppb	1.30	15561700	225000	
27 Al	45	1	2,229.00	2229.00	ppb	2.34	923439	225000	
39 K	45	1	22,260.00	22260.00	ppb	1.31	15118830	225000	
44 Ca	45	1	23,450.00	23450.00	ppb	3.06	824215	225000	
51 V	45	1	229.70	229.70	ppb	0.95	1114161	2250	
52 Cr	45	1	223.60	223.60	ppb	0.28	1251917	2250	
55 Mn	45	1	225.70	225.70	ppb	2.24	1008922	2250	
56 Fe	45	1	2,185.00	2185.00	ppb	1.81	11908760	180000	
59 Co	45	1	215.20	215.20	ppb	1.92	1926179	2250	
60 Ni	45	1	214.90	214.90	ppb	0.97	466376	2250	
65 Cu	45	1	220.60	220.60	ppb	0.65	608757	2700	
66 Zn	45	1	215.20	215.20	ppb	0.83	202208	2700	
75 As	115	1	226.90	226.90	ppb	1.07	121685	2700	
78 Se	115	1	222.20	222.20	ppb	1.62	15709	2700	
83 Kr	115	2	----	--------	ppb	--------	288	2700	
95 Mo	115	2	219.10	219.10	ppb	0.80	1031393	2700	
107 Ag	115	2	39.03	39.03	ppb	0.33	540982	900	
111 Cd	115	2	210.50	210.50	ppb	0.72	547828	2700	
121 Sb	115	2	220.00	220.00	ppb	0.06	1858714	2700	
137 Ba	159	2	209.70	209.70	ppb	1.07	763819	2700	
205 Tl	165	2	203.60	203.60	ppb	1.11	6521851	2700	
206 (Pb)	165	2	207.00	207.00	ppb	1.33	2298678	2700	
207 (Pb)	165	2	226.50	226.50	ppb	1.19	1932865	2700	
208 Pb	165	2	209.30	209.30	ppb	0.96	8962222	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	132523	0.94	129088	102.7	70 - 150	
45 Sc	2	1232387	0.50	1375882	89.6	70 - 150	
115 In	1	527995	1.18	556342	94.9	70 - 150	
115 In	2	1563613	0.51	1851091	84.5	70 - 150	
159 Tb	1	1369295	2.23	1424815	96.1	70 - 150	
159 Tb	2	2524653	1.36	2834858	89.1	70 - 150	
165 Ho	1	1359292	1.63	1403932	96.8	70 - 150	
165 Ho	2	2505868	1.56	2826725	88.6	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\024SMPL.D\024SMPL.D#
Date Acquired: Feb 28 2018 01:11 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: AD02743-006
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1504
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Feb 28 2018 11:35 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.06	0.06	ppb	10.80	399	2700	
23 Na	45	1	493,600.00	493600.00	ppb	0.77	608712380	225000	>LDR
24 Mg	45	1	69,520.00	69520.00	ppb	1.18	49112472	225000	
27 Al	45	1	74.97	74.97	ppb	4.92	34628	225000	
39 K	45	1	28,780.00	28780.00	ppb	0.57	19449660	225000	
44 Ca	45	1	80,660.00	80660.00	ppb	0.89	2820593	225000	
51 V	45	1	0.96	0.96	ppb	1.54	4896	2250	
52 Cr	45	1	1.92	1.92	ppb	0.57	11441	2250	
55 Mn	45	1	597.50	597.50	ppb	0.75	2654245	2250	
56 Fe	45	1	7,519.00	7519.00	ppb	0.71	40536120	180000	
59 Co	45	1	0.72	0.72	ppb	4.54	6906	2250	
60 Ni	45	1	3.02	3.02	ppb	2.50	6760	2250	
65 Cu	45	1	1.97	1.97	ppb	8.84	6608	2700	
66 Zn	45	1	16.20	16.20	ppb	2.94	16134	2700	
75 As	115	1	11.08	11.08	ppb	1.96	5299	2700	
78 Se	115	1	0.87	0.87	ppb	9.61	125	2700	
83 Kr	115	2	----	--------	ppb	--------	358	2700	
95 Mo	115	2	2.28	2.28	ppb	4.21	9928	2700	
107 Ag	115	2	0.09	0.09	ppb	5.56	2099	900	
111 Cd	115	2	0.11	0.11	ppb	7.90	289	2700	
121 Sb	115	2	0.14	0.14	ppb	9.26	3181	2700	
137 Ba	159	2	428.20	428.20	ppb	0.18	1463274	2700	
205 Tl	165	2	0.23	0.23	ppb	6.50	7987	2700	
206 (Pb)	165	2	0.42	0.42	ppb	6.49	8079	2700	
207 (Pb)	165	2	0.49	0.49	ppb	5.46	6952	2700	
208 Pb	165	2	0.43	0.43	ppb	4.32	32173	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	131972	1.55	129088	102.2	70 - 150	
45 Sc	2	1287269	0.21	1375882	93.6	70 - 150	
115 In	1	468310	0.96	556342	84.2	70 - 150	
115 In	2	1423342	1.52	1851091	76.9	70 - 150	
159 Tb	1	1262717	1.10	1424815	88.6	70 - 150	
159 Tb	2	2368457	1.62	2834858	83.5	70 - 150	
165 Ho	1	1263392	1.28	1403932	90.0	70 - 150	
165 Ho	2	2355404	2.34	2826725	83.3	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\025SMPL.D\025SMPL.D#
Date Acquired: Feb 28 2018 01:17 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: AD02743-007
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1505
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Feb 28 2018 11:35 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.05	0.05	ppb	6.45	328	2700	
23 Na	45	1	365.70	365.70	ppb	1.08	523125	225000	
24 Mg	45	1	40.02	40.02	ppb	5.59	32747	225000	
27 Al	45	1	19.94	19.94	ppb	1.41	11731	225000	
39 K	45	1	34.52	34.52	ppb	0.64	74196	225000	
44 Ca	45	1	109.80	109.80	ppb	1.30	4735	225000	
51 V	45	1	0.30	0.30	ppb	3.42	1638	2250	
52 Cr	45	1	0.23	0.23	ppb	5.44	1961	2250	
55 Mn	45	1	0.86	0.86	ppb	3.01	6314	2250	
56 Fe	45	1	15.49	15.49	ppb	7.55	187440	180000	
59 Co	45	1	0.04	0.04	ppb	8.06	816	2250	
60 Ni	45	1	0.12	0.12	ppb	4.06	482	2250	
65 Cu	45	1	1.57	1.57	ppb	1.28	5385	2700	
66 Zn	45	1	1.87	1.87	ppb	3.02	2727	2700	
75 As	115	1	0.30	0.30	ppb	2.16	197	2700	
78 Se	115	1	0.34	0.34	ppb	17.39	105	2700	
83 Kr	115	2	----	--------	ppb	--------	234	2700	
95 Mo	115	2	0.09	0.09	ppb	9.38	621	2700	
107 Ag	115	2	-0.01	-0.01	ppb	22.75	953	900	
111 Cd	115	2	0.05	0.05	ppb	2.29	188	2700	
121 Sb	115	2	-0.08	-0.08	ppb	3.00	1672	2700	
137 Ba	159	2	0.35	0.35	ppb	12.84	1696	2700	
205 Tl	165	2	0.09	0.09	ppb	5.42	4303	2700	
206 (Pb)	165	2	0.09	0.09	ppb	16.23	4985	2700	
207 (Pb)	165	2	0.12	0.12	ppb	11.71	4318	2700	
208 Pb	165	2	0.11	0.11	ppb	8.97	20290	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	128506	0.54	129088	99.5	70 - 150	
45 Sc	2	1196654	0.55	1375882	87.0	70 - 150	
115 In	1	539587	0.49	556342	97.0	70 - 150	
115 In	2	1593133	1.62	1851091	86.1	70 - 150	
159 Tb	1	1384578	1.44	1424815	97.2	70 - 150	
159 Tb	2	2524518	1.13	2834858	89.1	70 - 150	
165 Ho	1	1361597	1.08	1403932	97.0	70 - 150	
165 Ho	2	2519140	1.40	2826725	89.1	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\026SMPL.D\026SMPL.D#
Date Acquired: Feb 28 2018 01:23 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: AD02743-009
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1506
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Feb 28 2018 11:35 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.02	0.02	ppb	19.84	234	2700	
23 Na	45	1	448,400.00	448400.00	ppb	2.01	558407420	225000	>LDR
24 Mg	45	1	64,680.00	64680.00	ppb	2.66	46147860	225000	
27 Al	45	1	59.06	59.06	ppb	4.08	28388	225000	
39 K	45	1	26,790.00	26790.00	ppb	3.66	18291890	225000	
44 Ca	45	1	77,180.00	77180.00	ppb	3.86	2726522	225000	
51 V	45	1	0.86	0.86	ppb	0.93	4462	2250	
52 Cr	45	1	1.77	1.77	ppb	0.46	10661	2250	
55 Mn	45	1	573.60	573.60	ppb	2.27	2573904	2250	
56 Fe	45	1	7,459.00	7459.00	ppb	1.50	40613500	180000	
59 Co	45	1	0.63	0.63	ppb	1.75	6141	2250	
60 Ni	45	1	2.82	2.82	ppb	0.59	6400	2250	
65 Cu	45	1	1.47	1.47	ppb	5.56	5298	2700	
66 Zn	45	1	14.92	14.92	ppb	1.73	15094	2700	
75 As	115	1	9.38	9.38	ppb	0.71	4641	2700	
78 Se	115	1	0.61	0.61	ppb	19.08	112	2700	
83 Kr	115	2	----	--------	ppb	--------	312	2700	
95 Mo	115	2	1.90	1.90	ppb	1.54	8512	2700	
107 Ag	115	2	-0.02	-0.02	ppb	4.49	710	900	
111 Cd	115	2	0.05	0.05	ppb	12.57	167	2700	
121 Sb	115	2	0.00	0.00	ppb	376.46	2130	2700	
137 Ba	159	2	404.20	404.20	ppb	0.25	1405107	2700	
205 Tl	165	2	0.04	0.04	ppb	13.87	2344	2700	
206 (Pb)	165	2	0.25	0.25	ppb	8.46	6517	2700	
207 (Pb)	165	2	0.28	0.28	ppb	6.66	5447	2700	
208 Pb	165	2	0.26	0.26	ppb	3.05	25852	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	133254	1.79	129088	103.2	70 - 150	
45 Sc	2	1271687	1.34	1375882	92.4	70 - 150	
115 In	1	484193	2.38	556342	87.0	70 - 150	
115 In	2	1461142	1.00	1851091	78.9	70 - 150	
159 Tb	1	1285850	1.52	1424815	90.2	70 - 150	
159 Tb	2	2409873	0.86	2834858	85.0	70 - 150	
165 Ho	1	1281453	3.00	1403932	91.3	70 - 150	
165 Ho	2	2418758	1.15	2826725	85.6	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\027SMPL.D\027SMPL.D#
Date Acquired: Feb 28 2018 01:29 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: RINSE
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Feb 28 2018 11:35 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.15	0.15	ppb	1.15	888	2700	
23 Na	45	1	1,071.00	1071.00	ppb	2.00	1516355	225000	
24 Mg	45	1	162.10	162.10	ppb	0.28	129177	225000	
27 Al	45	1	19.90	19.90	ppb	2.83	12964	225000	
39 K	45	1	79.25	79.25	ppb	1.36	114632	225000	
44 Ca	45	1	152.70	152.70	ppb	1.64	6858	225000	
51 V	45	1	0.22	0.22	ppb	8.46	1424	2250	
52 Cr	45	1	0.20	0.20	ppb	6.65	1956	2250	
55 Mn	45	1	0.57	0.57	ppb	2.07	5602	2250	
56 Fe	45	1	54.15	54.15	ppb	2.28	431527	180000	
59 Co	45	1	0.18	0.18	ppb	2.98	2271	2250	
60 Ni	45	1	0.20	0.20	ppb	9.48	730	2250	
65 Cu	45	1	0.27	0.27	ppb	8.83	2128	2700	
66 Zn	45	1	2.68	2.68	ppb	0.99	3832	2700	
75 As	115	1	0.21	0.21	ppb	4.02	171	2700	
78 Se	115	1	0.59	0.59	ppb	10.55	141	2700	
83 Kr	115	2	----	--------	ppb	--------	269	2700	
95 Mo	115	2	0.43	0.43	ppb	3.97	2593	2700	
107 Ag	115	2	0.00	0.00	ppb	50.11	1362	900	
111 Cd	115	2	0.17	0.17	ppb	3.05	571	2700	
121 Sb	115	2	-0.10	-0.10	ppb	5.51	1690	2700	
137 Ba	159	2	0.39	0.39	ppb	4.92	2061	2700	
205 Tl	165	2	0.15	0.15	ppb	0.82	6871	2700	
206 (Pb)	165	2	0.09	0.09	ppb	23.32	5655	2700	
207 (Pb)	165	2	0.11	0.11	ppb	12.37	4691	2700	
208 Pb	165	2	0.10	0.10	ppb	9.50	22573	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	142265	1.54	129088	110.2	70 - 150	
45 Sc	2	1351778	0.72	1375882	98.2	70 - 150	
115 In	1	617154	1.34	556342	110.9	70 - 150	
115 In	2	1839683	0.20	1851091	99.4	70 - 150	
159 Tb	1	1501367	1.07	1424815	105.4	70 - 150	
159 Tb	2	2821638	1.62	2834858	99.5	70 - 150	
165 Ho	1	1496263	0.55	1403932	106.6	70 - 150	
165 Ho	2	2823039	0.72	2826725	99.9	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\028_CCV.D\028_CCV.D#
Date Acquired: Feb 28 2018 01:35 pm
Operator: GK
Sample Name: CCV V-274298
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3103
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: Feb 28 2018 11:35 am
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	47.54	ppb	1.18	241716	50	95.1	90 - 110	
23 Na	45	1	5159.00	ppb	0.31	6900329	5000	103.2	90 - 110	
24 Mg	45	1	5073.00	ppb	0.73	3840936	5000	101.5	90 - 110	
27 Al	45	1	1511.00	ppb	1.38	668345	1500	100.7	90 - 110	
39 K	45	1	5123.00	ppb	1.51	3752106	5000	102.5	90 - 110	
44 Ca	45	1	5051.00	ppb	1.59	190118	5000	101.0	90 - 110	
51 V	45	1	50.00	ppb	0.51	258659	50	100.0	90 - 110	
52 Cr	45	1	50.13	ppb	0.46	299630	50	100.3	90 - 110	
55 Mn	45	1	50.51	ppb	0.94	242772	50	101.0	90 - 110	
56 Fe	45	1	5078.00	ppb	0.16	29333810	5000	101.6	90 - 110	
59 Co	45	1	48.53	ppb	0.48	463064	50	97.1	90 - 110	
60 Ni	45	1	50.16	ppb	0.07	116192	50	100.3	90 - 110	
65 Cu	45	1	50.57	ppb	1.95	149682	50	101.1	90 - 110	
66 Zn	45	1	50.87	ppb	1.05	51798	50	101.7	90 - 110	
75 As	115	1	50.63	ppb	0.29	29825	50	101.3	90 - 110	
78 Se	115	1	256.20	ppb	0.71	19872	250	102.5	90 - 110	
83 Kr	115	2	--------	ppb	--------	298	50	#VALUE!	##### - #####	
95 Mo	115	2	48.07	ppb	1.19	246361	50	96.1	90 - 110	
107 Ag	115	2	46.20	ppb	1.08	696335	50	92.4	90 - 110	
111 Cd	115	2	48.82	ppb	1.45	138215	50	97.6	90 - 110	
121 Sb	115	2	48.58	ppb	1.20	448364	50	97.2	90 - 110	
137 Ba	159	2	48.84	ppb	1.06	191084	50	97.7	90 - 110	
205 Tl	165	2	48.62	ppb	0.80	1672579	50	97.2	90 - 110	
206 (Pb)	165	2	43.33	ppb	1.59	519741	50	86.7	90 - 110	
207 (Pb)	165	2	48.46	ppb	2.41	446502	50	96.9	90 - 110	
208 Pb	165	2	47.35	ppb	2.36	2188575	50	94.7	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	141223	2.38	129088	109.4	80 - 120	
45 Sc	2	1325994	2.42	1375882	96.4	80 - 120	
115 In	1	579463	2.92	556342	104.2	80 - 120	
115 In	2	1701148	2.27	1851091	91.9	80 - 120	
159 Tb	1	1442653	0.63	1424815	101.3	80 - 120	
159 Tb	2	2706763	3.68	2834858	95.5	80 - 120	
165 Ho	1	1439571	0.91	1403932	102.5	80 - 120	
165 Ho	2	2689910	2.56	2826725	95.2	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\029_CCV.D\029_CCV.D#
Date Acquired: Feb 28 2018 01:41 pm
Operator: GK
Sample Name: LLCCV V-274300
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3105
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: Feb 28 2018 11:35 am
Sample Type: LL-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	0.49	ppb	6.72	2608	1	97.6	70 - 130	
23 Na	45	1	424.00	ppb	1.70	652927	250	169.6	70 - 130	FAIL
24 Mg	45	1	292.80	ppb	0.71	227429	250	117.1	70 - 130	
27 Al	45	1	107.20	ppb	1.06	51306	100	107.2	70 - 130	
39 K	45	1	292.70	ppb	1.08	268177	250	117.1	70 - 130	
44 Ca	45	1	300.70	ppb	1.18	12365	250	120.3	70 - 130	
51 V	45	1	1.05	ppb	0.20	5710	1	105.3	70 - 130	
52 Cr	45	1	1.05	ppb	2.38	7037	1	104.8	70 - 130	
55 Mn	45	1	3.29	ppb	0.93	18498	3	109.5	70 - 130	
56 Fe	45	1	166.50	ppb	0.86	1076710	150	111.0	70 - 130	
59 Co	45	1	0.99	ppb	0.45	9964	1	98.9	70 - 130	
60 Ni	45	1	1.70	ppb	1.57	4197	2	113.4	70 - 130	
65 Cu	45	1	5.24	ppb	2.45	16715	5	104.8	70 - 130	
66 Zn	45	1	11.98	ppb	0.26	13094	10	119.8	70 - 130	
75 As	115	1	1.05	ppb	1.37	682	1	104.7	70 - 130	
78 Se	115	1	5.44	ppb	2.27	531	5	108.9	70 - 130	
83 Kr	115	2	--------	ppb	--------	250	1	#VALUE!	##### - #####	
95 Mo	115	2	0.95	ppb	1.83	5366	1	95.3	70 - 130	
107 Ag	115	2	0.43	ppb	4.63	8082	1	86.0	70 - 130	
111 Cd	115	2	0.94	ppb	3.61	2861	1	94.0	70 - 130	
121 Sb	115	2	1.15	ppb	2.09	13761	2	76.5	70 - 130	
137 Ba	159	2	2.48	ppb	2.35	10218	3	99.2	70 - 130	
205 Tl	165	2	0.87	ppb	0.36	32117	1	87.3	70 - 130	
206 (Pb)	165	2	1.18	ppb	1.51	18771	2	78.7	70 - 130	
207 (Pb)	165	2	1.32	ppb	0.84	15913	2	87.8	70 - 130	
208 Pb	165	2	1.22	ppb	1.96	74709	2	81.5	70 - 130	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	141461	0.53	129088	109.6	80 - 120	
45 Sc	2	1330579	1.38	1375882	96.7	80 - 120	
115 In	1	607297	1.13	556342	109.2	80 - 120	
115 In	2	1795380	1.69	1851091	97.0	80 - 120	
159 Tb	1	1471675	1.62	1424815	103.3	80 - 120	
159 Tb	2	2727512	0.63	2834858	96.2	80 - 120	
165 Ho	1	1465399	0.90	1403932	104.4	80 - 120	
165 Ho	2	2755470	1.01	2826725	97.5	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\A022818A.b\030_CCB.D\030_CCB.D#
Date Acquired: Feb 28 2018 01:47 pm
Operator: GK
Sample Name: CCB V-274295
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: Feb 28 2018 11:35 am
Sample Type: 6-CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.013	ppb	45.96	183	0.50	
23 Na	45	1	99.470	ppb	2.52	220916	250.00	
24 Mg	45	1	14.930	ppb	5.23	16809	250.00	
27 Al	45	1	-3.441	ppb	4.24	2583	100.00	
39 K	45	1	3.399	ppb	29.69	58378	250.00	
44 Ca	45	1	5.049	ppb	24.22	1269	250.00	
51 V	45	1	0.013	ppb	28.96	325	1.00	
52 Cr	45	1	0.000	ppb	393.41	766	1.00	
55 Mn	45	1	-0.203	ppb	10.22	1879	3.00	
56 Fe	45	1	-5.405	ppb	5.60	84714	150.00	
59 Co	45	1	-0.009	ppb	27.02	429	1.00	
60 Ni	45	1	-0.031	ppb	19.88	185	1.50	
65 Cu	45	1	-0.195	ppb	1.33	729	5.00	
66 Zn	45	1	-0.607	ppb	2.18	521	10.00	
75 As	115	1	0.016	ppb	74.94	46	1.00	
78 Se	115	1	0.276	ppb	32.16	111	5.00	
83 Kr	115	2	--------	ppb	--------	291	1.00	
95 Mo	115	2	0.033	ppb	6.71	392	1.00	
107 Ag	115	2	-0.011	ppb	44.09	1072	0.50	
111 Cd	115	2	0.018	ppb	32.11	104	1.00	
121 Sb	115	2	-0.222	ppb	1.54	487	1.50	
137 Ba	159	2	0.018	ppb	31.33	541	2.50	
205 Tl	165	2	0.007	ppb	49.23	1606	1.00	
206 (Pb)	165	2	-0.129	ppb	1.28	2784	1.50	
207 (Pb)	165	2	-0.120	ppb	6.79	2434	1.50	
208 Pb	165	2	-0.121	ppb	2.93	11504	1.50	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	139505	1.33	129088	108.1	80 - 120	
45 Sc	2	1326474	2.04	1375882	96.4	80 - 120	
115 In	1	596964	0.55	556342	107.3	80 - 120	
115 In	2	1788298	1.61	1851091	96.6	80 - 120	
159 Tb	1	1475984	3.29	1424815	103.6	80 - 120	
159 Tb	2	2753941	0.80	2834858	97.1	80 - 120	
165 Ho	1	1457454	1.60	1403932	103.8	80 - 120	
165 Ho	2	2741184	0.59	2826725	97.0	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

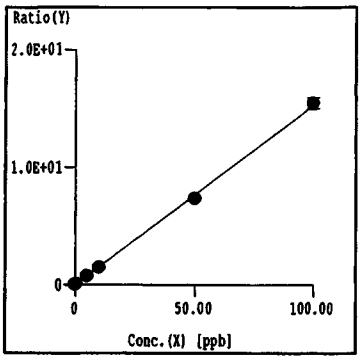
ISTD Ref File : C:\ICPCHEM\1\DATA\A022818A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

8022605 0747

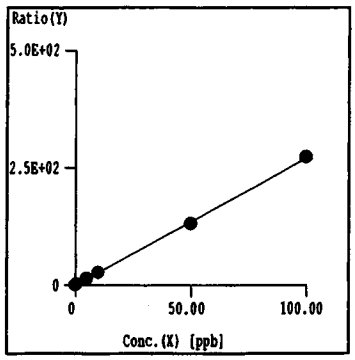
=== Graph Detail ===

Step Mass Element ISTD Unit
(2) 9 Be 45 ppb



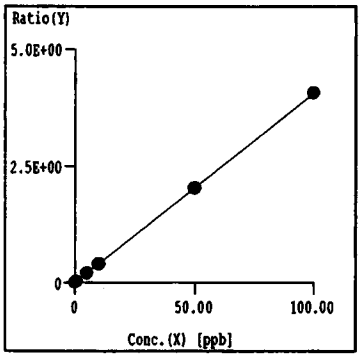
Curve Fit: Y=aX+[blank]
r = 0.9997
Y = 1.533E-001*X +3.566E-003
X = 6.522E+000*Y -2.326E-002
DL = 1.583E-02 ppb
BEC = 2.326E-02 ppb

Step Mass Element ISTD Unit
(1) 59 Co 45 ppb



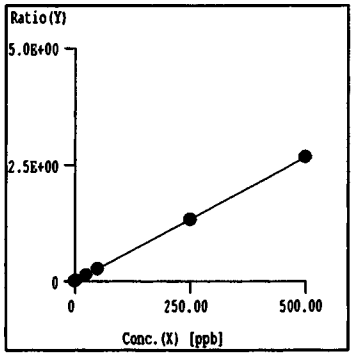
Curve Fit: Y=aX+[blank]
r = 0.9998
Y = 2.700E+000*X +1.463E-001
X = 3.704E-001*Y -5.420E-002
DL = 1.063E-02 ppb
BEC = 5.420E-02 ppb

Step Mass Element ISTD Unit
(1) 75 As 115 ppb



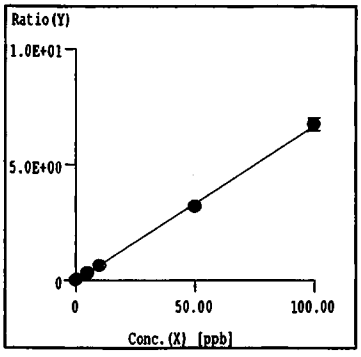
Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 4.062E-002*X +2.396E-003
X = 2.462E+001*Y -5.899E-002
DL = 3.678E-03 ppb
BEC = 5.899E-02 ppb

Step Mass Element ISTD Unit
(1) 78 Se 115 ppb



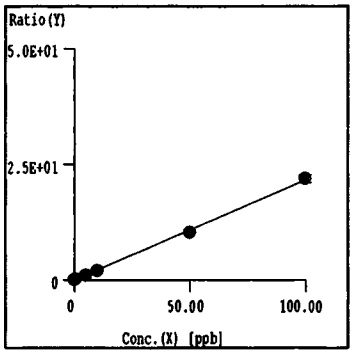
Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 5.329E-003*X +5.990E-003
X = 1.876E+002*Y -1.124E+000
DL = 1.815E-01 ppb
BEC = 1.124 ppb

Step Mass Element ISTD Unit
(2) 111 Cd 115 ppb



Curve Fit: Y=aX+[blank]
r = 0.9997
Y = 6.656E-002*X +1.123E-003
X = 1.502E+001*Y -1.687E-002
DL = 8.005E-03 ppb
BEC = 1.687E-02 ppb

Step Mass Element ISTD Unit
(2) 121 Sb 115 ppb

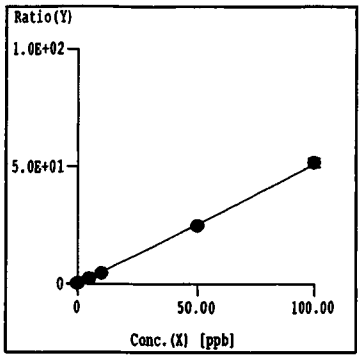


Curve Fit: Y=aX+[blank]
r = 0.9995
Y = 2.159E-001*X +5.870E-002
X = 4.633E+000*Y -2.720E-001
DL = 7.275E-02 ppb
BEC = 2.720E-01 ppb

8022605 0748

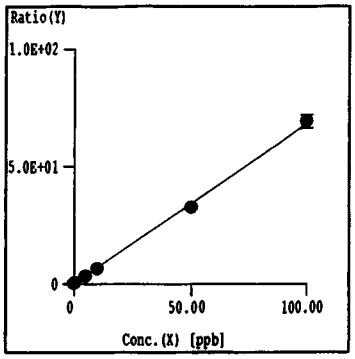
=== Graph Detail ===

Step Mass Element	ISTD	Unit
(2) 205 Tl	165	ppb



Curve Fit: Y=aX+[blank]
r = 0.9997
Y = 5.112E-001*X +1.986E-002
X = 1.956E+000*Y -3.884E-002
DL = 1.679E-02 ppb
BEC = 3.884E-02 ppb

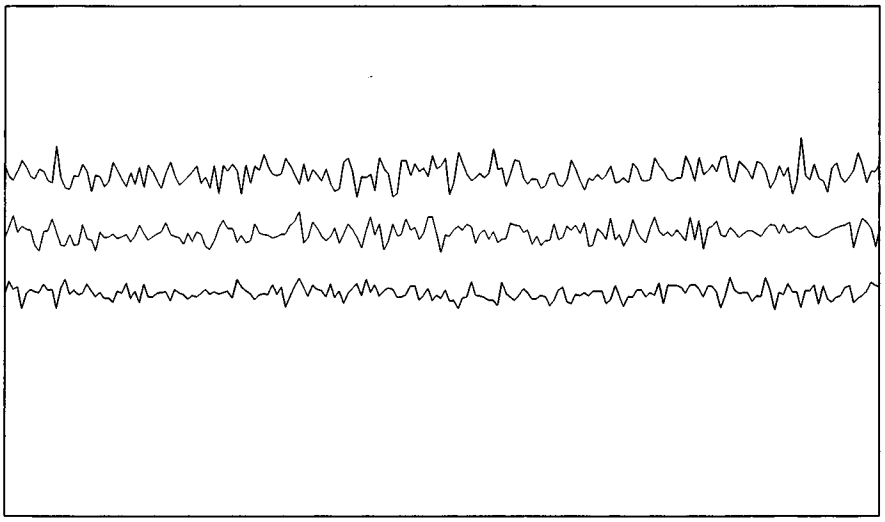
Step Mass Element	ISTD	Unit
(2) 208 Pb	165	ppb



Curve Fit: Y=aX+[blank]
r = 0.9995
Y = 6.823E-001*X +2.504E-001
X = 1.466E+000*Y -3.670E-001
DL = 1.011E-01 ppb
BEC = 3.670E-01 ppb

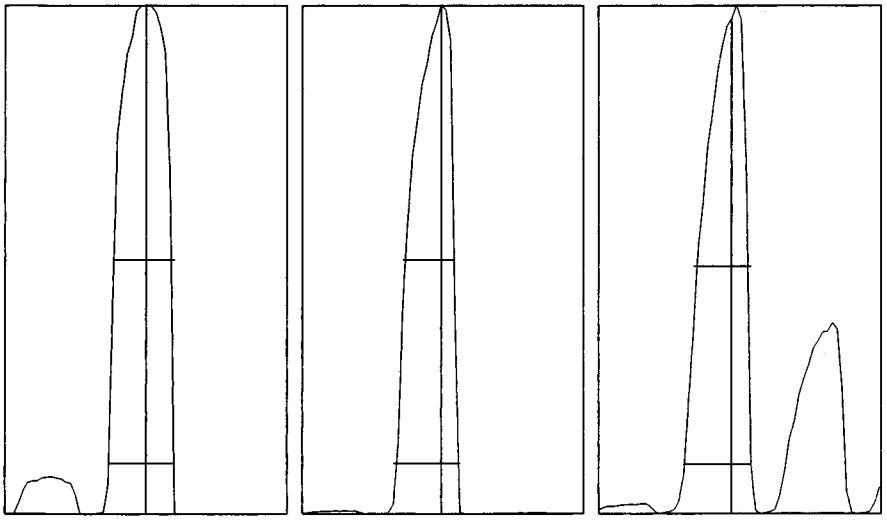
Tune Report

Tune File : ATUNE.U
Comment : TN030118



Integration Time:	0.1000 sec	
Sampling Period:	0.6200 sec	
n:	200	
Oxide:	156/140	0.7
Doubly Charged:	70/140	1.9

m/z	Range	Count	Mean	RSD%	Background
7	50,000	22525.0	21865.8	3.02	5.90
89	50,000	34501.0	33550.3	3.01	5.30
205	50,000	28147.0	27753.3	2.85	8.80
156/140	2	0.851%	0.797%	8.99	
70/140	5	1.792%	1.925%	8.23	



m/z:	7	89
Height:	22,302	34,121
Axis:	7.05	89.00
W-50%:	0.65	0.55
W-10%:	0.700	0.700

Integration Time: 0.1000 sec
Acquisition Time: 22.7600 sec

Y axis : Linear

Generated : Mar 01, 2018 10:12:10
Printed : Mar 01, 2018 10:12:12

Tune Report

Tune File : ATUNE.U
Comment : TN030118

Tuning Parameters

===Plasma Condition===			===Ion Lenses===			===Q-Pole Parameters===		
RF Power	:	1500 W	Extract 1	:	0 V	AMU Gain	:	114
RF Matching	:	1.76 V	Extract 2	:	-135 V	AMU Offset	:	124
Smpl Depth	:	5.9 mm	Omega Bias-ce	:	-32 V	Axis Gain	:	1.0051
Torch-H	:	0.1 mm	Omega Lens-ce	:	-3.2 V	Axis Offset	:	-0.3
Torch-V	:	0.1 mm	Cell Entrance	:	-40 V	QP Bias	:	-4.5 V
Carrier Gas	:	1.06 L/min	QP Focus	:	4 V			
Makeup Gas	:	0.1 L/min	Cell Exit	:	-40 V	===Detector Parameters===		
Optional Gas	:	--- %				Discriminator	:	9.1 mV
Nebulizer Pump	:	0.1 rps	===Octopole Parameters===			Analog HV	:	1960 V
Sample Pump	:	--- rps	OctP RF	:	180 V	Pulse HV	:	1720 V
S/C Temp	:	2 degC	OctP Bias	:	-5 V			

===Reaction Cell===								
Reaction Mode	:	OFF						
H2 Gas	:	0 mL/min	He Gas	:	0 mL/min	Optional Gas	:	--- %

Generated : Mar 01, 2018 10:12:10
Printed : Mar 01, 2018 10:12:14

C:\ICPCHEM\1\DATA\T030118A.B\001TUNE.D

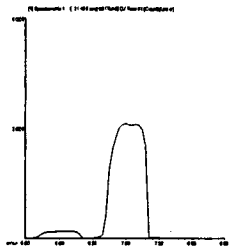
6020 Tune Check Sample

Data File: 001TUNE.D
Date Acquired: Mar 1 2018 10:31 am
Operator: PC
Sample Name:
Misc Info:
Vial Number: 5
Current Method: TN6020.M

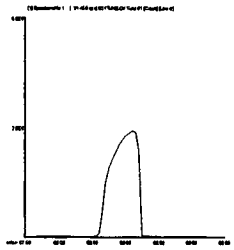
QC Tune Summary:
Pass

RSD%

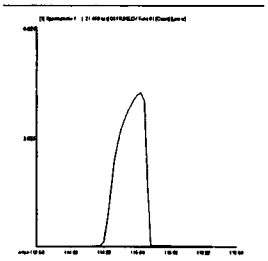
Element	Actual	Required	Flag
7 Li	2.47	5.00	0
59 Co	1.46	5.00	
115 In	2.34	5.00	
205 Tl	1.25	5.00	



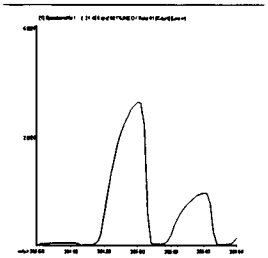
7 Li
Mass Calib.
Actual: 7.05
Required: 6.90 - 7.10
Flag:
Peak Width
Actual: 0.60
Required: 0.90
Flag:



59 Co
Mass Calib.
Actual: 59.05
Required: 58.90 - 59.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:



115 In
Mass Calib.
Actual: 115.00
Required: 114.90 - 115.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:



205 Tl
Mass Calib.
Actual: 204.95
Required: 204.90 - 205.10
Flag:
Peak Width
Actual: 0.55
Required: 0.90
Flag:

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\A030118A.b\001CALB.D\001CALB.D#
Date Acquired:	Mar 1 2018 10:48 am
Acq. Method:	6020AQ.M
Operator:	GK
Sample Name:	Rinse
Misc Info:	MS_7500 CALIBRATION
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update:	Mar 01 2018 10:52 am
Sample Type:	CalBlk

File A030118A
B 22208
QC 66498

Rmk.
Report As, Be, Cd, Co, Pb, Sb, Se, Tl
for 02671-003 thru -006, 02671-001, 002, 004, 005, 02771-001, 002, 02799-002

3/2/18

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	49	17.16
23	Na	45	1	84306	2.03
24	Mg	45	1	796	9.67
27	Al	45	1	483	3.06
39	K	45	1	48286	4.16
44	Ca	45	1	469	11.56
51	V	45	1	79	10.43
52	Cr	45	1	437	8.42
55	Mn	45	1	1588	3.73
56	Fe	45	1	12142	5.11
59	Co	45	1	252	3.33
60	Ni	45	1	266	5.67
65	Cu	45	1	990	2.21
66	Zn	45	1	1133	6.04
75	As	115	1	22	6.18
78	Se	115	1	74	10.23
83	Kr	115	2	247	15.23
95	Mo	115	2	199	17.92
107	Ag	115	2	163	12.25
111	Cd	115	2	21	22.94
121	Sb	115	2	4193	3.63
137	Ba	159	2	128	16.77
205	Tl	165	2	1083	3.50
206	(Pb)	165	2	2091	8.88
207	(Pb)	165	2	1729	6.09
208	Pb	165	2	8124	4.27

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
45	Sc	1	115158	4.09
45	Sc	2	1351585	0.43
115	In	1	479010	4.79
115	In	2	1747425	0.47
159	Tb	1	1266669	2.49
159	Tb	2	2610386	1.18
165	Ho	1	1245933	2.68
165	Ho	2	2616986	1.17

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\nogas.u
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Blank QC Report

Data File:	C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#
Date Acquired:	Mar 1 2018 10:54 am
Acq. Method:	6020AQ.M
Operator:	GK
Sample Name:	CalBlk V-274288
Misc Info:	MS_7500 CALIBRATION
Vial Number:	1101
Current Method:	C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update:	Mar 01 2018 10:52 am
Sample Type:	CalBlk

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	44	21.65
23	Na	45	1	99237	0.20
24	Mg	45	1	1820	1.96
27	Al	45	1	674	2.40
39	K	45	1	57475	0.60
44	Ca	45	1	740	4.70
51	V	45	1	123	18.00
52	Cr	45	1	482	4.71
55	Mn	45	1	1969	1.25
56	Fe	45	1	21811	35.07
59	Co	45	1	257	4.78
60	Ni	45	1	306	3.36
65	Cu	45	1	968	1.70
66	Zn	45	1	1196	1.04
75	As	115	1	30	11.76
78	Se	115	1	90	6.27
83	Kr	115	2	247	7.02
95	Mo	115	2	147	9.09
107	Ag	115	2	190	12.65
111	Cd	115	2	25	24.66
121	Sb	115	2	3075	1.17
137	Ba	159	2	151	17.97
205	Tl	165	2	905	8.73
206	(Pb)	165	2	2248	6.24
207	(Pb)	165	2	1908	2.52
208	Pb	165	2	8980	3.57

Internal Standard Elements

Element		Tune	CPS Mean	RSD(%)
45	Sc	1	129819	1.29
45	Sc	2	1340091	1.57
115	In	1	549428	2.67
115	In	2	1801474	2.28
159	Tb	1	1375156	0.87
159	Tb	2	2717503	1.33
165	Ho	1	1369251	1.70
165	Ho	2	2704826	0.59

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\noqas.u
Tune File#	3	C:\ICPCHEM\1\7500\

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\A030118A.b\003CALI.D\003CALI.D#
Date Acquired:	Mar 1 2018 11:00 am
Acq. Method:	6020AQ.M
Operator:	GK
Sample Name:	CalStd1 V-274289
Misc Info:	MS_7500 CALIBRATION
Vial Number:	1102
Current Method:	C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update:	Mar 01 2018 10:58 am
Sample Type:	CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	2487	3.07
23	Na	45	1	129841	2.06
24	Mg	45	1	38093	2.26
27	Al	45	1	7473	1.96
39	K	45	1	82835	2.83
44	Ca	45	1	2222	1.66
51	V	45	1	2545	0.75
52	Cr	45	1	3414	3.35
55	Mn	45	1	4124	5.40
56	Fe	45	1	312132	0.66
59	Co	45	1	4584	2.60
60	Ni	45	1	1371	3.33
65	Cu	45	1	2055	2.41
66	Zn	45	1	1618	3.22
75	As	115	1	294	3.82
78	Se	115	1	279	8.24
83	Kr	115	2	272	8.15
95	Mo	115	2	2535	5.52
107	Ag	115	2	7072	2.41
111	Cd	115	2	1412	6.00
121	Sb	115	2	6853	0.93
137	Ba	159	2	2075	0.94
205	Tl	165	2	14873	2.20
206	(Pb)	165	2	7527	4.24
207	(Pb)	165	2	6212	1.62
208	Pb	165	2	30121	1.10

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	133196	2.06	129819	102.6	80 - 120	
45	Sc	2	1375917	1.31	1340091	102.7	80 - 120	
115	In	1	561748	0.97	549428	102.2	80 - 120	
115	In	2	1806443	1.75	1801474	100.3	80 - 120	
159	Tb	1	1402682	1.65	1375156	102.0	80 - 120	
159	Tb	2	2745987	1.72	2717503	101.0	80 - 120	
165	Ho	1	1396011	1.65	1369251	102.0	80 - 120	
165	Ho	2	2732214	0.86	2704826	101.0	80 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\nogas.u
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\004CALI.D\004CALI.D#
Date Acquired: Mar 1 2018 11:06 am
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: CalStd2 V-274290
Misc Info: MS_7500 CALIBRATION
Vial Number: 1103
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Mar 01 2018 11:04 am
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	24802	1.52
23	Na	45	1	715895	3.55
24	Mg	45	1	390238	0.68
27	Al	45	1	65288	0.63
39	K	45	1	420413	0.54
44	Ca	45	1	18918	1.29
51	V	45	1	25157	1.34
52	Cr	45	1	29317	1.88
55	Mn	45	1	24373	0.92
56	Fe	45	1	2896793	1.41
59	Co	45	1	44639	1.20
60	Ni	45	1	11393	2.71
65	Cu	45	1	14957	2.42
66	Zn	45	1	5718	0.40
75	As	115	1	2910	0.40
78	Se	115	1	2003	2.18
83	Kr	115	2	274	7.12
95	Mo	115	2	23821	1.69
107	Ag	115	2	70790	1.12
111	Cd	115	2	13752	1.41
121	Sb	115	2	46003	1.07
137	Ba	159	2	18855	0.96
205	Tl	165	2	147071	0.76
206	(Pb)	165	2	54004	1.31
207	(Pb)	165	2	45309	1.28
208	Pb	165	2	211656	1.22

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	141710	2.71	129819	109.2	80 - 120	
45	Sc	2	1395141	1.87	1340091	104.1	80 - 120	
115	In	1	583674	2.46	549428	106.2	80 - 120	
115	In	2	1827586	2.05	1801474	101.4	80 - 120	
159	Tb	1	1434870	2.17	1375156	104.3	80 - 120	
159	Tb	2	2761058	1.74	2717503	101.6	80 - 120	
165	Ho	1	1410932	1.59	1369251	103.0	80 - 120	
165	Ho	2	2742364	1.46	2704826	101.4	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Calibration Standard QC Report

Data File:	C:\ICPCHEM\1\DATA\A030118A.b\005CALI.D\005CALI.D#
Date Acquired:	Mar 1 2018 11:12 am
Acq. Method:	6020AQ.M
Operator:	GK
Sample Name:	CalStd3 V-274291
Misc Info:	MS_7500 CALIBRATION
Vial Number:	1104
Current Method:	C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update:	Mar 01 2018 11:10 am
Sample Type:	CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	49170	0.28
23	Na	45	1	1407899	0.74
24	Mg	45	1	779985	0.98
27	Al	45	1	129713	1.37
39	K	45	1	811551	0.64
44	Ca	45	1	37607	0.50
51	V	45	1	50144	0.48
52	Cr	45	1	58620	0.67
55	Mn	45	1	47537	0.88
56	Fe	45	1	5702360	1.31
59	Co	45	1	90778	0.39
60	Ni	45	1	22703	1.11
65	Cu	45	1	29824	0.92
66	Zn	45	1	11178	0.83
75	As	115	1	5933	2.11
78	Se	115	1	4012	1.05
83	Kr	115	2	259	15.03
95	Mo	115	2	48884	0.59
107	Ag	115	2	140421	1.65
111	Cd	115	2	27508	0.30
121	Sb	115	2	90992	1.30
137	Ba	159	2	38467	0.72
205	Tl	165	2	294488	1.18
206	(Pb)	165	2	105541	0.59
207	(Pb)	165	2	88780	1.50
208	Pb	165	2	417276	0.84

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	140411	0.83	129819	108.2	80 - 120	
45	Sc	2	1406163	0.81	1340091	104.9	80 - 120	
115	In	1	580878	0.52	549428	105.7	80 - 120	
115	In	2	1807878	0.56	1801474	100.4	80 - 120	
159	Tb	1	1436579	0.09	1375156	104.5	80 - 120	
159	Tb	2	2762787	1.64	2717503	101.7	80 - 120	
165	Ho	1	1417551	0.88	1369251	103.5	80 - 120	
165	Ho	2	2746918	1.79	2704826	101.6	80 - 120	

Tune File#	1	c:\icpchem\1\7500\he.u
Tune File#	2	c:\icpchem\1\7500\noqas.u
Tune File#	3	C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures	0
0 :ISTD Failures	0

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\006CALI.D\006CALI.D#
Date Acquired: Mar 1 2018 11:18 am
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: CalStd4 V-274292
Misc Info: MS_7500 CALIBRATION
Vial Number: 1105
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Mar 01 2018 11:16 am
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	244008	0.50
23	Na	45	1	6344708	1.41
24	Mg	45	1	3620490	0.25
27	Al	45	1	617741	1.46
39	K	45	1	3582668	1.01
44	Ca	45	1	178894	1.03
51	V	45	1	244944	0.95
52	Cr	45	1	282803	0.37
55	Mn	45	1	225010	0.90
56	Fe	45	1	27165690	0.51
59	Co	45	1	436028	0.97
60	Ni	45	1	109911	1.86
65	Cu	45	1	141231	0.57
66	Zn	45	1	48950	0.39
75	As	115	1	28462	1.07
78	Se	115	1	18583	1.20
83	Kr	115	2	231	13.40
95	Mo	115	2	241579	0.22
107	Ag	115	2	694198	0.91
111	Cd	115	2	136262	0.43
121	Sb	115	2	444232	0.49
137	Ba	159	2	187913	1.10
205	Tl	165	2	1603739	1.53
206	(Pb)	165	2	507849	0.83
207	(Pb)	165	2	433778	0.29
208	Pb	165	2	2116592	0.18

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	139731	2.52	129819	107.6	80 - 120	
45	Sc	2	1401589	1.45	1340091	104.6	80 - 120	
115	In	1	567151	2.74	549428	103.2	80 - 120	
115	In	2	1776971	1.48	1801474	98.6	80 - 120	
159	Tb	1	1415339	2.20	1375156	102.9	80 - 120	
159	Tb	2	2719984	0.99	2717503	100.1	80 - 120	
165	Ho	1	1394188	1.60	1369251	101.8	80 - 120	
165	Ho	2	2728467	1.66	2704826	100.9	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Calibration Standard QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\007CALI.D\007CALI.D#
Date Acquired: Mar 1 2018 11:24 am
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: CalStd5 V-274293
Misc Info: MS_7500 CALIBRATION
Vial Number: 1106
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Mar 01 2018 11:22 am
Sample Type: CalStd

QC Elements

Element		IS Ref	Tune	CPS Mean	RSD(%)
9	Be	45	2	489639	2.13
23	Na	45	1	12691090	0.30
24	Mg	45	1	7186461	0.85
27	Al	45	1	1278243	0.71
39	K	45	1	7169232	0.59
44	Ca	45	1	362081	1.00
51	V	45	1	498713	0.74
52	Cr	45	1	567905	0.68
55	Mn	45	1	454812	0.89
56	Fe	45	1	54471220	1.99
59	Co	45	1	906757	2.32
60	Ni	45	1	216462	1.00
65	Cu	45	1	275690	0.61
66	Zn	45	1	94986	1.35
75	As	115	1	56887	0.29
78	Se	115	1	37144	1.15
83	Kr	115	2	253	6.03
95	Mo	115	2	482366	1.06
107	Ag	115	2	1414680	1.45
111	Cd	115	2	265544	0.66
121	Sb	115	2	879590	0.27
137	Ba	159	2	372768	0.22
205	Tl	165	2	3164591	0.77
206	(Pb)	165	2	1104124	1.83
207	(Pb)	165	2	839106	0.63
208	Pb	165	2	4228059	0.39

ISTD Elements

Element		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45	Sc	1	142411	0.69	129819	109.7	80 - 120	
45	Sc	2	1413320	1.43	1340091	105.5	80 - 120	
115	In	1	565437	0.87	549428	102.9	80 - 120	
115	In	2	1774404	1.14	1801474	98.5	80 - 120	
159	Tb	1	1415856	1.62	1375156	103.0	80 - 120	
159	Tb	2	2718971	0.87	2717503	100.1	80 - 120	
165	Ho	1	1397506	1.35	1369251	102.1	80 - 120	
165	Ho	2	2738590	0.64	2704826	101.2	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures 0
0 :ISTD Failures 0

Initial Calibration Verification (ICV) QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\008_ICV.D\008_ICV.D#
Date Acquired: Mar 1 2018 11:29 am
Operator: GK
Sample Name: ICV V-274294
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1109
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: Mar 01 2018 11:28 am
Sample Type: 6-ICV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	51.30	ppb	1.20	240566	50	102.6	90 - 110	
23 Na	45	1	5320.00	ppb	0.87	6515582	5000	106.4	90 - 110	
24 Mg	45	1	5278.00	ppb	1.29	3647692	5000	105.6	90 - 110	
27 Al	45	1	5181.00	ppb	1.91	2102949	5000	103.6	90 - 110	
39 K	45	1	5229.00	ppb	0.59	3619916	5000	104.6	90 - 110	
44 Ca	45	1	5348.00	ppb	0.90	185622	5000	107.0	90 - 110	
51 V	45	1	51.09	ppb	1.35	243631	50	102.2	90 - 110	
52 Cr	45	1	51.83	ppb	0.47	282400	50	103.7	90 - 110	
55 Mn	45	1	51.68	ppb	0.93	225797	50	103.4	90 - 110	
56 Fe	45	1	5146.00	ppb	1.67	26903770	5000	102.9	90 - 110	
59 Co	45	1	49.56	ppb	0.78	427944	50	99.1	90 - 110	
60 Ni	45	1	52.17	ppb	1.15	108839	50	104.3	90 - 110	
65 Cu	45	1	52.70	ppb	1.78	140498	50	105.4	90 - 110	
66 Zn	45	1	53.06	ppb	0.89	49120	50	106.1	90 - 110	
75 As	115	1	50.36	ppb	0.54	28773	50	100.7	90 - 110	
78 Se	115	1	51.25	ppb	0.59	3904	50	102.5	90 - 110	
83 Kr	115	2	--------	ppb	--------	223	50	#VALUE!	##### - #####	
95 Mo	115	2	49.94	ppb	0.81	238992	50	99.9	90 - 110	
107 Ag	115	2	9.85	ppb	0.79	137756	10	98.5	90 - 110	
111 Cd	115	2	51.48	ppb	0.86	136309	50	103.0	90 - 110	
121 Sb	115	2	49.70	ppb	0.68	435563	50	99.4	90 - 110	
137 Ba	159	2	49.82	ppb	1.43	187912	50	99.6	90 - 110	
205 Tl	165	2	50.13	ppb	0.93	1580225	50	100.3	90 - 110	
206 (Pb)	165	2	45.08	ppb	0.88	487513	50	90.2	90 - 110	
207 (Pb)	165	2	50.85	ppb	0.24	427778	50	101.7	90 - 110	
208 Pb	165	2	49.03	ppb	0.09	2064044	50	98.1	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	136083	0.56	129819	104.8	80 - 120	
45 Sc	2	1352048	1.68	1340091	100.9	80 - 120	
115 In	1	567833	1.48	549428	103.3	80 - 120	
115 In	2	1760165	1.39	1801474	97.7	80 - 120	
159 Tb	1	1418946	0.27	1375156	103.2	80 - 120	
159 Tb	2	2745887	1.47	2717503	101.0	80 - 120	
165 Ho	1	1400446	1.68	1369251	102.3	80 - 120	
165 Ho	2	2719855	1.53	2704826	100.6	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Initial Calibration Verification (ICV) QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\009_CCV.D\009_CCV.D#
Date Acquired: Mar 1 2018 11:35 am
Operator: GK
Sample Name: LLICV V-274300
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3105
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: Mar 01 2018 11:28 am
Sample Type: LL-ICV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	0.55	ppb	4.72	2657	1	109.3	70 - 130	
23 Na	45	1	233.20	ppb	2.09	395643	250	93.3	70 - 130	
24 Mg	45	1	272.60	ppb	0.59	195463	250	109.0	70 - 130	
27 Al	45	1	106.50	ppb	0.79	45115	100	106.5	70 - 130	
39 K	45	1	249.50	ppb	0.53	236496	250	99.8	70 - 130	
44 Ca	45	1	265.80	ppb	1.49	10237	250	106.3	70 - 130	
51 V	45	1	1.04	ppb	3.09	5216	1	103.8	70 - 130	
52 Cr	45	1	1.05	ppb	2.88	6383	1	104.9	70 - 130	
55 Mn	45	1	3.05	ppb	0.83	15698	3	101.7	70 - 130	
56 Fe	45	1	170.80	ppb	1.32	940509	150	113.9	70 - 130	
59 Co	45	1	1.00	ppb	1.74	9179	1	100.4	70 - 130	
60 Ni	45	1	1.53	ppb	1.26	3610	2	102.3	70 - 130	
65 Cu	45	1	5.03	ppb	4.39	14723	5	100.7	70 - 130	
66 Zn	45	1	10.25	ppb	1.63	10793	10	102.5	70 - 130	
75 As	115	1	1.02	ppb	4.06	638	1	101.6	70 - 130	
78 Se	115	1	4.84	ppb	3.74	474	5	96.8	70 - 130	
83 Kr	115	2	--------	ppb	--------	247	1	#VALUE!	##### - #####	
95 Mo	115	2	1.03	ppb	1.05	5271	1	102.8	70 - 130	
107 Ag	115	2	0.49	ppb	1.87	7350	1	98.3	70 - 130	
111 Cd	115	2	1.01	ppb	2.06	2799	1	100.5	70 - 130	
121 Sb	115	2	1.28	ppb	1.74	14732	2	85.3	70 - 130	
137 Ba	159	2	2.51	ppb	1.80	9810	3	100.5	70 - 130	
205 Tl	165	2	0.93	ppb	2.09	31261	1	93.1	70 - 130	
206 (Pb)	165	2	1.36	ppb	0.82	17490	2	90.8	70 - 130	
207 (Pb)	165	2	1.50	ppb	1.48	14942	2	99.8	70 - 130	
208 Pb	165	2	1.41	ppb	0.48	70508	2	94.1	70 - 130	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	139864	3.00	129819	107.7	80 - 120	
45 Sc	2	1378255	1.14	1340091	102.8	80 - 120	
115 In	1	593279	2.88	549428	108.0	80 - 120	
115 In	2	1834020	1.26	1801474	101.8	80 - 120	
159 Tb	1	1456854	1.12	1375156	105.9	80 - 120	
159 Tb	2	2799028	2.03	2717503	103.0	80 - 120	
165 Ho	1	1434602	1.39	1369251	104.8	80 - 120	
165 Ho	2	2811294	1.69	2704826	103.9	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Initial Calibration Blank (ICB) QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\010_ICB.D\010_ICB.D#
Date Acquired: Mar 1 2018 11:41 am
Operator: GK
Sample Name: ICB V-274295
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: Mar 01 2018 11:28 am
Sample Type: 6-ICB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.03	ppb	6.35	178	0.50	
23 Na	45	1	-30.77	ppb	5.51	67894	250.00	
24 Mg	45	1	3.44	ppb	17.93	4341	250.00	
27 Al	45	1	2.66	ppb	13.01	1811	100.00	
39 K	45	1	-16.52	ppb	6.40	49714	250.00	
44 Ca	45	1	-5.41	ppb	14.93	597	250.00	
51 V	45	1	0.03	ppb	6.20	290	1.00	
52 Cr	45	1	0.03	ppb	26.77	665	1.00	
55 Mn	45	1	-0.13	ppb	12.13	1535	3.00	
56 Fe	45	1	6.54	ppb	9.27	57846	150.00	
59 Co	45	1	0.03	ppb	11.64	505	1.00	
60 Ni	45	1	-0.06	ppb	6.44	201	1.50	
65 Cu	45	1	-0.19	ppb	6.39	529	5.00	
66 Zn	45	1	-0.65	ppb	4.67	678	10.00	
75 As	115	1	0.01	ppb	80.88	41	1.00	
78 Se	115	1	0.41	ppb	17.43	128	5.00	
83 Kr	115	2	--------	ppb	--------	282	1.00	
95 Mo	115	2	0.05	ppb	5.44	403	1.00	
107 Ag	115	2	0.01	ppb	25.48	380	0.50	
111 Cd	115	2	0.03	ppb	9.96	105	1.00	
121 Sb	115	2	-0.22	ppb	0.22	1107	1.00	
137 Ba	159	2	0.03	ppb	4.14	286	2.50	
205 Tl	165	2	0.02	ppb	14.71	1507	1.00	
206 (Pb)	165	2	0.03	ppb	21.77	2637	1.50	
207 (Pb)	165	2	0.04	ppb	12.15	2276	1.50	
208 Pb	165	2	0.04	ppb	7.90	10759	1.50	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	138062	1.49	129819	106.4	80 - 120	
45 Sc	2	1364886	1.24	1340091	101.9	80 - 120	
115 In	1	587958	1.72	549428	107.0	80 - 120	
115 In	2	1824628	1.48	1801474	101.3	80 - 120	
159 Tb	1	1446560	0.11	1375156	105.2	80 - 120	
159 Tb	2	2775410	2.02	2717503	102.1	80 - 120	
165 Ho	1	1433981	0.69	1369251	104.7	80 - 120	
165 Ho	2	2743909	0.72	2704826	101.4	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Interference Check Solution A (ICS-A) QC Report

Data File:	C:\ICPCHEM\1\DATA\A030118A.b\011ICSA.D\011ICSA.D#
Date Acquired:	Mar 1 2018 11:47 am
Acq. Method:	6020AQ.M
Operator:	GK
Sample Name:	ICSA V-274296
Misc Info:	MS_7500 6020 AQUEOUS
Vial Number:	1107
Current Method:	C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File:	C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update:	Mar 01 2018 11:28 am
Sample Type:	6-ICSA
Dilution Factor:	1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.	RSD(%)	High Limit ppb	Flag
9 Be	45	2	0.02 ppb	0.76	0.50	
23 Na	45	1	118200.00 ppb	3.34	250.00	
24 Mg	45	1	44990.00 ppb	3.23	250.00	
27 Al	45	1	44340.00 ppb	3.26	100.00	
39 K	45	1	46560.00 ppb	2.91	250.00	
44 Ca	45	1	147100.00 ppb	3.06	250.00	
51 V	45	1	0.08 ppb	9.32	1.00	
52 Cr	45	1	0.42 ppb	2.77	1.00	
55 Mn	45	1	1.17 ppb	4.04	3.00	
56 Fe	45	1	110700.00 ppb	2.98	150.00	
59 Co	45	1	0.19 ppb	6.15	1.00	
60 Ni	45	1	0.33 ppb	3.56	1.50	
65 Cu	45	1	0.26 ppb	10.05	5.00	
66 Zn	45	1	0.62 ppb	16.55	10.00	
75 As	115	1	0.32 ppb	9.28	1.00	
78 Se	115	1	0.54 ppb	24.77	5.00	
83 Kr	115	2	-------- ppb	--------	1.00	
95 Mo	115	2	1039.00 ppb	0.43	1.00	
107 Ag	115	2	0.10 ppb	3.64	0.50	
111 Cd	115	2	1.11 ppb	2.23	1.00	**
121 Sb	115	2	0.16 ppb	8.86	1.00	
137 Ba	159	2	0.83 ppb	3.14	2.50	
205 Tl	165	2	0.01 ppb	27.05	1.00	
206 (Pb)	165	2	0.07 ppb	1.16	1.50	
207 (Pb)	165	2	0.07 ppb	8.97	1.50	
208 Pb	165	2	0.07 ppb	10.25	1.50	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	140350	3.11	129819	108.1	70 - 150	
45 Sc	2	1439412	0.52	1340091	107.4	70 - 150	
115 In	1	496961	1.39	549428	90.5	70 - 150	
115 In	2	1660385	1.70	1801474	92.2	70 - 150	
159 Tb	1	1298030	0.33	1375156	94.4	70 - 150	
159 Tb	2	2590219	1.02	2717503	95.3	70 - 150	
165 Ho	1	1272821	0.72	1369251	93.0	70 - 150	
165 Ho	2	2580775	1.55	2704826	95.4	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

1 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Nnumber of ISTD Failures Allowed

Interference Check Solution AB (ICS-AB) QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\012ICSB.D\012ICSB.D#
Date Acquired: Mar 1 2018 11:53 am
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: ICSAB V-274297
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1108
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Mar 01 2018 11:28 am
Sample Type: 6-ICSAB
Dilution Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc. ppb	RSD(%)	Expected	%Recovery	QC Range(%)	Flag
9 Be	45	2	0.02	16.04	---		-	
23 Na	45	1	123500.00	1.27	---		-	
24 Mg	45	1	47250.00	1.28	---		-	
27 Al	45	1	47240.00	1.17	---		-	
39 K	45	1	49980.00	0.49	---		-	
44 Ca	45	1	158200.00	0.38	---		-	
51 V	45	1	223.90	1.76	200	112.0	80 - 120	
52 Cr	45	1	215.90	0.84	200	108.0	80 - 120	
55 Mn	45	1	217.20	1.08	200	108.6	80 - 120	
56 Fe	45	1	115800.00	0.62	---		-	
59 Co	45	1	201.10	1.70	200	100.6	80 - 120	
60 Ni	45	1	194.00	2.68	200	97.0	80 - 120	
65 Cu	45	1	193.20	1.92	---		-	
66 Zn	45	1	89.49	0.92	100	89.5	80 - 120	
75 As	115	1	104.60	1.17	100	104.6	80 - 120	
78 Se	115	1	98.19	1.72	100	98.2	80 - 120	
83 Kr	115	2	--------	--------	---		-	
95 Mo	115	2	1020.00	1.28	---		-	
107 Ag	115	2	46.95	1.13	50	93.9	80 - 120	
111 Cd	115	2	99.74	1.74	100	99.7	80 - 120	
121 Sb	115	2	0.18	5.42	---		-	
137 Ba	159	2	0.80	3.98	---		-	
205 Tl	165	2	0.01	34.33	---		-	
206 (Pb)	165	2	0.19	2.52	---		-	
207 (Pb)	165	2	0.20	8.35	---		-	
208 Pb	165	2	0.20	0.93	---		-	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	137466	1.52	129819	105.9	70 - 150	
45 Sc	2	1378697	0.55	1340091	102.9	70 - 150	
115 In	1	524240	0.19	549428	95.4	70 - 150	
115 In	2	1664030	1.10	1801474	92.4	70 - 150	
159 Tb	1	1351571	1.23	1375156	98.3	70 - 150	
159 Tb	2	2627067	2.25	2717503	96.7	70 - 150	
165 Ho	1	1331326	0.65	1369251	97.2	70 - 150	
165 Ho	2	2596235	1.83	2704826	96.0	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\013SMPL.D\013SMPL.D#
Date Acquired: Mar 1 2018 11:59 am
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: RINSE
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Mar 01 2018 11:28 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.05	0.05	ppb	4.14	312	2700	
23 Na	45	1	87.06	87.06	ppb	3.26	222413	225000	
24 Mg	45	1	47.24	47.24	ppb	1.50	36770	225000	
27 Al	45	1	40.72	40.72	ppb	1.79	18340	225000	
39 K	45	1	28.28	28.28	ppb	4.47	84627	225000	
44 Ca	45	1	128.10	128.10	ppb	2.97	5540	225000	
51 V	45	1	0.14	0.14	ppb	1.82	861	2250	
52 Cr	45	1	0.14	0.14	ppb	3.35	1331	2250	
55 Mn	45	1	0.09	0.09	ppb	4.06	2631	2250	
56 Fe	45	1	109.10	109.10	ppb	1.89	630686	180000	
59 Co	45	1	0.13	0.13	ppb	6.27	1479	2250	
60 Ni	45	1	0.09	0.09	ppb	18.92	546	2250	
65 Cu	45	1	0.07	0.07	ppb	11.85	1290	2700	
66 Zn	45	1	2.49	2.49	ppb	4.14	3722	2700	
75 As	115	1	0.09	0.09	ppb	9.65	92	2700	
78 Se	115	1	0.54	0.54	ppb	8.62	147	2700	
83 Kr	115	2	----	--------	ppb	--------	277	2700	
95 Mo	115	2	0.95	0.95	ppb	3.82	5111	2700	
107 Ag	115	2	0.05	0.05	ppb	9.04	941	900	
111 Cd	115	2	0.09	0.09	ppb	7.36	291	2700	
121 Sb	115	2	-0.23	-0.23	ppb	2.24	1085	2700	
137 Ba	159	2	0.08	0.08	ppb	10.04	494	2700	
205 Tl	165	2	0.04	0.04	ppb	11.35	2237	2700	
206 (Pb)	165	2	0.10	0.10	ppb	6.02	3560	2700	
207 (Pb)	165	2	0.11	0.11	ppb	1.80	3002	2700	
208 Pb	165	2	0.11	0.11	ppb	5.09	14501	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	144852	0.48	129819	111.6	70 - 150	
45 Sc	2	1419880	0.27	1340091	106.0	70 - 150	
115 In	1	624846	0.63	549428	113.7	70 - 150	
115 In	2	1913984	0.77	1801474	106.2	70 - 150	
159 Tb	1	1524176	0.56	1375156	110.8	70 - 150	
159 Tb	2	2945422	0.53	2717503	108.4	70 - 150	
165 Ho	1	1521001	1.66	1369251	111.1	70 - 150	
165 Ho	2	2909613	0.92	2704826	107.6	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\014SMPL.D\014SMPL.D#
Date Acquired: Mar 1 2018 12:04 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: AD02671-003
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1201
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Mar 01 2018 11:28 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.01	0.01	ppb	16.49	84	2700	
23 Na	45	1	51,760.00	51760.00	ppb	2.40	58461280	225000	
24 Mg	45	1	1,127.00	1127.00	ppb	1.28	730451	225000	
27 Al	45	1	93.30	93.30	ppb	1.22	36072	225000	
39 K	45	1	1,540.00	1540.00	ppb	1.84	1037339	225000	
44 Ca	45	1	7,314.00	7314.00	ppb	1.35	237224	225000	
51 V	45	1	0.37	0.37	ppb	1.71	1758	2250	
52 Cr	45	1	0.36	0.36	ppb	3.51	2314	2250	
55 Mn	45	1	183.40	183.40	ppb	1.24	744768	2250	
56 Fe	45	1	635.90	635.90	ppb	0.54	3128060	180000	
59 Co	45	1	0.15	0.15	ppb	0.70	1423	2250	
60 Ni	45	1	0.33	0.33	ppb	5.92	946	2250	
65 Cu	45	1	0.77	0.77	ppb	7.28	2844	2700	
66 Zn	45	1	3.01	3.01	ppb	1.23	3711	2700	
75 As	115	1	0.57	0.57	ppb	1.28	330	2700	
78 Se	115	1	0.59	0.59	ppb	27.89	127	2700	
83 Kr	115	2	----	--------	ppb	--------	253	2700	
95 Mo	115	2	0.52	0.52	ppb	2.15	2417	2700	
107 Ag	115	2	0.02	0.02	ppb	10.80	396	900	
111 Cd	115	2	0.04	0.04	ppb	3.13	124	2700	
121 Sb	115	2	-0.03	-0.03	ppb	16.23	2484	2700	
137 Ba	159	2	12.45	12.45	ppb	2.49	43476	2700	
205 Tl	165	2	0.00	0.00	ppb	42.65	920	2700	
206 (Pb)	165	2	0.30	0.30	ppb	2.20	5178	2700	
207 (Pb)	165	2	0.32	0.32	ppb	2.87	4297	2700	
208 Pb	165	2	0.31	0.31	ppb	1.48	20587	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	127292	0.99	129819	98.1	70 - 150	
45 Sc	2	1231248	0.62	1340091	91.9	70 - 150	
115 In	1	524054	1.92	549428	95.4	70 - 150	
115 In	2	1604898	2.58	1801474	89.1	70 - 150	
159 Tb	1	1366406	2.98	1375156	99.4	70 - 150	
159 Tb	2	2535567	1.82	2717503	93.3	70 - 150	
165 Ho	1	1351630	1.60	1369251	98.7	70 - 150	
165 Ho	2	2552828	1.06	2704826	94.4	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\015SMPL.D\015SMPL.D#
Date Acquired: Mar 1 2018 12:10 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: AD02671-003 MR
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1202
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Mar 01 2018 11:28 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.01	0.01	ppb	18.40	81	2700	
23 Na	45	1	44,940.00	44940.00	ppb	0.68	51757168	225000	
24 Mg	45	1	974.20	974.20	ppb	0.97	643740	225000	
27 Al	45	1	72.44	72.44	ppb	0.61	28709	225000	
39 K	45	1	1,339.00	1339.00	ppb	0.37	926801	225000	
44 Ca	45	1	6,332.00	6332.00	ppb	0.72	209522	225000	
51 V	45	1	0.34	0.34	ppb	1.03	1648	2250	
52 Cr	45	1	0.39	0.39	ppb	1.35	2504	2250	
55 Mn	45	1	149.30	149.30	ppb	1.04	618360	2250	
56 Fe	45	1	467.60	467.60	ppb	0.87	2351252	180000	
59 Co	45	1	0.11	0.11	ppb	4.53	1199	2250	
60 Ni	45	1	0.12	0.12	ppb	14.12	539	2250	
65 Cu	45	1	0.68	0.68	ppb	7.61	2674	2700	
66 Zn	45	1	1.40	1.40	ppb	3.41	2402	2700	
75 As	115	1	0.82	0.82	ppb	5.14	470	2700	
78 Se	115	1	0.39	0.39	ppb	27.27	115	2700	
83 Kr	115	2	----	--------	ppb	--------	254	2700	
95 Mo	115	2	0.32	0.32	ppb	3.66	1540	2700	
107 Ag	115	2	0.02	0.02	ppb	16.40	397	900	
111 Cd	115	2	0.03	0.03	ppb	5.07	94	2700	
121 Sb	115	2	-0.10	-0.10	ppb	5.29	1948	2700	
137 Ba	159	2	10.58	10.58	ppb	1.29	37532	2700	
205 Tl	165	2	0.00	0.00	ppb	50.49	739	2700	
206 (Pb)	165	2	0.10	0.10	ppb	9.21	3177	2700	
207 (Pb)	165	2	0.14	0.14	ppb	9.90	2876	2700	
208 Pb	165	2	0.12	0.12	ppb	6.20	13288	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	129804	0.50	129819	100.0	70 - 150	
45 Sc	2	1227333	1.31	1340091	91.6	70 - 150	
115 In	1	534263	0.65	549428	97.2	70 - 150	
115 In	2	1602677	1.20	1801474	89.0	70 - 150	
159 Tb	1	1373227	0.46	1375156	99.9	70 - 150	
159 Tb	2	2573804	2.25	2717503	94.7	70 - 150	
165 Ho	1	1367197	1.15	1369251	99.9	70 - 150	
165 Ho	2	2559832	1.98	2704826	94.6	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\016SMPL.D\016SMPL.D#
Date Acquired: Mar 1 2018 12:16 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: AD02671-003 SD
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1206
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Mar 01 2018 11:28 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.01	0.01	ppb	35.71	100	2700	
23 Na	45	1	10,600.00	10600.00	ppb	0.75	12713530	225000	
24 Mg	45	1	239.40	239.40	ppb	0.52	165148	225000	
27 Al	45	1	27.55	27.55	ppb	1.59	11732	225000	
39 K	45	1	312.00	312.00	ppb	0.86	269152	225000	
44 Ca	45	1	1,520.00	1520.00	ppb	1.41	52636	225000	
51 V	45	1	0.12	0.12	ppb	4.03	676	2250	
52 Cr	45	1	0.10	0.10	ppb	1.46	1015	2250	
55 Mn	45	1	38.22	38.22	ppb	0.72	165408	2250	
56 Fe	45	1	151.30	151.30	ppb	2.52	802824	180000	
59 Co	45	1	0.04	0.04	ppb	4.62	639	2250	
60 Ni	45	1	0.06	0.06	ppb	12.11	447	2250	
65 Cu	45	1	0.29	0.29	ppb	2.91	1747	2700	
66 Zn	45	1	2.63	2.63	ppb	37.49	3582	2700	
75 As	115	1	0.13	0.13	ppb	10.74	108	2700	
78 Se	115	1	0.18	0.18	ppb	35.15	110	2700	
83 Kr	115	2	----	--------	ppb	--------	238	2700	
95 Mo	115	2	0.25	0.25	ppb	1.85	1366	2700	
107 Ag	115	2	0.01	0.01	ppb	22.91	309	900	
111 Cd	115	2	0.02	0.02	ppb	13.49	87	2700	
121 Sb	115	2	-0.27	-0.27	ppb	1.06	679	2700	
137 Ba	159	2	2.56	2.56	ppb	2.39	9918	2700	
205 Tl	165	2	-0.01	-0.01	ppb	9.47	666	2700	
206 (Pb)	165	2	0.04	0.04	ppb	11.73	2760	2700	
207 (Pb)	165	2	0.06	0.06	ppb	35.29	2493	2700	
208 Pb	165	2	0.06	0.06	ppb	7.98	11573	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	134340	0.92	129819	103.5	70 - 150	
45 Sc	2	1326624	0.36	1340091	99.0	70 - 150	
115 In	1	582785	1.07	549428	106.1	70 - 150	
115 In	2	1785638	0.84	1801474	99.1	70 - 150	
159 Tb	1	1457458	1.48	1375156	106.0	70 - 150	
159 Tb	2	2777385	0.74	2717503	102.2	70 - 150	
165 Ho	1	1449421	1.27	1369251	105.9	70 - 150	
165 Ho	2	2758189	0.38	2704826	102.0	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\017SMPL.D\017SMPL.D#
Date Acquired: Mar 1 2018 12:22 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: AD02671-003 MS 1
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1203
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Mar 01 2018 11:28 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	247.50	247.50	ppb	1.75	1047419	2700	
23 Na	45	1	66,110.00	66110.00	ppb	3.23	77284888	225000	
24 Mg	45	1	23,490.00	23490.00	ppb	2.70	15725190	225000	
27 Al	45	1	2,330.00	2330.00	ppb	3.85	916872	225000	
39 K	45	1	24,200.00	24200.00	ppb	2.81	16023630	225000	
44 Ca	45	1	31,110.00	31110.00	ppb	2.07	1042809	225000	
51 V	45	1	236.70	236.70	ppb	2.25	1093001	2250	
52 Cr	45	1	231.10	231.10	ppb	1.45	1218482	2250	
55 Mn	45	1	374.90	374.90	ppb	2.25	1574846	2250	
56 Fe	45	1	2,630.00	2630.00	ppb	2.07	13335130	180000	
59 Co	45	1	222.70	222.70	ppb	2.19	1861757	2250	
60 Ni	45	1	219.90	219.90	ppb	2.55	443384	2250	
65 Cu	45	1	224.60	224.60	ppb	2.28	576799	2700	
66 Zn	45	1	214.80	214.80	ppb	2.05	188937	2700	
75 As	115	1	234.80	234.80	ppb	0.86	120282	2700	
78 Se	115	1	226.70	226.70	ppb	0.61	15216	2700	
83 Kr	115	2	----	--------	ppb	--------	263	2700	
95 Mo	115	2	244.70	244.70	ppb	1.28	1012491	2700	
107 Ag	115	2	42.63	42.63	ppb	0.30	515302	900	
111 Cd	115	2	229.10	229.10	ppb	0.54	524522	2700	
121 Sb	115	2	246.10	246.10	ppb	0.55	1854797	2700	
137 Ba	159	2	238.30	238.30	ppb	0.70	810773	2700	
205 Tl	165	2	222.20	222.20	ppb	0.54	6385612	2700	
206 (Pb)	165	2	229.00	229.00	ppb	1.71	2250167	2700	
207 (Pb)	165	2	247.90	247.90	ppb	2.19	1895313	2700	
208 Pb	165	2	228.50	228.50	ppb	1.94	8738161	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	131869	3.13	129819	101.6	70 - 150	
45 Sc	2	1220341	0.84	1340091	91.1	70 - 150	
115 In	1	509761	3.62	549428	92.8	70 - 150	
115 In	2	1522265	0.21	1801474	84.5	70 - 150	
159 Tb	1	1327925	0.41	1375156	96.6	70 - 150	
159 Tb	2	2478706	2.07	2717503	91.2	70 - 150	
165 Ho	1	1313964	1.45	1369251	96.0	70 - 150	
165 Ho	2	2480739	2.67	2704826	91.7	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\018SMPL.D\018SMPL.D#
Date Acquired: Mar 1 2018 12:28 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: AD02671-003 MS 2
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1204
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Mar 01 2018 11:28 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	253.60	253.60	ppb	1.26	1066262	2700	
23 Na	45	1	71,760.00	71760.00	ppb	2.09	80147272	225000	
24 Mg	45	1	25,180.00	25180.00	ppb	2.19	16099520	225000	
27 Al	45	1	2,490.00	2490.00	ppb	1.98	935797	225000	
39 K	45	1	25,160.00	25160.00	ppb	2.46	15905380	225000	
44 Ca	45	1	32,240.00	32240.00	ppb	1.99	1032002	225000	
51 V	45	1	248.60	248.60	ppb	0.72	1096963	2250	
52 Cr	45	1	242.70	242.70	ppb	1.40	1222048	2250	
55 Mn	45	1	396.70	396.70	ppb	1.67	1591606	2250	
56 Fe	45	1	2,771.00	2771.00	ppb	1.89	13415810	180000	
59 Co	45	1	233.90	233.90	ppb	1.96	1868544	2250	
60 Ni	45	1	231.10	231.10	ppb	1.66	445282	2250	
65 Cu	45	1	236.40	236.40	ppb	1.39	580039	2700	
66 Zn	45	1	226.90	226.90	ppb	1.77	190579	2700	
75 As	115	1	240.30	240.30	ppb	0.34	121389	2700	
78 Se	115	1	228.20	228.20	ppb	1.33	15100	2700	
83 Kr	115	2	----	--------	ppb	--------	283	2700	
95 Mo	115	2	250.40	250.40	ppb	0.60	1028309	2700	
107 Ag	115	2	43.74	43.74	ppb	0.32	524827	900	
111 Cd	115	2	234.50	234.50	ppb	0.64	532950	2700	
121 Sb	115	2	250.10	250.10	ppb	0.93	1871092	2700	
137 Ba	159	2	242.80	242.80	ppb	0.79	816261	2700	
205 Tl	165	2	230.90	230.90	ppb	0.20	6518345	2700	
206 (Pb)	165	2	236.10	236.10	ppb	1.12	2279236	2700	
207 (Pb)	165	2	253.30	253.30	ppb	0.62	1902619	2700	
208 Pb	165	2	234.40	234.40	ppb	0.82	8810548	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	125961	0.85	129819	97.0	70 - 150	
45 Sc	2	1212158	1.00	1340091	90.5	70 - 150	
115 In	1	502474	1.09	549428	91.5	70 - 150	
115 In	2	1511182	0.22	1801474	83.9	70 - 150	
159 Tb	1	1311931	1.48	1375156	95.4	70 - 150	
159 Tb	2	2448699	1.39	2717503	90.1	70 - 150	
165 Ho	1	1302566	1.20	1369251	95.1	70 - 150	
165 Ho	2	2437264	0.64	2704826	90.1	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\019SMPL.D\019SMPL.D#
Date Acquired: Mar 1 2018 12:33 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: AD02671-003 PS
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1205
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Mar 01 2018 11:28 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	51.15	51.15	ppb	1.66	215980	2700	
23 Na	45	1	54,250.00	54250.00	ppb	2.57	60322328	225000	
24 Mg	45	1	5,929.00	5929.00	ppb	0.78	3775393	225000	
27 Al	45	1	1,548.00	1548.00	ppb	0.31	579313	225000	
39 K	45	1	6,440.00	6440.00	ppb	2.09	4093750	225000	
44 Ca	45	1	12,030.00	12030.00	ppb	1.05	383860	225000	
51 V	45	1	50.19	50.19	ppb	2.68	220395	2250	
52 Cr	45	1	50.61	50.61	ppb	2.38	253974	2250	
55 Mn	45	1	236.70	236.70	ppb	1.97	945865	2250	
56 Fe	45	1	5,481.00	5481.00	ppb	2.24	26383170	180000	
59 Co	45	1	48.52	48.52	ppb	2.29	385819	2250	
60 Ni	45	1	50.37	50.37	ppb	3.02	96773	2250	
65 Cu	45	1	51.88	51.88	ppb	3.22	127369	2700	
66 Zn	45	1	52.80	52.80	ppb	2.63	45023	2700	
75 As	115	1	50.65	50.65	ppb	0.47	25382	2700	
78 Se	115	1	240.60	240.60	ppb	1.22	15776	2700	
83 Kr	115	2	----	--------	ppb	--------	266	2700	
95 Mo	115	2	51.39	51.39	ppb	0.63	210903	2700	
107 Ag	115	2	39.52	39.52	ppb	0.68	473638	900	
111 Cd	115	2	49.20	49.20	ppb	0.28	111689	2700	
121 Sb	115	2	51.41	51.41	ppb	1.05	386187	2700	
137 Ba	159	2	61.64	61.64	ppb	0.94	207602	2700	
205 Tl	165	2	51.09	51.09	ppb	0.84	1441238	2700	
206 (Pb)	165	2	46.28	46.28	ppb	0.64	447906	2700	
207 (Pb)	165	2	50.40	50.40	ppb	0.57	379520	2700	
208 Pb	165	2	47.80	47.80	ppb	1.30	1800902	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	125379	2.98	129819	96.6	70 - 150	
45 Sc	2	1217381	1.28	1340091	90.8	70 - 150	
115 In	1	498110	1.18	549428	90.7	70 - 150	
115 In	2	1509208	1.39	1801474	83.8	70 - 150	
159 Tb	1	1297286	0.21	1375156	94.3	70 - 150	
159 Tb	2	2452489	1.82	2717503	90.2	70 - 150	
165 Ho	1	1292705	1.05	1369251	94.4	70 - 150	
165 Ho	2	2434071	1.91	2704826	90.0	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\020SMPL.D\020SMPL.D#
Date Acquired: Mar 1 2018 12:39 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: RINSE
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Mar 01 2018 11:28 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.27	0.27	ppb	1.53	1279	2700	
23 Na	45	1	134.80	134.80	ppb	2.94	264979	225000	
24 Mg	45	1	44.95	44.95	ppb	1.86	32772	225000	
27 Al	45	1	21.31	21.31	ppb	3.17	9299	225000	
39 K	45	1	25.64	25.64	ppb	2.15	77266	225000	
44 Ca	45	1	90.18	90.18	ppb	2.36	3871	225000	
51 V	45	1	0.27	0.27	ppb	3.79	1412	2250	
52 Cr	45	1	0.25	0.25	ppb	5.16	1838	2250	
55 Mn	45	1	0.46	0.46	ppb	4.85	4031	2250	
56 Fe	45	1	52.32	52.32	ppb	1.22	294424	180000	
59 Co	45	1	0.23	0.23	ppb	3.35	2269	2250	
60 Ni	45	1	0.20	0.20	ppb	7.91	740	2250	
65 Cu	45	1	0.26	0.26	ppb	17.72	1682	2700	
66 Zn	45	1	2.67	2.67	ppb	4.97	3640	2700	
75 As	115	1	0.24	0.24	ppb	3.22	175	2700	
78 Se	115	1	0.60	0.60	ppb	24.54	145	2700	
83 Kr	115	2	----	--------	ppb	--------	290	2700	
95 Mo	115	2	0.53	0.53	ppb	4.63	2779	2700	
107 Ag	115	2	0.11	0.11	ppb	5.93	1746	900	
111 Cd	115	2	0.26	0.26	ppb	7.86	739	2700	
121 Sb	115	2	-0.04	-0.04	ppb	20.47	2753	2700	
137 Ba	159	2	0.30	0.30	ppb	3.77	1323	2700	
205 Tl	165	2	0.33	0.33	ppb	2.38	11690	2700	
206 (Pb)	165	2	0.29	0.29	ppb	2.37	5535	2700	
207 (Pb)	165	2	0.32	0.32	ppb	2.49	4690	2700	
208 Pb	165	2	0.30	0.30	ppb	0.42	22182	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	135302	0.90	129819	104.2	70 - 150	
45 Sc	2	1318817	2.08	1340091	98.4	70 - 150	
115 In	1	596844	1.53	549428	108.6	70 - 150	
115 In	2	1819633	2.20	1801474	101.0	70 - 150	
159 Tb	1	1482067	0.15	1375156	107.8	70 - 150	
159 Tb	2	2800473	1.07	2717503	103.1	70 - 150	
165 Ho	1	1454189	0.83	1369251	106.2	70 - 150	
165 Ho	2	2779945	1.33	2704826	102.8	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\021_CCV.D\021_CCV.D#
Date Acquired: Mar 1 2018 12:45 pm
Operator: GK
Sample Name: CCV V-274298
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3103
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: Mar 01 2018 11:28 am
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	51.40	ppb	0.81	239430	50	102.8	90 - 110	
23 Na	45	1	5165.00	ppb	0.50	6327321	5000	103.3	90 - 110	
24 Mg	45	1	5206.00	ppb	1.01	3596579	5000	104.1	90 - 110	
27 Al	45	1	1533.00	ppb	0.60	622410	1500	102.2	90 - 110	
39 K	45	1	5215.00	ppb	0.82	3608947	5000	104.3	90 - 110	
44 Ca	45	1	5179.00	ppb	0.88	179708	5000	103.6	90 - 110	
51 V	45	1	51.57	ppb	1.42	245796	50	103.1	90 - 110	
52 Cr	45	1	51.61	ppb	1.86	281107	50	103.2	90 - 110	
55 Mn	45	1	51.70	ppb	0.49	225815	50	103.4	90 - 110	
56 Fe	45	1	5199.00	ppb	0.75	27164140	5000	104.0	90 - 110	
59 Co	45	1	49.90	ppb	0.78	430730	50	99.8	90 - 110	
60 Ni	45	1	51.67	ppb	2.01	107772	50	103.3	90 - 110	
65 Cu	45	1	51.90	ppb	0.37	138339	50	103.8	90 - 110	
66 Zn	45	1	52.59	ppb	1.64	48673	50	105.2	90 - 110	
75 As	115	1	50.42	ppb	0.08	28725	50	100.8	90 - 110	
78 Se	115	1	254.80	ppb	0.99	18986	250	101.9	90 - 110	
83 Kr	115	2	--------	ppb	--------	262	50	#VALUE!	##### - #####	
95 Mo	115	2	50.91	ppb	0.36	237968	50	101.8	90 - 110	
107 Ag	115	2	50.06	ppb	1.24	683334	50	100.1	90 - 110	
111 Cd	115	2	51.70	ppb	0.11	133705	50	103.4	90 - 110	
121 Sb	115	2	51.17	ppb	0.52	437880	50	102.3	90 - 110	
137 Ba	159	2	50.40	ppb	0.18	187504	50	100.8	90 - 110	
205 Tl	165	2	52.19	ppb	0.83	1634356	50	104.4	90 - 110	
206 (Pb)	165	2	47.08	ppb	1.88	505813	50	94.2	90 - 110	
207 (Pb)	165	2	51.73	ppb	1.86	432350	50	103.5	90 - 110	
208 Pb	165	2	50.54	ppb	2.03	2113310	50	101.1	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	136035	0.88	129819	104.8	80 - 120	
45 Sc	2	1342862	0.77	1340091	100.2	80 - 120	
115 In	1	566290	1.15	549428	103.1	80 - 120	
115 In	2	1719248	1.51	1801474	95.4	80 - 120	
159 Tb	1	1392269	1.52	1375156	101.2	80 - 120	
159 Tb	2	2708266	1.07	2717503	99.7	80 - 120	
165 Ho	1	1398679	1.31	1369251	102.1	80 - 120	
165 Ho	2	2702252	0.58	2704826	99.9	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\022_CCV.D\022_CCV.D#
Date Acquired: Mar 1 2018 12:51 pm
Operator: GK
Sample Name: LLCCV V-274300
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3105
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: Mar 01 2018 11:28 am
Sample Type: LL-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	0.55	ppb	8.29	2570	1	109.1	70 - 130	
23 Na	45	1	248.60	ppb	0.83	402072	250	99.4	70 - 130	
24 Mg	45	1	270.00	ppb	0.29	187694	250	108.0	70 - 130	
27 Al	45	1	102.30	ppb	1.11	42044	100	102.3	70 - 130	
39 K	45	1	244.60	ppb	1.67	225924	250	97.8	70 - 130	
44 Ca	45	1	262.00	ppb	2.98	9799	250	104.8	70 - 130	
51 V	45	1	1.03	ppb	1.82	5035	1	103.3	70 - 130	
52 Cr	45	1	1.05	ppb	0.21	6217	1	105.4	70 - 130	
55 Mn	45	1	2.92	ppb	1.72	14632	3	97.2	70 - 130	
56 Fe	45	1	168.00	ppb	0.53	897102	150	112.0	70 - 130	
59 Co	45	1	1.01	ppb	1.80	8931	1	100.8	70 - 130	
60 Ni	45	1	1.55	ppb	1.55	3527	2	103.2	70 - 130	
65 Cu	45	1	4.91	ppb	1.79	13965	5	98.2	70 - 130	
66 Zn	45	1	10.00	ppb	1.12	10236	10	100.0	70 - 130	
75 As	115	1	1.01	ppb	0.43	616	1	100.8	70 - 130	
78 Se	115	1	5.46	ppb	3.46	507	5	109.2	70 - 130	
83 Kr	115	2	--------	ppb	--------	261	1	#VALUE!	##### - #####	
95 Mo	115	2	1.05	ppb	2.08	5158	1	104.5	70 - 130	
107 Ag	115	2	0.50	ppb	0.69	7178	1	99.7	70 - 130	
111 Cd	115	2	1.02	ppb	2.03	2737	1	102.2	70 - 130	
121 Sb	115	2	1.17	ppb	2.73	13259	2	78.2	70 - 130	
137 Ba	159	2	2.48	ppb	0.79	9506	3	99.3	70 - 130	
205 Tl	165	2	0.95	ppb	2.93	30951	1	95.0	70 - 130	
206 (Pb)	165	2	1.36	ppb	2.32	16903	2	90.3	70 - 130	
207 (Pb)	165	2	1.49	ppb	4.28	14406	2	99.1	70 - 130	
208 Pb	165	2	1.40	ppb	2.98	67712	2	93.0	70 - 130	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	135556	1.96	129819	104.4	80 - 120	
45 Sc	2	1334861	0.84	1340091	99.6	80 - 120	
115 In	1	576941	2.41	549428	105.0	80 - 120	
115 In	2	1766286	2.13	1801474	98.0	80 - 120	
159 Tb	1	1430066	1.87	1375156	104.0	80 - 120	
159 Tb	2	2744264	0.89	2717503	101.0	80 - 120	
165 Ho	1	1428454	1.08	1369251	104.3	80 - 120	
165 Ho	2	2728616	1.60	2704826	100.9	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\023_CCB.D\023_CCB.D#
Date Acquired: Mar 1 2018 12:57 pm
Operator: GK
Sample Name: CCB V-274295
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: Mar 01 2018 11:28 am
Sample Type: 6-CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.036	ppb	8.73	210	0.50	
23 Na	45	1	-14.400	ppb	12.76	85342	250.00	
24 Mg	45	1	5.427	ppb	3.47	5571	250.00	
27 Al	45	1	2.087	ppb	7.07	1530	100.00	
39 K	45	1	-14.810	ppb	4.35	49404	250.00	
44 Ca	45	1	-0.400	ppb	158.02	750	250.00	
51 V	45	1	0.042	ppb	7.91	323	1.00	
52 Cr	45	1	0.039	ppb	7.42	709	1.00	
55 Mn	45	1	-0.165	ppb	5.58	1330	3.00	
56 Fe	45	1	6.535	ppb	5.78	56127	150.00	
59 Co	45	1	0.031	ppb	2.82	530	1.00	
60 Ni	45	1	-0.049	ppb	21.26	216	1.50	
65 Cu	45	1	-0.160	ppb	1.19	582	5.00	
66 Zn	45	1	-0.692	ppb	4.14	620	10.00	
75 As	115	1	0.041	ppb	22.17	55	1.00	
78 Se	115	1	0.435	ppb	31.84	127	5.00	
83 Kr	115	2	--------	ppb	--------	250	1.00	
95 Mo	115	2	0.072	ppb	5.74	490	1.00	
107 Ag	115	2	0.010	ppb	16.98	328	0.50	
111 Cd	115	2	0.041	ppb	6.01	133	1.00	
121 Sb	115	2	-0.271	ppb	1.98	651	1.50	
137 Ba	159	2	0.037	ppb	32.09	293	2.50	
205 Tl	165	2	0.045	ppb	6.01	2323	1.00	
206 (Pb)	165	2	0.011	ppb	50.61	2377	1.50	
207 (Pb)	165	2	-0.006	ppb	102.95	1865	1.50	
208 Pb	165	2	0.012	ppb	34.35	9537	1.50	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	134015	0.68	129819	103.2	80 - 120	
45 Sc	2	1329574	0.06	1340091	99.2	80 - 120	
115 In	1	574569	1.23	549428	104.6	80 - 120	
115 In	2	1770983	2.66	1801474	98.3	80 - 120	
159 Tb	1	1423512	0.65	1375156	103.5	80 - 120	
159 Tb	2	2743444	1.59	2717503	101.0	80 - 120	
165 Ho	1	1408336	0.53	1369251	102.9	80 - 120	
165 Ho	2	2718690	0.93	2704826	100.5	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\024SMPL.D\024SMPL.D#
Date Acquired: Mar 1 2018 01:03 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: AD02771-001
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1207
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Mar 01 2018 11:28 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.03	0.03	ppb	12.37	154	2700	
23 Na	45	1	10,850.00	10850.00	ppb	2.38	12305810	225000	
24 Mg	45	1	2,354.00	2354.00	ppb	2.40	1519412	225000	
27 Al	45	1	20.87	20.87	ppb	2.60	8562	225000	
39 K	45	1	957.10	957.10	ppb	2.14	664268	225000	
44 Ca	45	1	14,090.00	14090.00	ppb	3.18	454963	225000	
51 V	45	1	0.47	0.47	ppb	2.26	2201	2250	
52 Cr	45	1	0.42	0.42	ppb	4.88	2602	2250	
55 Mn	45	1	318.40	318.40	ppb	2.31	1288344	2250	
56 Fe	45	1	443.40	443.40	ppb	2.57	2182418	180000	
59 Co	45	1	3.80	3.80	ppb	3.30	30870	2250	
60 Ni	45	1	3.58	3.58	ppb	3.11	7243	2250	
65 Cu	45	1	0.48	0.48	ppb	6.08	2136	2700	
66 Zn	45	1	2.04	2.04	ppb	7.69	2883	2700	
75 As	115	1	0.29	0.29	ppb	7.33	182	2700	
78 Se	115	1	0.43	0.43	ppb	25.33	115	2700	
83 Kr	115	2	----	--------	ppb	--------	242	2700	
95 Mo	115	2	2.35	2.35	ppb	1.80	10310	2700	
107 Ag	115	2	0.01	0.01	ppb	38.42	301	900	
111 Cd	115	2	0.08	0.08	ppb	9.09	203	2700	
121 Sb	115	2	-0.16	-0.16	ppb	7.37	1483	2700	
137 Ba	159	2	9.10	9.10	ppb	1.16	31541	2700	
205 Tl	165	2	0.05	0.05	ppb	7.19	2326	2700	
206 (Pb)	165	2	0.07	0.07	ppb	6.85	2830	2700	
207 (Pb)	165	2	0.09	0.09	ppb	19.75	2457	2700	
208 Pb	165	2	0.09	0.09	ppb	12.55	11667	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	127048	3.20	129819	97.9	70 - 150	
45 Sc	2	1227396	1.15	1340091	91.6	70 - 150	
115 In	1	520228	1.14	549428	94.7	70 - 150	
115 In	2	1592267	1.86	1801474	88.4	70 - 150	
159 Tb	1	1317968	1.54	1375156	95.8	70 - 150	
159 Tb	2	2515174	1.87	2717503	92.6	70 - 150	
165 Ho	1	1321395	0.04	1369251	96.5	70 - 150	
165 Ho	2	2513087	1.76	2704826	92.9	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\025SMPL.D\025SMPL.D#
Date Acquired: Mar 1 2018 01:09 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: AD02771-002
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1208
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Mar 01 2018 11:28 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.04	0.04	ppb	18.94	188	2700	
23 Na	45	1	5,415.00	5415.00	ppb	2.74	6251848	225000	
24 Mg	45	1	2,176.00	2176.00	ppb	2.96	1418868	225000	
27 Al	45	1	227.50	227.50	ppb	0.80	87720	225000	
39 K	45	1	1,016.00	1016.00	ppb	1.93	709176	225000	
44 Ca	45	1	14,100.00	14100.00	ppb	2.16	460290	225000	
51 V	45	1	0.64	0.64	ppb	2.82	2996	2250	
52 Cr	45	1	1.18	1.18	ppb	2.06	6525	2250	
55 Mn	45	1	179.80	179.80	ppb	2.25	736017	2250	
56 Fe	45	1	1,045.00	1045.00	ppb	1.82	5168426	180000	
59 Co	45	1	2.48	2.48	ppb	1.76	20454	2250	
60 Ni	45	1	3.48	3.48	ppb	1.38	7135	2250	
65 Cu	45	1	1.90	1.90	ppb	1.25	5695	2700	
66 Zn	45	1	5.31	5.31	ppb	1.75	5696	2700	
75 As	115	1	0.45	0.45	ppb	4.39	268	2700	
78 Se	115	1	0.60	0.60	ppb	28.53	129	2700	
83 Kr	115	2	----	--------	ppb	--------	228	2700	
95 Mo	115	2	0.44	0.44	ppb	1.93	2010	2700	
107 Ag	115	2	0.01	0.01	ppb	40.60	244	900	
111 Cd	115	2	0.07	0.07	ppb	8.42	188	2700	
121 Sb	115	2	-0.19	-0.19	ppb	2.20	1235	2700	
137 Ba	159	2	13.77	13.77	ppb	1.69	47506	2700	
205 Tl	165	2	0.05	0.05	ppb	8.20	2269	2700	
206 (Pb)	165	2	0.49	0.49	ppb	4.34	7021	2700	
207 (Pb)	165	2	0.55	0.55	ppb	2.19	6047	2700	
208 Pb	165	2	0.51	0.51	ppb	1.71	28136	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	128329	1.55	129819	98.9	70 - 150	
45 Sc	2	1201050	1.63	1340091	89.6	70 - 150	
115 In	1	531954	1.60	549428	96.8	70 - 150	
115 In	2	1570441	1.77	1801474	87.2	70 - 150	
159 Tb	1	1342867	1.25	1375156	97.7	70 - 150	
159 Tb	2	2507079	0.83	2717503	92.3	70 - 150	
165 Ho	1	1334254	0.97	1369251	97.4	70 - 150	
165 Ho	2	2519391	1.70	2704826	93.1	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\026SMPL.D\026SMPL.D#
Date Acquired: Mar 1 2018 01:15 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: AD02671-001
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1209
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Mar 01 2018 11:28 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.76	0.76	ppb	4.97	3597	2700	
23 Na	45	1	46,170.00	46170.00	ppb	0.88	55448928	225000	
24 Mg	45	1	7,253.00	7253.00	ppb	1.28	4985141	225000	
27 Al	45	1	22,650.00	22650.00	ppb	1.75	9143145	225000	
39 K	45	1	11,550.00	11550.00	ppb	1.77	7880824	225000	
44 Ca	45	1	21,350.00	21350.00	ppb	1.04	734682	225000	
51 V	45	1	12.89	12.89	ppb	2.09	61222	2250	
52 Cr	45	1	22.46	22.46	ppb	1.73	122015	2250	
55 Mn	45	1	373.00	373.00	ppb	0.79	1608299	2250	
56 Fe	45	1	21,690.00	21690.00	ppb	0.15	112700000	180000	
59 Co	45	1	2.62	2.62	ppb	0.30	22722	2250	
60 Ni	45	1	4.70	4.70	ppb	1.29	10047	2250	
65 Cu	45	1	31.17	31.17	ppb	1.51	83079	2700	
66 Zn	45	1	14.47	14.47	ppb	3.21	14230	2700	
75 As	115	1	24.35	24.35	ppb	0.39	12506	2700	
78 Se	115	1	4.66	4.66	ppb	5.16	395	2700	
83 Kr	115	2	----	--------	ppb	--------	408	2700	
95 Mo	115	2	0.50	0.50	ppb	3.48	2268	2700	
107 Ag	115	2	0.04	0.04	ppb	10.73	704	900	
111 Cd	115	2	0.40	0.40	ppb	4.15	956	2700	
121 Sb	115	2	0.01	0.01	ppb	166.60	2742	2700	
137 Ba	159	2	34.96	34.96	ppb	1.36	125654	2700	
205 Tl	165	2	0.14	0.14	ppb	0.62	5080	2700	
206 (Pb)	165	2	21.71	21.71	ppb	0.70	227084	2700	
207 (Pb)	165	2	23.50	23.50	ppb	0.67	191269	2700	
208 Pb	165	2	21.84	21.84	ppb	0.91	889514	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	135361	0.67	129819	104.3	70 - 150	
45 Sc	2	1350285	1.48	1340091	100.8	70 - 150	
115 In	1	509946	1.02	549428	92.8	70 - 150	
115 In	2	1569824	1.19	1801474	87.1	70 - 150	
159 Tb	1	1377122	0.92	1375156	100.1	70 - 150	
159 Tb	2	2615395	1.64	2717503	96.2	70 - 150	
165 Ho	1	1365111	0.83	1369251	99.7	70 - 150	
165 Ho	2	2616971	1.31	2704826	96.8	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\027SMPL.D\027SMPL.D#
Date Acquired: Mar 1 2018 01:20 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: AD02671-002
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1210
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Mar 01 2018 11:28 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.04	0.04	ppb	21.26	194	2700	
23 Na	45	1	37,820.00	37820.00	ppb	1.53	41703380	225000	
24 Mg	45	1	1,807.00	1807.00	ppb	0.47	1141325	225000	
27 Al	45	1	964.80	964.80	ppb	0.42	358093	225000	
39 K	45	1	2,262.00	2262.00	ppb	2.47	1461947	225000	
44 Ca	45	1	11,120.00	11120.00	ppb	2.01	351780	225000	
51 V	45	1	2.28	2.28	ppb	2.73	10020	2250	
52 Cr	45	1	1.21	1.21	ppb	3.13	6466	2250	
55 Mn	45	1	98.17	98.17	ppb	1.13	389888	2250	
56 Fe	45	1	3,672.00	3672.00	ppb	1.92	17527260	180000	
59 Co	45	1	0.45	0.45	ppb	3.95	3776	2250	
60 Ni	45	1	0.87	0.87	ppb	5.13	1941	2250	
65 Cu	45	1	2.75	2.75	ppb	4.02	7555	2700	
66 Zn	45	1	9.77	9.77	ppb	2.73	9186	2700	
75 As	115	1	1.16	1.16	ppb	2.04	627	2700	
78 Se	115	1	0.80	0.80	ppb	23.59	138	2700	
83 Kr	115	2	----	--------	ppb	--------	252	2700	
95 Mo	115	2	0.45	0.45	ppb	6.72	2031	2700	
107 Ag	115	2	0.00	0.00	ppb	31.27	216	900	
111 Cd	115	2	0.10	0.10	ppb	8.49	259	2700	
121 Sb	115	2	-0.06	-0.06	ppb	10.47	2187	2700	
137 Ba	159	2	20.41	20.41	ppb	1.38	70024	2700	
205 Tl	165	2	0.01	0.01	ppb	2.52	1135	2700	
206 (Pb)	165	2	0.56	0.56	ppb	2.92	7637	2700	
207 (Pb)	165	2	0.61	0.61	ppb	2.93	6474	2700	
208 Pb	165	2	0.56	0.56	ppb	1.29	30235	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	124261	3.27	129819	95.7	70 - 150	
45 Sc	2	1218411	1.20	1340091	90.9	70 - 150	
115 In	1	512835	2.34	549428	93.3	70 - 150	
115 In	2	1556099	1.31	1801474	86.4	70 - 150	
159 Tb	1	1334288	1.80	1375156	97.0	70 - 150	
159 Tb	2	2494837	0.37	2717503	91.8	70 - 150	
165 Ho	1	1333965	1.54	1369251	97.4	70 - 150	
165 Ho	2	2519022	0.58	2704826	93.1	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\028SMPL.D\028SMPL.D#
Date Acquired: Mar 1 2018 01:26 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: AD02671-004
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1301
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Mar 01 2018 11:28 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.01	0.01	ppb	35.37	73	2700	
23 Na	45	1	105,200.00	105200.00	ppb	1.65	118509000	225000	
24 Mg	45	1	4,513.00	4513.00	ppb	1.11	2913371	225000	
27 Al	45	1	36.30	36.30	ppb	1.81	14415	225000	
39 K	45	1	5,749.00	5749.00	ppb	1.57	3711441	225000	
44 Ca	45	1	26,880.00	26880.00	ppb	1.48	868572	225000	
51 V	45	1	0.82	0.82	ppb	1.10	3765	2250	
52 Cr	45	1	0.40	0.40	ppb	0.66	2496	2250	
55 Mn	45	1	846.10	846.10	ppb	1.98	3422871	2250	
56 Fe	45	1	19,720.00	19720.00	ppb	2.31	96205712	180000	
59 Co	45	1	2.21	2.21	ppb	1.52	18048	2250	
60 Ni	45	1	0.53	0.53	ppb	4.16	1322	2250	
65 Cu	45	1	0.48	0.48	ppb	7.29	2131	2700	
66 Zn	45	1	1.41	1.41	ppb	5.00	2360	2700	
75 As	115	1	5.33	5.33	ppb	1.13	2709	2700	
78 Se	115	1	0.98	0.98	ppb	16.83	147	2700	
83 Kr	115	2	----	--------	ppb	--------	218	2700	
95 Mo	115	2	0.10	0.10	ppb	4.57	553	2700	
107 Ag	115	2	0.00	0.00	ppb	154.42	189	900	
111 Cd	115	2	0.07	0.07	ppb	5.75	170	2700	
121 Sb	115	2	-0.15	-0.15	ppb	15.11	1436	2700	
137 Ba	159	2	66.77	66.77	ppb	1.28	224769	2700	
205 Tl	165	2	0.01	0.01	ppb	6.20	1109	2700	
206 (Pb)	165	2	1.81	1.81	ppb	2.15	19559	2700	
207 (Pb)	165	2	1.92	1.92	ppb	1.57	16191	2700	
208 Pb	165	2	1.81	1.81	ppb	0.87	76278	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	127107	1.19	129819	97.9	70 - 150	
45 Sc	2	1214204	1.65	1340091	90.6	70 - 150	
115 In	1	500888	1.27	549428	91.2	70 - 150	
115 In	2	1510315	1.13	1801474	83.8	70 - 150	
159 Tb	1	1310360	0.70	1375156	95.3	70 - 150	
159 Tb	2	2451039	0.42	2717503	90.2	70 - 150	
165 Ho	1	1296420	1.24	1369251	94.7	70 - 150	
165 Ho	2	2450454	1.71	2704826	90.6	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\029SMPL.D\029SMPL.D#
Date Acquired: Mar 1 2018 01:32 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: AD02671-005
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1302
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Mar 01 2018 11:28 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.02	0.02	ppb	29.63	124	2700	
23 Na	45	1	63,180.00	63180.00	ppb	0.39	69704064	225000	
24 Mg	45	1	1,788.00	1788.00	ppb	1.65	1130740	225000	
27 Al	45	1	126.60	126.60	ppb	0.79	47587	225000	
39 K	45	1	5,845.00	5845.00	ppb	0.89	3692566	225000	
44 Ca	45	1	16,930.00	16930.00	ppb	1.07	535671	225000	
51 V	45	1	2.22	2.22	ppb	1.33	9797	2250	
52 Cr	45	1	0.61	0.61	ppb	1.79	3505	2250	
55 Mn	45	1	142.10	142.10	ppb	0.41	564447	2250	
56 Fe	45	1	10,490.00	10490.00	ppb	0.54	50117000	180000	
59 Co	45	1	0.41	0.41	ppb	1.72	3468	2250	
60 Ni	45	1	0.24	0.24	ppb	9.16	749	2250	
65 Cu	45	1	1.02	1.02	ppb	4.00	3404	2700	
66 Zn	45	1	3.59	3.59	ppb	2.07	4106	2700	
75 As	115	1	15.97	15.97	ppb	1.06	8217	2700	
78 Se	115	1	0.70	0.70	ppb	17.63	131	2700	
83 Kr	115	2	----	--------	ppb	--------	230	2700	
95 Mo	115	2	0.56	0.56	ppb	9.64	2463	2700	
107 Ag	115	2	0.00	0.00	ppb	49.79	214	900	
111 Cd	115	2	0.03	0.03	ppb	8.17	92	2700	
121 Sb	115	2	-0.09	-0.09	ppb	7.80	1940	2700	
137 Ba	159	2	33.52	33.52	ppb	1.57	115403	2700	
205 Tl	165	2	0.01	0.01	ppb	30.51	1156	2700	
206 (Pb)	165	2	0.49	0.49	ppb	4.34	6957	2700	
207 (Pb)	165	2	0.54	0.54	ppb	2.31	5913	2700	
208 Pb	165	2	0.50	0.50	ppb	3.76	27637	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	124400	0.51	129819	95.8	70 - 150	
45 Sc	2	1199055	0.87	1340091	89.5	70 - 150	
115 In	1	510308	1.46	549428	92.9	70 - 150	
115 In	2	1530963	2.34	1801474	85.0	70 - 150	
159 Tb	1	1332231	1.21	1375156	96.9	70 - 150	
159 Tb	2	2505739	1.28	2717503	92.2	70 - 150	
165 Ho	1	1327403	1.46	1369251	96.9	70 - 150	
165 Ho	2	2494008	1.51	2704826	92.2	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\030SMPL.D\030SMPL.D#
Date Acquired: Mar 1 2018 01:38 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: AD02799-002
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 1303
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Mar 01 2018 11:28 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.02	0.02	ppb	30.80	124	2700	
23 Na	45	1	564,300.00	564300.00	ppb	2.02	596803070	225000	>LDR
24 Mg	45	1	63,730.00	63730.00	ppb	1.68	38628928	225000	
27 Al	45	1	394.40	394.40	ppb	1.99	141037	225000	
39 K	45	1	14,680.00	14680.00	ppb	1.46	8822275	225000	
44 Ca	45	1	85,180.00	85180.00	ppb	1.75	2583698	225000	
51 V	45	1	1.49	1.49	ppb	2.79	6323	2250	
52 Cr	45	1	1.53	1.53	ppb	1.61	7721	2250	
55 Mn	45	1	127.30	127.30	ppb	0.68	485452	2250	
56 Fe	45	1	1,743.00	1743.00	ppb	1.51	8006260	180000	
59 Co	45	1	0.58	0.58	ppb	2.01	4644	2250	
60 Ni	45	1	3.26	3.26	ppb	2.45	6228	2250	
65 Cu	45	1	4.71	4.71	ppb	2.07	11818	2700	
66 Zn	45	1	30.45	30.45	ppb	0.75	25200	2700	
75 As	115	1	0.61	0.61	ppb	2.77	303	2700	
78 Se	115	1	0.89	0.89	ppb	27.69	128	2700	
83 Kr	115	2	----	--------	ppb	--------	270	2700	
95 Mo	115	2	0.93	0.93	ppb	4.03	3738	2700	
107 Ag	115	2	0.01	0.01	ppb	1.42	243	900	
111 Cd	115	2	0.13	0.13	ppb	6.99	292	2700	
121 Sb	115	2	-0.04	-0.04	ppb	10.33	2195	2700	
137 Ba	159	2	139.80	139.80	ppb	1.29	448454	2700	
205 Tl	165	2	0.00	0.00	ppb	50.27	680	2700	
206 (Pb)	165	2	3.09	3.09	ppb	1.83	30543	2700	
207 (Pb)	165	2	3.50	3.50	ppb	1.35	26794	2700	
208 Pb	165	2	3.20	3.20	ppb	1.71	122903	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	119387	1.11	129819	92.0	70 - 150	
45 Sc	2	1218236	1.39	1340091	90.9	70 - 150	
115 In	1	455177	1.91	549428	82.8	70 - 150	
115 In	2	1434905	1.90	1801474	79.7	70 - 150	
159 Tb	1	1205445	1.53	1375156	87.7	70 - 150	
159 Tb	2	2335817	0.80	2717503	86.0	70 - 150	
165 Ho	1	1208747	1.17	1369251	88.3	70 - 150	
165 Ho	2	2335978	1.55	2704826	86.4	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

1 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

Sample QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\031SMPL.D\031SMPL.D#
Date Acquired: Mar 1 2018 01:44 pm
Acq. Method: 6020AQ.M
Operator: GK
Sample Name: RINSE
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3101
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal. Update: Mar 01 2018 11:28 am
Sample Type: Sample
Dilution Factor: 1.00
Autodil Factor: Undiluted
Final Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Corr Conc	Raw Conc	Units	RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.17	0.17	ppb	4.00	835	2700	
23 Na	45	1	599.00	599.00	ppb	7.17	836938	225000	
24 Mg	45	1	88.13	88.13	ppb	7.97	63623	225000	
27 Al	45	1	25.68	25.68	ppb	1.35	11276	225000	
39 K	45	1	34.76	34.76	ppb	5.77	85036	225000	
44 Ca	45	1	161.40	161.40	ppb	5.28	6440	225000	
51 V	45	1	0.20	0.20	ppb	4.08	1107	2250	
52 Cr	45	1	0.19	0.19	ppb	1.40	1546	2250	
55 Mn	45	1	0.94	0.94	ppb	1.01	6198	2250	
56 Fe	45	1	64.62	64.62	ppb	0.58	365142	180000	
59 Co	45	1	0.16	0.16	ppb	3.65	1676	2250	
60 Ni	45	1	0.13	0.13	ppb	12.74	598	2250	
65 Cu	45	1	0.20	0.20	ppb	16.95	1571	2700	
66 Zn	45	1	2.59	2.59	ppb	0.80	3639	2700	
75 As	115	1	0.16	0.16	ppb	4.67	129	2700	
78 Se	115	1	0.49	0.49	ppb	19.79	138	2700	
83 Kr	115	2	----	--------	ppb	--------	247	2700	
95 Mo	115	2	0.36	0.36	ppb	6.13	1941	2700	
107 Ag	115	2	0.07	0.07	ppb	2.12	1176	900	
111 Cd	115	2	0.17	0.17	ppb	1.35	487	2700	
121 Sb	115	2	-0.19	-0.19	ppb	2.48	1425	2700	
137 Ba	159	2	0.38	0.38	ppb	8.29	1647	2700	
205 Tl	165	2	0.13	0.13	ppb	0.45	5089	2700	
206 (Pb)	165	2	0.16	0.16	ppb	5.67	4126	2700	
207 (Pb)	165	2	0.16	0.16	ppb	10.27	3393	2700	
208 Pb	165	2	0.17	0.17	ppb	3.31	16476	2700	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	137895	0.14	129819	106.2	70 - 150	
45 Sc	2	1353128	0.34	1340091	101.0	70 - 150	
115 In	1	601450	1.40	549428	109.5	70 - 150	
115 In	2	1846494	2.53	1801474	102.5	70 - 150	
159 Tb	1	1472817	0.44	1375156	107.1	70 - 150	
159 Tb	2	2836681	1.51	2717503	104.4	70 - 150	
165 Ho	1	1459733	0.98	1369251	106.6	70 - 150	
165 Ho	2	2805697	1.42	2704826	103.7	70 - 150	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\nogas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\032_CCV.D\032_CCV.D#
Date Acquired: Mar 1 2018 01:50 pm
Operator: GK
Sample Name: CCV V-274298
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3103
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: Mar 01 2018 11:28 am
Sample Type: 6-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	51.41	ppb	0.77	241309	50	102.8	90 - 110	
23 Na	45	1	5134.00	ppb	1.57	6436000	5000	102.7	90 - 110	
24 Mg	45	1	5041.00	ppb	1.14	3564325	5000	100.8	90 - 110	
27 Al	45	1	1491.00	ppb	1.60	619639	1500	99.4	90 - 110	
39 K	45	1	5140.00	ppb	2.05	3640770	5000	102.8	90 - 110	
44 Ca	45	1	5111.00	ppb	1.64	181500	5000	102.2	90 - 110	
51 V	45	1	49.97	ppb	1.52	243767	50	99.9	90 - 110	
52 Cr	45	1	49.79	ppb	1.54	277555	50	99.6	90 - 110	
55 Mn	45	1	50.33	ppb	0.59	224985	50	100.7	90 - 110	
56 Fe	45	1	5060.00	ppb	1.34	27057190	5000	101.2	90 - 110	
59 Co	45	1	48.76	ppb	2.00	430674	50	97.5	90 - 110	
60 Ni	45	1	50.57	ppb	1.47	107922	50	101.1	90 - 110	
65 Cu	45	1	50.85	ppb	1.25	138698	50	101.7	90 - 110	
66 Zn	45	1	50.88	ppb	1.02	48242	50	101.8	90 - 110	
75 As	115	1	49.26	ppb	1.24	28245	50	98.5	90 - 110	
78 Se	115	1	252.70	ppb	1.65	18951	250	101.1	90 - 110	
83 Kr	115	2	--------	ppb	--------	250	50	#VALUE!	##### - #####	
95 Mo	115	2	49.63	ppb	1.57	234747	50	99.3	90 - 110	
107 Ag	115	2	49.02	ppb	1.24	677201	50	98.0	90 - 110	
111 Cd	115	2	50.56	ppb	0.46	132331	50	101.1	90 - 110	
121 Sb	115	2	50.09	ppb	1.36	433750	50	100.2	90 - 110	
137 Ba	159	2	49.85	ppb	0.51	187113	50	99.7	90 - 110	
205 Tl	165	2	51.52	ppb	0.70	1615387	50	103.0	90 - 110	
206 (Pb)	165	2	46.52	ppb	1.23	500379	50	93.0	90 - 110	
207 (Pb)	165	2	50.89	ppb	2.54	425854	50	101.8	90 - 110	
208 Pb	165	2	49.95	ppb	1.90	2091223	50	99.9	90 - 110	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	139211	0.63	129819	107.2	80 - 120	
45 Sc	2	1353043	1.12	1340091	101.0	80 - 120	
115 In	1	569908	1.33	549428	103.7	80 - 120	
115 In	2	1739814	1.83	1801474	96.6	80 - 120	
159 Tb	1	1400922	0.73	1375156	101.9	80 - 120	
159 Tb	2	2732527	1.28	2717503	100.6	80 - 120	
165 Ho	1	1380566	0.71	1369251	100.8	80 - 120	
165 Ho	2	2705103	0.77	2704826	100.0	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Verification (CCV) QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\033_CCV.D\033_CCV.D#
Date Acquired: Mar 1 2018 01:55 pm
Operator: GK
Sample Name: LLCCV V-274300
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3105
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: Mar 01 2018 11:28 am
Sample Type: LL-CCV
Total Dil Factor: 1.00

QC Summary:
Analytes: Fail
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	Expected	Rec(%)	QC Range(%)	Flag
9 Be	45	2	0.50	ppb	6.85	2365	1	101.0	70 - 130	
23 Na	45	1	326.30	ppb	4.00	511896	250	130.5	70 - 130	FAIL
24 Mg	45	1	274.00	ppb	2.39	196855	250	109.6	70 - 130	
27 Al	45	1	102.20	ppb	2.87	43438	100	102.2	70 - 130	
39 K	45	1	244.50	ppb	3.52	233438	250	97.8	70 - 130	
44 Ca	45	1	270.10	ppb	3.53	10411	250	108.0	70 - 130	
51 V	45	1	0.96	ppb	1.08	4858	1	96.2	70 - 130	
52 Cr	45	1	0.98	ppb	0.96	5997	1	97.8	70 - 130	
55 Mn	45	1	2.96	ppb	3.01	15321	3	98.7	70 - 130	
56 Fe	45	1	165.40	ppb	2.98	913111	150	110.3	70 - 130	
59 Co	45	1	0.93	ppb	2.91	8566	1	93.3	70 - 130	
60 Ni	45	1	1.44	ppb	2.00	3408	2	95.8	70 - 130	
65 Cu	45	1	4.82	ppb	3.20	14190	5	96.5	70 - 130	
66 Zn	45	1	9.90	ppb	0.29	10488	10	99.0	70 - 130	
75 As	115	1	0.93	ppb	4.55	592	1	92.9	70 - 130	
78 Se	115	1	4.94	ppb	2.08	487	5	98.7	70 - 130	
83 Kr	115	2	--------	ppb	--------	268	1	#VALUE!	##### - #####	
95 Mo	115	2	1.00	ppb	4.61	4971	1	99.8	70 - 130	
107 Ag	115	2	0.49	ppb	1.83	7081	1	97.6	70 - 130	
111 Cd	115	2	1.01	ppb	1.82	2713	1	100.5	70 - 130	
121 Sb	115	2	1.12	ppb	1.47	12896	2	74.7	70 - 130	
137 Ba	159	2	2.45	ppb	3.87	9342	3	98.2	70 - 130	
205 Tl	165	2	0.89	ppb	2.39	28969	1	89.1	70 - 130	
206 (Pb)	165	2	1.32	ppb	2.19	16487	2	88.1	70 - 130	
207 (Pb)	165	2	1.42	ppb	2.63	13771	2	94.3	70 - 130	
208 Pb	165	2	1.34	ppb	1.05	65147	2	89.3	70 - 130	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	140153	2.71	129819	108.0	80 - 120	
45 Sc	2	1326206	1.89	1340091	99.0	80 - 120	
115 In	1	599990	3.69	549428	109.2	80 - 120	
115 In	2	1779058	1.62	1801474	98.8	80 - 120	
159 Tb	1	1443329	2.47	1375156	105.0	80 - 120	
159 Tb	2	2727758	1.29	2717503	100.4	80 - 120	
165 Ho	1	1428056	3.30	1369251	104.3	80 - 120	
165 Ho	2	2720505	1.66	2704826	100.6	80 - 120	

Tune File# 1 c:\icpchem\1\7500\he.u
Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

1 :Element Failures 0 :Max. Number of Failures Allowed
0 :ISTD Failures 0 :Max. Number of ISTD Failures Allowed

Continuing Calibration Blank (CCB) QC Report

Data File: C:\ICPCHEM\1\DATA\A030118A.b\034_CCB.D\034_CCB.D#
Date Acquired: Mar 1 2018 02:01 pm
Operator: GK
Sample Name: CCB V-274295
Misc Info: MS_7500 6020 AQUEOUS
Vial Number: 3102
Current Method: C:\ICPCHEM\1\METHODS\6020AQ.M
Calibration File: C:\ICPCHEM\1\CALIB\6020AQ.C
Last Cal Update: Mar 01 2018 11:28 am
Sample Type: 6-CCB
Total Dil Factor: 1.00

QC Summary:
Analytes: Pass
ISTD: Pass

QC Elements

Element	IS Ref	Tune	Conc.		RSD(%)	CPS	High Limit	Flag
9 Be	45	2	0.015	ppb	14.30	112	0.50	
23 Na	45	1	44.550	ppb	16.03	156955	250.00	
24 Mg	45	1	9.557	ppb	9.70	8468	250.00	
27 Al	45	1	1.549	ppb	12.89	1329	100.00	
39 K	45	1	-16.290	ppb	4.04	48920	250.00	
44 Ca	45	1	4.624	ppb	54.65	931	250.00	
51 V	45	1	0.010	ppb	8.88	178	1.00	
52 Cr	45	1	0.006	ppb	57.13	534	1.00	
55 Mn	45	1	-0.153	ppb	11.04	1397	3.00	
56 Fe	45	1	6.166	ppb	9.07	54800	150.00	
59 Co	45	1	-0.004	ppb	27.53	230	1.00	
60 Ni	45	1	-0.088	ppb	10.07	138	1.50	
65 Cu	45	1	-0.206	ppb	0.54	467	5.00	
66 Zn	45	1	-0.695	ppb	2.54	623	10.00	
75 As	115	1	0.009	ppb	33.38	37	1.00	
78 Se	115	1	0.301	ppb	56.57	117	5.00	
83 Kr	115	2	--------	ppb	--------	238	1.00	
95 Mo	115	2	0.014	ppb	25.55	213	1.00	
107 Ag	115	2	0.002	ppb	51.91	216	0.50	
111 Cd	115	2	0.007	ppb	8.48	43	1.00	
121 Sb	115	2	-0.310	ppb	0.33	314	1.50	
137 Ba	159	2	0.031	ppb	20.27	269	2.50	
205 Tl	165	2	-0.003	ppb	47.16	827	1.00	
206 (Pb)	165	2	-0.031	ppb	10.77	1930	1.50	
207 (Pb)	165	2	-0.043	ppb	8.63	1559	1.50	
208 Pb	165	2	-0.030	ppb	28.58	7751	1.50	

ISTD Elements

Element	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
45 Sc	1	135408	0.09	129819	104.3	80 - 120	
45 Sc	2	1342388	0.99	1340091	100.2	80 - 120	
115 In	1	576125	1.78	549428	104.9	80 - 120	
115 In	2	1774152	1.17	1801474	98.5	80 - 120	
159 Tb	1	1410175	0.31	1375156	102.5	80 - 120	
159 Tb	2	2743771	0.74	2717503	101.0	80 - 120	
165 Ho	1	1402647	0.63	1369251	102.4	80 - 120	
165 Ho	2	2716675	0.28	2704826	100.4	80 - 120	

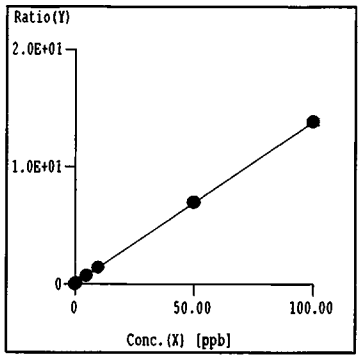
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Tune File# 2 c:\icpchem\1\7500\noqas.u
Tune File# 3 C:\ICPCHEM\1\7500\

ISTD Ref File : C:\ICPCHEM\1\DATA\A030118A.b\002CALB.D\002CALB.D#

0 :Element Failures
0 :ISTD Failures
0 :Max. Number of Failures Allowed
0 :Max. Number of ISTD Failures Allowed

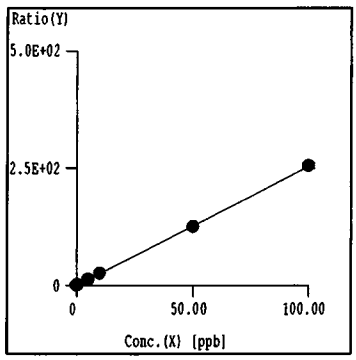
=== Graph Detail ===

Step Mass Element ISTD Unit
(2) 9 Be 45 ppb



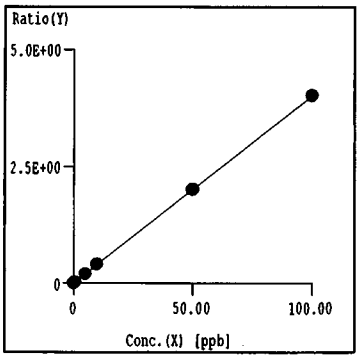
Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 1.387E-001*X +1.325E-003
X = 7.208E+000*Y -9.553E-003
DL = 6.017E-03 ppb
BEC = 9.553E-03 ppb

Step Mass Element ISTD Unit
(1) 59 Co 45 ppb



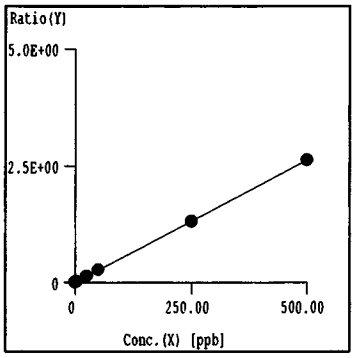
Curve Fit: Y=aX+[blank]
r = 0.9999
Y = 2.536E+000*X +7.924E-002
X = 3.943E-001*Y -3.124E-002
DL = 5.684E-03 ppb
BEC = 3.124E-02 ppb

Step Mass Element ISTD Unit
(1) 75 As 115 ppb



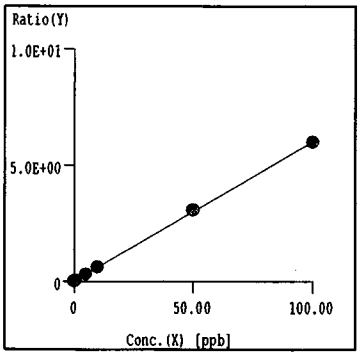
Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 4.020E-002*X +2.188E-003
X = 2.487E+001*Y -5.443E-002
DL = 2.217E-02 ppb
BEC = 5.443E-02 ppb

Step Mass Element ISTD Unit
(1) 78 Se 115 ppb



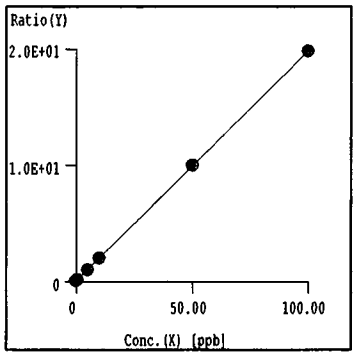
Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 5.238E-003*X +6.582E-003
X = 1.909E+002*Y -1.257E+000
DL = 1.680E-01 ppb
BEC = 1.257 ppb

Step Mass Element ISTD Unit
(2) 111 Cd 115 ppb



Curve Fit: Y=aX+[blank]
r = 0.9999
Y = 6.016E-002*X +5.491E-004
X = 1.662E+001*Y -9.128E-003
DL = 6.138E-03 ppb
BEC = 9.128E-03 ppb

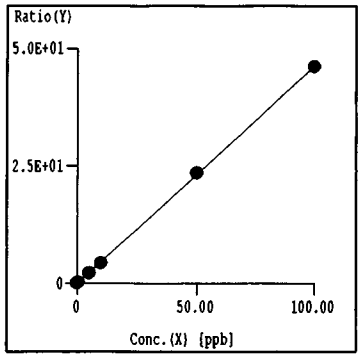
Step Mass Element ISTD Unit
(2) 121 Sb 115 ppb



Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 1.978E-001*X +6.831E-002
X = 5.057E+000*Y -3.454E-001
DL = 3.427E-02 ppb
BEC = 3.454E-01 ppb

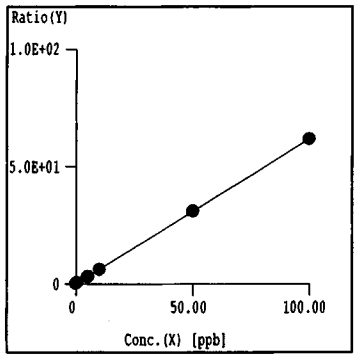
=== Graph Detail ===

Step	Mass	Element	ISTD	Unit
(2)	205	Tl	165	ppb



Curve Fit: Y=aX+[blank]
r = 0.9999
Y = 4.633E-001*X +1.338E-002
X = 2.158E+000*Y -2.888E-002
DL = 7.783E-03 ppb
BEC = 2.888E-02 ppb

Step	Mass	Element	ISTD	Unit
(2)	208	Pb	165	ppb



Curve Fit: Y=aX+[blank]
r = 1.0000
Y = 6.163E-001*X +1.328E-001
X = 1.622E+000*Y -2.155E-001
DL = 2.434E-02 ppb
BEC = 2.155E-01 ppb

HGCV3 MDL/RL SUMMARY

Element: *Mercury*
Instrument: *PE FIMS 100*
Technique: *CV*

Instrument ID: *HgCV3*
Analyst *Carmela Aliano*

200 Series	METHOD	MDL (ppb)	Completed	RL (ppb)
H_2O	245.1	0.0744	12/26/2017	0.20
SW846				
H_2O	7470A	0.0916	12/26/2017	0.50
SOIL	7471 B	0.1160 (0.0193 mg/kg)	12/26/2017	0.50 (0.0833 mg/kg)

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-273310

Prepared By: Aliano, Carmela
Description: 5% Potassium Permanganate WARNIN
Prep Date: 2/10/2018
Expiration Date: 6/8/2018
Department: Metals
BatchNumber:
Concentration: reagent
Final Volume: 20 l
ApprovedBy: shiamala
ApproveDate: 02/13/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
10689	Potassium Permangante DANGER	1000 g	neat neat	

Veritech Lot Number: V-273311

Prepared By: Aliano, Carmela
Description: 5% Potassium Persulfate WARNING
Prep Date: 2/10/2018
Expiration Date: 6/8/2018
Department: Metals
BatchNumber:
Concentration: reagent
Final Volume: 10 l
ApprovedBy: shiamala
ApproveDate: 02/13/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
10678	Potassium Persulfate DANGER	500 g	NEAT neat	

Veritech Lot Number: V-273312

Prepared By: Aliano, Carmela
Description: Hydroxylamine Hydrochloride WARNIN
Prep Date: 2/10/2018
Expiration Date: 6/8/2018
Department: Metals
BatchNumber:
Concentration: reagent
Final Volume: 10 l
ApprovedBy: shiamala
ApproveDate: 02/13/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			
11225	sodium chloride	1200 g	neat neat	
10390	HYDROXYLAMINE HYDROCHLORIDE	1200 g	NEAT neat	

Veritech Lot Number: V-274446

Prepared By: Olufemi
Description: 3% HCL WARNING
Prep Date: 2/27/2018
Expiration Date: 5/26/2018
Department: WetChem
BatchNumber:
Concentration: 3 %
Final Volume: 20 l
ApprovedBy: shiamala
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11487	Hydrochloric Acid	600 ml	neat neat	3%
11248	DI H2O			

Veritech Lot Number: V-274447

Prepared By: Olufemi
Description: SnCl2 "WARNING:"
Prep Date: 2/27/2018
Expiration Date: 2/27/2018
Department: Metals
BatchNumber:
Concentration: reagent I
Final Volume: 2 l
ApprovedBy: shiamala
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274446	3% HCL WARNING	2000 ml	3 %	
11342	Stannous Chloride	26.4 g	neat neat	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-274451

Prepared By: Adeola, Bolaji
Description: Hg Intermediate Standard -WARNING
Prep Date: 2/27/2018
Expiration Date: 2/27/2018
Department: Metals
BatchNumber: B-24615
Concentration: .25 ppm
Final Volume: 500 ml
ApprovedBy: shiamala
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11349	Hg MERCURY	.125 ml	1000 ug/ml	
11137	Nitric Acid	12.5 ml	neat neat	
11248	DI H2O			

Veritech Lot Number: V-274452

Prepared By: Adeola, Bolaji
Description: Hg intermediate Control -WARNING
Prep Date: 2/27/2018
Expiration Date: 2/27/2018
Department: Metals
BatchNumber: B-24615
Concentration: 1.0 ppm
Final Volume: 100 ml
ApprovedBy: shiamala
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11343	Mercury Hg	.1 ml	1000 ug/ml	
11137	Nitric Acid	2.5 ml	neat neat	
11248	DI H2O			

Veritech Lot Number: V-274453

Prepared By: Adeola, Bolaji
Description: Hg AQ ICV 20 ppb
Prep Date: 2/27/2018
Expiration Date: 2/27/2018
Department: Metals
BatchNumber: B-24616
Concentration: 20 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274452	Hg intermediate Control -WARNING	.5 ml	1.0 ppm	
11248	DI H2O			

Veritech Lot Number: V-274454

Prepared By: Adeola, Bolaji
Description: Hg AQ CCV 10 ppb
Prep Date: 2/27/2018
Expiration Date: 2/27/2018
Department: Metals
BatchNumber: B-24616
Concentration: 10 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274452	Hg intermediate Control -WARNING	.25 ml	1.0 ppm	
11248	DI H2O			

Veritech Lot Number: V-274455

Prepared By: Adeola, Bolaji
Description: Hg AQ standard blk
Prep Date: 2/27/2018
Expiration Date: 2/27/2018
Department: Metals
BatchNumber: B-24616
Concentration: 0 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11248	DI H2O			

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-274456

Prepared By: Adeola, Bolaji
Description: Hg AQ standard .2 ppb
Prep Date: 2/27/2018
Expiration Date: 2/27/2018
Department: Metals
BatchNumber: B-24616
Concentration: .2 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274451	Hg Intermediate Standard -WARNING	.02 ml	.25 ppm	
11248	DI H2O			

Veritech Lot Number: V-274457

Prepared By: Adeola, Bolaji
Description: Hg AQ standard .5 ppb
Prep Date: 2/27/2018
Expiration Date: 2/27/2018
Department: Metals
BatchNumber: B-24616
Concentration: .5 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274451	Hg Intermediate Standard -WARNING	.05 ml	.25 ppm	
11248	DI H2O			

Veritech Lot Number: V-274458

Prepared By: Adeola, Bolaji
Description: Hg AQ standard 1 ppb
Prep Date: 2/27/2018
Expiration Date: 2/27/2018
Department: Metals
BatchNumber: B-24616
Concentration: 1 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274451	Hg Intermediate Standard -WARNING	.1 ml	.25 ppm	
11248	DI H2O			

Veritech Lot Number: V-274459

Prepared By: Adeola, Bolaji
Description: Hg AQ standard 2 ppb
Prep Date: 2/27/2018
Expiration Date: 2/27/2018
Department: Metals
BatchNumber: B-24616
Concentration: 2 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274451	Hg Intermediate Standard -WARNING	.2 ml	.25 ppm	
11248	DI H2O			

Veritech Lot Number: V-274460

Prepared By: Adeola, Bolaji
Description: Hg AQ standard 5 ppb
Prep Date: 2/27/2018
Expiration Date: 2/27/2018
Department: Metals
BatchNumber: B-24616
Concentration: 5 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274451	Hg Intermediate Standard -WARNING	.5 ml	.25 ppm	
11248	DI H2O			

Veritech Lot Number: V-274461

Prepared By: Adeola, Bolaji
Description: Hg AQ standard 10 ppb
Prep Date: 2/27/2018
Expiration Date: 2/27/2018
Department: Metals
BatchNumber: B-24616
Concentration: 10 ppb
Final Volume: 25 ml
ApprovedBy: shiamala
ApproveDate: 02/27/18
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274451	Hg Intermediate Standard -WARNING	1 ml	.25 ppm	
11248	DI H2O			

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-274462

Prepared By:	Adeola, Bolaji	Department:	Metals	ApprovedBy:	shiamala
Description:	Hg AQ standard 25 ppb	BatchNumber:	B-24616	ApproveDate:	02/27/18
Prep Date:	2/27/2018	Concentration:	25 ppb	Checked:	Yes
Expiration Date:	2/27/2018	Final Volume:	25 ml		

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274451	Hg Intermediate Standard -WARNING	2.5 ml	.25 ppm	
11248	DI H2O			

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 10390

Description: HYDROXYLAMINE HYDROCHLORIDE

ApprovedBy: shiamala
ApproveDate: 10/06/16
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
LAB CHEM	LC-2752725	150608-1A	08/22/16	08/22/26	Aliano, Carmela	1	2.5l	NEAT	NEAT

Veritech Control/Receipt Number: 10678

Description: Potassium Persulfate DANGER

ApprovedBy: shiamala
ApproveDate: 03/06/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
LAB SALES	LC-4445NG	160103-C	01/05/17	01/05/27	Aliano, Carmela	1	2.5K	NEAT	NEAT

Veritech Control/Receipt Number: 10689

Description: Potassium Permangante DANGER

ApprovedBy: shiamala
ApproveDate: 03/06/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Lab Sales	LC-T10208	161216-2C	01/09/17	01/09/27	Aliano, Carmela	1	2.5 kg	neat	neat

Veritech Control/Receipt Number: 11137

Description: Nitric Acid

ApprovedBy: sean
ApproveDate: 09/18/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9598-34	177935	08/29/17	06/27/22	Lopez, Jose	16	2.5L	neat	neat

Veritech Control/Receipt Number: 11225

Description: sodium chloride

ApprovedBy: jean
ApproveDate: 10/24/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
EMD	SX0420-5	16F245208	10/12/17	10/12/22	Burwell, John	2	12 kg	neat	neat

Veritech Control/Receipt Number: 11248

Description: DI H2O

ApprovedBy: sean
ApproveDate: 10/26/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
siemanns	1	1	10/26/17	07/25/18	Berls, Sean R.	1			

Veritech Control/Receipt Number: 11342

Description: Stannous Chloride

ApprovedBy: shiamala
ApproveDate: 01/31/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Lab Sales	LC-P33805	170621-C	12/28/17	10/04/22	Aliano, Carmela	1	3kg	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11343

Description: Mercury Hg

ApprovedBy: shiamala
ApproveDate: 01/31/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Perkin Elmer	N9300174	22-193HGY1	12/28/17	05/30/19	Aliano, Carmela	1	125ml	1000	UG/ML

Veritech Control/Receipt Number: 11349

Description: Hg MERCURY

ApprovedBy: shiamala
ApproveDate: 01/31/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
SCP SCIENCE	140-051-801	S171019015	12/29/17	12/30/18	Aliano, Carmela	1	125ml	1000	UG/ML

Veritech Control/Receipt Number: 11487

Description: Hydrochloric Acid

ApprovedBy:
ApproveDate:
Checked: No

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9530-33	189699	02/12/18	11/07/22	Burwell, John	6	2.5	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11333

Description
Nitric Acid

ApprovedBy: jean
ApproveDate: 12/19/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9598-34	187388	12/14/17	10/18/22	Burwell, John	8	2.5L	neat	neat

Veritech Control/Receipt Number: 11340

Description
sulfuric acid

ApprovedBy: shiamala
ApproveDate: 01/31/18
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	A510-P212	3116093	12/21/17	05/04/20	Lopez, Jose	6	2.5L	neat	neat

H 22208 SW

8022605 0796

1st Review OA 02/27/2018 V-274447

Analysis Begun

Logged In Analyst: usermet
Technique: AA FIMS-MHS
Spectrometer Model: FIMS-100, S/N B050-9550
Autosampler Model: AS-90

Sample Information File: C:\data-AA\johns\Sample Information\H22208SW.sif
Batch ID: H22208SW
Results Data Set: H22208SW
Results Library: C:\data-AA\johns\Results\Results.mdb

Method Loaded
Method Name: HGCV3 SWH20 (7470A)
Method Last Saved: 2/1/2018 7:39:29 PM
Method Description: HgCV3 SW846H20 (7470A)

Sequence No.: 1
Autosampler Location: 1
Sample ID: Calibration Blank
Date Collected: 2/27/2018 2:45:30 PM
Analyst:
Data Type: Original

Replicate Data: Calibration Blank

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0001	0.0003	0.0001	14:46:26	Yes
2		[0.00]	0.0000	0.0002	0.0000	14:46:59	Yes
Mean:		[0.00]	0.0000				
SD:		0.00	0.0000				
%RSD:		0.00	18.76				

Auto-zero performed.

Sequence No.: 2
Autosampler Location: 2
Sample ID: .2 PPB
Date Collected: 2/27/2018 2:47:00 PM
Analyst:
Data Type: Original

Replicate Data: .2 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0013	0.0045	0.0014	14:47:56	Yes
2		[0.2]	0.0013	0.0050	0.0013	14:48:28	Yes
Mean:		[0.2]	0.0013				
SD:		0.0	0.0000				
%RSD:		0.0	0.75				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.00652 Intercept: 0.00000

Sequence No.: 3
Autosampler Location: 3
Sample ID: .5 PPB
Date Collected: 2/27/2018 2:48:30 PM
Analyst:
Data Type: Original

Replicate Data: .5 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.5]	0.0032	0.0115	0.0033	14:49:25	Yes
2		[0.5]	0.0032	0.0121	0.0033	14:49:58	Yes
Mean:		[0.5]	0.0032				
SD:		0.0	0.0000				
%RSD:		0.0	0.32				

Standard number 2 applied. [0.5]
Correlation Coef.: 0.999995 Slope: 0.00647 Intercept: 0.00000

Sequence No.: 4
Autosampler Location: 4
Sample ID: 1 PPB
Date Collected: 2/27/2018 2:49:59 PM
Analyst:
Data Type: Original

Replicate Data: 1 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	[1]	0.0065	0.0231	0.0066	14:50:54	Yes
2	[1]	0.0065	0.0233	0.0066	14:51:27	Yes
Mean:	[1]	0.0065				
SD:	0	0.0000				
%RSD:	0	0.23				

Standard number 3 applied. [1]
Correlation Coef.: 0.999986 Slope: 0.00653 Intercept: -0.00001

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: 2 PPB **Date Collected: 2/27/2018 2:51:29 PM**
Analyst: **Data Type: Original**

Replicate Data: 2 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[2]	0.0132	0.0462	0.0132	14:52:24	Yes
2		[2]	0.0131	0.0452	0.0131	14:52:57	Yes
Mean:		[2]	0.0131				
SD:		0	0.0001				
%RSD:		0	0.55				

Standard number 4 applied. [2]
Correlation Coef.: 0.999994 Slope: 0.00656 Intercept: -0.00002

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: 5 PPB **Date Collected: 2/27/2018 2:52:58 PM**
Analyst: **Data Type: Original**

Replicate Data: 5 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5]	0.0315	0.1106	0.0316	14:53:54	Yes
2		[5]	0.0314	0.1096	0.0314	14:54:26	Yes
Mean:		[5]	0.0315				
SD:		0	0.0001				
%RSD:		0	0.36				

Standard number 5 applied. [5]
Correlation Coef.: 0.999850 Slope: 0.00629 Intercept: 0.00015

Sequence No.: 7 **Autosampler Location: 7**
Sample ID: 10 PPB **Date Collected: 2/27/2018 2:54:28 PM**
Analyst: **Data Type: Original**

Replicate Data: 10 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10]	0.0638	0.2234	0.0638	14:55:23	Yes
2		[10]	0.0637	0.2220	0.0638	14:55:56	Yes
Mean:		[10]	0.0638				
SD:		0	0.0000				
%RSD:		0	0.06				

Standard number 6 applied. [10]
Correlation Coef.: 0.999954 Slope: 0.00636 Intercept: 0.00008

Sequence No.: 8 **Autosampler Location: 8**
Sample ID: 25 PPB **Date Collected: 2/27/2018 2:56:21 PM**
Analyst: **Data Type: Original**

Replicate Data: 25 PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[25]	0.1580	0.5560	0.1580	14:57:21	Yes
2		[25]	0.1568	0.5523	0.1569	14:57:54	Yes
Mean:		[25]	0.1574				
SD:		0	0.0008				
%RSD:		0	0.51				

Standard number 7 applied. [25]
Correlation Coef.: 0.999984 Slope: 0.00630 Intercept: 0.00021

Calibration data for Hg 253.7 Equation: Linear, Calculated Intercept

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Calibration Blank	0.0000	0	-0.033	0.00	18.8
.2 PPB	0.0013	0.2	0.174	0.00	0.7
.5 PPB	0.0032	0.5	0.481	0.00	0.3
1 PPB	0.0065	1.0	1.004	0.00	0.2
2 PPB	0.0131	2.0	2.049	0.00	0.6
5 PPB	0.0315	5.0	4.964	0.00	0.4
10 PPB	0.0638	10.0	10.096	0.00	0.1
25 PPB	0.1574	25.0	24.965	0.00	0.5

Correlation Coef.: 0.999984 Slope: 0.00630 Intercept: 0.00021

Sequence No.: 9 Autosampler Location: 10
Sample ID: ICV (2) Date Collected: 2/27/2018 2:58:20 PM
Analyst: Data Type: Original

Replicate Data: ICV (2)

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	20.75	20.75	0.1308	0.4589	0.1309	14:59:17	Yes
2	20.56	20.56	0.1296	0.4531	0.1297	14:59:49	Yes
Mean:	20.65	20.65	0.1302				
SD:	0.135	0.135	0.0009				
%RSD:	0.655	0.655	0.65				

QC value within limits for Hg 253.7 Recovery = 103.27%
All analyte(s) passed QC.

Sequence No.: 10 Autosampler Location: 1
Sample ID: ICB Date Collected: 2/27/2018 3:00:12 PM
Analyst: Data Type: Original

Replicate Data: ICB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.043	-0.043	-0.0001	-0.0006	-0.0000	15:01:08	Yes
2	-0.045	-0.045	-0.0001	-0.0009	-0.0000	15:01:41	Yes
Mean:	-0.044	-0.044	-0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	3.221	3.221	13.13				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 11 Autosampler Location: 11
Sample ID: MB 66498 (1) Date Collected: 2/27/2018 3:01:42 PM
Analyst: Data Type: Original

Replicate Data: MB 66498 (1)

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.038	-0.038	-0.0000	-0.0006	0.0000	15:02:39	Yes
2	-0.039	-0.039	-0.0000	-0.0008	0.0000	15:03:11	Yes
Mean:	-0.038	-0.038	-0.0000				
SD:	0.001	0.001	0.0000				
%RSD:	2.569	2.569	19.17				

Sequence No.: 12 Autosampler Location: 12
Sample ID: LCSW 66498 Date Collected: 2/27/2018 3:03:13 PM
Analyst: Data Type: Original

Replicate Data: LCSW 66498

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.34	10.34	0.0653	0.2281	0.0654	15:04:08	Yes
2	10.34	10.34	0.0653	0.2269	0.0654	15:04:41	Yes
Mean:	10.34	10.34	0.0653				

SD:	0.003	0.003	0.0000
%RSD:	0.028	0.028	0.03

Sequence No.: 13 Autosampler Location: 13
Sample ID: LCSW MR 66498 Date Collected: 2/27/2018 3:05:04 PM
Analyst: Data Type: Original

Replicate Data: LCSW MR 66498

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.70	10.70	0.0675	0.2355	0.0676	15:06:03	Yes
2	10.62	10.62	0.0671	0.2336	0.0671	15:06:35	Yes
Mean:	10.66	10.66	0.0673				
SD:	0.053	0.053	0.0003				
%RSD:	0.498	0.498	0.50				

Sequence No.: 14 Autosampler Location: 14
Sample ID: AD02671-003 Date Collected: 2/27/2018 3:06:59 PM
Analyst: Data Type: Original

Replicate Data: AD02671-003

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.039	-0.039	-0.0000	-0.0004	0.0000	15:07:57	Yes
2	-0.020	-0.020	0.0001	0.0007	0.0001	15:08:30	Yes
Mean:	-0.029	-0.029	0.0000				
SD:	0.013	0.013	0.0001				
%RSD:	44.32	44.32	338.49				

Sequence No.: 15 Autosampler Location: 15
Sample ID: AD02671-003 MR Date Collected: 2/27/2018 3:08:31 PM
Analyst: Data Type: Original

Replicate Data: AD02671-003 MR

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.040	-0.040	-0.0000	-0.0010	-0.0000	15:09:27	Yes
2	-0.036	-0.036	-0.0000	-0.0000	0.0000	15:09:59	Yes
Mean:	-0.038	-0.038	-0.0000				
SD:	0.003	0.003	0.0000				
%RSD:	7.662	7.662	56.83				

Sequence No.: 16 Autosampler Location: 16
Sample ID: AD02671-003 MS1 Date Collected: 2/27/2018 3:10:00 PM
Analyst: Data Type: Original

Replicate Data: AD02671-003 MS1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.61	10.61	0.0670	0.2344	0.0671	15:10:56	Yes
2	10.70	10.70	0.0676	0.2342	0.0676	15:11:28	Yes
Mean:	10.66	10.66	0.0673				
SD:	0.062	0.062	0.0004				
%RSD:	0.583	0.583	0.58				

Sequence No.: 17 Autosampler Location: 17
Sample ID: AD02671-003 MS2 Date Collected: 2/27/2018 3:11:53 PM
Analyst: Data Type: Original

Replicate Data: AD02671-003 MS2

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.25	10.25	0.0647	0.2253	0.0648	15:12:52	Yes
2	10.25	10.25	0.0647	0.2259	0.0648	15:13:25	Yes
Mean:	10.25	10.25	0.0647				
SD:	0.001	0.001	0.0000				

%RSD: 0.009 0.009 0.01

==========

Sequence No.: 18 **Autosampler Location: 18**
Sample ID: AD02743-006 **Date Collected: 2/27/2018 3:13:51 PM**
Analyst: **Data Type: Original**

Replicate Data: AD02743-006

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.036	-0.036	-0.0000	-0.0004	0.0000	15:14:51	Yes
2	-0.037	-0.037	-0.0000	-0.0007	0.0000	15:15:23	Yes
Mean:	-0.036	-0.036	-0.0000				
SD:	0.000	0.000	0.0000				
%RSD:	0.929	0.929	10.61				

==========

Sequence No.: 19 **Autosampler Location: 19**
Sample ID: AD02743-007 **Date Collected: 2/27/2018 3:15:24 PM**
Analyst: **Data Type: Original**

Replicate Data: AD02743-007

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.041	-0.041	-0.0000	-0.0005	-0.0000	15:16:24	Yes
2	-0.036	-0.036	-0.0000	-0.0002	0.0000	15:16:56	Yes
Mean:	-0.038	-0.038	-0.0000				
SD:	0.004	0.004	0.0000				
%RSD:	9.332	9.332	68.97				

==========

Sequence No.: 20 **Autosampler Location: 9**
Sample ID: CCV **Date Collected: 2/27/2018 3:16:58 PM**
Analyst: **Data Type: Original**

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.15	10.15	0.0641	0.2265	0.0642	15:17:53	Yes
2	10.09	10.09	0.0638	0.2242	0.0638	15:18:26	Yes
Mean:	10.12	10.12	0.0639				
SD:	0.039	0.039	0.0002				
%RSD:	0.387	0.387	0.39				

QC value within limits for Hg 253.7 Recovery = 101.23%
All analyte(s) passed QC.

==========

Sequence No.: 21 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/27/2018 3:18:48 PM**
Analyst: **Data Type: Original**

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.044	-0.044	-0.0001	-0.0015	-0.0000	15:19:45	Yes
2	-0.038	-0.038	-0.0000	-0.0000	0.0000	15:20:17	Yes
Mean:	-0.041	-0.041	-0.0000				
SD:	0.004	0.004	0.0000				
%RSD:	9.668	9.668	51.42				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

==========

Sequence No.: 22 **Autosampler Location: 20**
Sample ID: AD02743-009 **Date Collected: 2/27/2018 3:20:18 PM**
Analyst: **Data Type: Original**

Replicate Data: AD02743-009

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.038	-0.038	-0.0000	-0.0005	0.0000	15:21:15	Yes

2	-0.036	-0.036	-0.0000	-0.0005	0.0000	15:21:48	Yes
Mean:	-0.037	-0.037	-0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	4.035	4.035	37.88				

==========

Sequence No.: 23 Autosampler Location: 21
Sample ID: AD02771-001 Date Collected: 2/27/2018 3:21:50 PM
Analyst: Data Type: Original

Replicate Data: AD02771-001

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.044	-0.044	-0.0001	-0.0009	-0.0000	15:22:45	Yes
2	-0.038	-0.038	-0.0000	-0.0008	0.0000	15:23:17	Yes
Mean:	-0.041	-0.041	-0.0001				
SD:	0.004	0.004	0.0000				
%RSD:	10.52	10.52	54.19				

==========

Sequence No.: 24 Autosampler Location: 22
Sample ID: AD02771-002 Date Collected: 2/27/2018 3:23:19 PM
Analyst: Data Type: Original

Replicate Data: AD02771-002

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.040	-0.040	-0.0000	-0.0002	0.0000	15:24:14	Yes
2	-0.042	-0.042	-0.0001	-0.0006	-0.0000	15:24:47	Yes
Mean:	-0.041	-0.041	-0.0000				
SD:	0.002	0.002	0.0000				
%RSD:	4.321	4.321	22.67				

==========

Sequence No.: 25 Autosampler Location: 23
Sample ID: AD02799-002 Date Collected: 2/27/2018 3:24:48 PM
Analyst: Data Type: Original

Replicate Data: AD02799-002

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.009	-0.009	0.0002	0.0013	0.0002	15:25:43	Yes
2	-0.016	-0.016	0.0001	0.0005	0.0002	15:26:16	Yes
Mean:	-0.012	-0.012	0.0001				
SD:	0.005	0.005	0.0000				
%RSD:	42.95	42.95	25.18				

==========

Sequence No.: 26 Autosampler Location: 9
Sample ID: CCV Date Collected: 2/27/2018 3:26:17 PM
Analyst: Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	10.04	10.04	0.0634	0.2246	0.0635	15:27:14	Yes
2	10.08	10.08	0.0636	0.2230	0.0637	15:27:47	Yes
Mean:	10.06	10.06	0.0635				
SD:	0.026	0.026	0.0002				
%RSD:	0.263	0.263	0.26				

QC value within limits for Hg 253.7 Recovery = 100.57%
All analyte(s) passed QC.

==========

Sequence No.: 27 Autosampler Location: 1
Sample ID: CCB Date Collected: 2/27/2018 3:28:09 PM
Analyst: Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	-0.040	-0.040	-0.0000	-0.0008	0.0000	15:29:05	Yes
2	-0.040	-0.040	-0.0000	-0.0010	0.0000	15:29:38	Yes
Mean:	-0.040	-0.040	-0.0000				
SD:	0.000	0.000	0.0000				
%RSD:	0.084	0.084	0.51				

QC value within limits for Hg 253.7 Recovery = Not calculated
All analyte(s) passed QC.

8022605 0803

Metal Data
Digestion Logbook Data

Hampton-Clarke

ICP SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 3010A/3005A 3050B 200.7/200.8 **OTHER**_____

Batch No.: 22208 Analyst: BA

QC Number: 66498 Prep Date: 2/27/18

Matrix: SW846 Reviewed By: [signature]

LAB ID#	ICP		ICP-MS (Secondary dil)		TCLP		COMMENTS
	Initial	Final	Aliquot	Final	Eff	TCLP	
Method blank	50mL	50mL	10mL	20mL		--	
LCS						--	
LCSD						--	
1. QC 02671-013							Samples are combined prior to analysis to provide extra sample volume for analysis
1. Analytical Duplicate							
MR 02671-013							
MS 02671-013							Balance used: —
MSD 02671-013							Pipettes used: 149
2. 02743-006							
3. -007						(FB)	Hot Block used: 1
4. -009							
5. 02771-001							
6. -002							
7. 02671-001							
8. -002							
9. -004							
10. -005							
11. 02799-002							
12. 02668-001							
13. -002							
14. -003			BA	BA			
15. -004							
16. -005							
17. -006							
18. -007							
19.							
20.							

Hot Plate Temperature: 92.0 C (90-95° C) Start Time: 9:10 End Time: 13:48

	Volume mL	Lot #
LCS, LCSD	0.25mL	V- 11505, 11506
LLLCS, LLLCSD		V-
MS, MSD	0.25ml	V- 11505, 11506
LLMS, LLMSD		V-

Acid	Vol mL	Lot#
HNO_3	3mL	V- 11433
HCl		V-
H_2O_2		V-

Acid	Vol mL	Lot#
1:1 HNO_3		V-
1:1 HCl	5mL	V- 218728

Relinquished By BA Date 2/27/18

Received By [signature] Date 2/28/18

HG SAMPLE PREPARATION LOG

ANALYTICAL METHOD: 245.1 (7470A) 7471B OTHER_____

Batch No.:* 22208

QC Number: 66498

Matrix: SW846

Analyst: [signature]

Prep Date: 2/27/18

Review By: [signature]

LAB ID#	MERCURY		COMMENTS	STANDARDS
	INITIAL	FINAL		
Method blank	25 ml	25ml		CAL CURVE BLK 0ppb V-274455
LCS				
LCSD				STD 0.2 ppb V-274456
1 02671-003				STD 0.5 ppb V-274457
MR 02671-003				STD 1.0 ppb V-274458
MS 02671-003				STD 2.0 ppb V-274459
MSD 02671-003				STD 5.0 ppb V-274460
2 02743-006				STD 10.0 ppb V-274461
3 -007				STD 25.0 ppb V-274462
4 -009				ICV 10.0 ppb V-274453
5 02771-001				CCV 20.0 ppb V-274454
6 -002				
7 02791-002				
8				Balance used: N/A
9				Pipettes used: 121, 150, 135
10				
11				Hot Block used: 6
12				
13				
14				
15				
16				
17				
18				
19				
20				

Lot Numbers	Volume (mL)	Acid	Volume (mL)	Lot #
$KMnO_4$: V-273310	3.75ml	HNO3	0.625ml	V- 11333
$K_2S_2O_8$: V-273311	2ml	HCl		V-
NH2OH: V-273312	1.5ml	H2SO4	1.25ml	V- 11340
		Aqua Regia		V-

**Block Temp.: °C 93.6

Time In Block: 10:00

Time Out of Block: 12:00

LCS Volume & Lot # LCS V-274452 0.15g (0.25 ml)

MS V-274452 0.250 ml

Standards/Control Batch B-24616

Start time: 9:10 End Time: 12:00

**Temperature
245.1 / 7470A: 90-95C
7471B : 92-98C

Relinquished By: [signature]

20 mLs of each standard was digested with this batch using the same reagents and at the same time as the above samples. The preparation of each standard may be referenced in Veriprog using the standard batch number and the corresponding V #s.

HG PREP 2016

Wet Chemistry Data

Wet Chemistry Data
Sample Data

VERITECH Wet Chem Form1 Analysis Summary

Lab#: AD02799-002
Matrix Aqueous
Client SampleID: WC_02232018

Project Number: 8022605
Received Date: 2/26/2018
Collect Date: 2/23/2018

Analysis	TestGroup	Dilution:	Result	Units:	RL	Prep Date:	Analysis Date:
Cyanide (Reactive)	CN-REACTIVE	1	ND	mg/Kg	0.50	02/28/18	02/28/18
Flash Point	FLASH POINT	1	>141	Deg. F			02/27/18
pH	PH-WATER-MUR	1	8.4	pH			03/01/18
Sulfide (Reactive)	S-REACTIVE	1	ND	mg/kg	100	02/28/18	02/28/18

Wet Chemistry Data
QC Data

MS/MSD/DUP Recovery

8022605 0810

Prep Batch: S-1130 Sample ID: AD02774-008
Method: SW846 7.3 Matrix: Soil

Qc Type: MS		Limits			MS	Sample			MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov	Dil		Conc	Conc	% Rec	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Cyanide (Reactive)	0.4	75-125	1		0.3996	0	100		20180228130	13	02/28/18 13:32	20180228130	15	02/28/18 13:36

Qc Type: MSD		Limits			MSD	Sample				MS/MSD/DUP			Non Spike		
Analyte	Amt	Recov	Rpd	Dil	Conc	Conc	% Rec	Rpd	Flag	Batch	RunID	Analysis Date	Batch	RunID	Analysis Date
Cyanide (Reactive)	0.4	75-125	20	1	0.4084	0	102	2.2		20180228130	14	02/28/18 13:34	20180228130	15	02/28/18 13:36

LCS Recoveries

BatchRunID/RunID:===>		201802281304-12				
QcBatchID:===>		LCSS-1130				
Date/Time:===>		02/28/18 13:29				
Analytical Method:===>		SW846 7.3				
Matrix:===>		Soil	Soil	Soil	Soil	Soil
Analyte	SW846 7.3 Amt Limits Amt Limits	% Rec Flags	% Rec Flags	% Rec Flags	% Rec Flags	% Rec Flags
Cyanide (Rea	0.4 75-125	103				

Calibration Summary:

8022605 0812

Instrument: DA1
Analysis Meth: SW846 7.3

Analyte	Batch ID	Run#	Qc Type	Recov	Spk Amt	Limit
Cyanide (Reactive)	20180228130	9	ICV	93	0.4	90-110
Cyanide (Reactive)	20180228130	21	CCV	98	0.4	90-110
Cyanide (Reactive)	20180228130	32	CCV	100	0.4	90-110

Blank Summary

Instrument: DA1

Qc Type: Method Blank Summary Prep Date: 2/28/18

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20180228130	2/28/18 13:27	MBS-1130	11	Cyanide (	ND	0.50

Qc Type: ICB Summary Prep Date: NA

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20180228130	2/28/18 13:25	CCB	10	Cyanide (	ND	0.020

Qc Type: CCB Summary Prep Date: NA

Run Batch ID	Analysis Date/Time	Sample ID	Run#	Analyte	Conc	RL
20180228130	2/28/18 13:53	CCB	22	Cyanide (	ND	0.020
20180228130	2/28/18 14:15	CCB	33	Cyanide (	ND	0.020

Analysis Type: FLASH-PT

8022605 0814

Batch Number: FLASH-PT-544

Units: Deg. F

Calibration Curve Information

Qc Summary Results

Qc Type	Qc Name	SpkAmt	Rec Lim	Rpd Lim	Raw Result	Recov	Rpd	Flags
CAL-01	CAL-01-02/27/18	81	90-110	NA	82	101	NA	
DUP	AD02741-002	0	NA	20	#Error	NA	NA	Nc

Analytical Method(s)

EPA 1010

am #	Type	MB	Result	RL	Per Sol	Full Result	Obs FP	Press	p-Xylene std	Prep Date	Prep By	Anal Date	Anal By
AL-01-02/27/18	CAL-01		82		100	82	82.0	760	82.0			02/27/18	SDL
D02741-002	DUP				100	0	>141	760	82.0			02/27/18	SDL
D02741-002	Sample				100	0	>141	760	82.0			02/27/18	SDL
D02741-004	Sample				100	0	>141	760	82.0			02/27/18	SDL
D02741-006	Sample				100	0	>141	760	82.0			02/27/18	SDL
D02742-001	Sample				100	0	>141	760	82.0			02/27/18	SDL
D02762-001	Sample				100	0	>141	760	82.0			02/27/18	SDL
D02766-001	Sample				100	0	>141	760	82.0			02/27/18	SDL
D02767-002	Sample				100	0	>141	760	82.0			02/27/18	SDL
D02767-004	Sample				100	0	>141	760	82.0			02/27/18	SDL
D02773-001	Sample				100	0	>141	760	82.0			02/27/18	SDL
D02799-002	Sample				100	0	>141	760	82.0			02/27/18	SDL

2/28/18

3/5/18

Flag Codes: Ra - Recovery failed specified criteria (PVS/LCS/MS/MSD/ICV/CAL)
Na - Not Applicable
Rp - RPD failed specified criteria.
Nc - Not Checked .either one or both values =ND

Analysis Type: PH-W

8022605 0815

Batch Number: PH-W-910

Units: pH

Calibration Curve Information

Qc Summary Results

Qc Type	Qc Name	SpkAmt	Rec Lim	Rpd Lim	Raw Result	Recov	Rpd	Flags
DUP	AD02767-002	0	NA	20	7.85	NA	0.13	
LCS	LCS	4.4	75-125	NA	4.33	98	NA	

Analytical Method(s)

SM4500-H+B11

Sam #	Type	MB	Result	RL	Per Sol	Full Result	PH	TEMP	Prep Date	Prep By	Anal Date	Anal By
CS	LCS		4.3		100	4.33	4.33	23.4			03/01/18	JMP
D02767-002	DUP		7.8		100	7.85	7.85	21.2			03/01/18	JMP
D02767-002	Sample		7.9		100	7.86	7.86	21.1			03/01/18	JMP
D02767-004	Sample		9.0		100	9.05	9.05	21.4			03/01/18	JMP
D02797-001	Sample		7.8		100	7.77	7.77	20.9			03/01/18	JMP
D02797-002	Sample		6.9		100	6.9	6.90	21.0			03/01/18	JMP
D02799-002	Sample		8.4		100	8.36	8.36	20.9			03/01/18	JMP
D02812-001	Sample		5.6		100	5.6	5.60	21.1			03/01/18	JMP
D02813-001	Sample		8.1		100	8.09	8.09	21.0			03/01/18	JMP
D02813-002	Sample		7.0		100	7.04	7.04	21.1			03/01/18	JMP
D02813-003	Sample		5.5		100	5.5	5.50	21.1			03/01/18	JMP
D02813-004	Sample		7.2		100	7.23	7.23	21.0			03/01/18	JMP
D02820-001	Sample		7.8		100	7.79	7.79	21.0			03/01/18	JMP
D02841-001	Sample		8.5		100	8.5	8.50	21.1			03/01/18	JMP
D02841-002	Sample		7.8		100	7.79	7.79	21.0			03/01/18	JMP
D02843-003	Sample		8.6		100	8.63	8.63	21.0			03/01/18	JMP

JMP 3/1/18

JW 3/5/18

Flag Codes: Ra - Recovery failed specified criteria (PVS/LCS/MS/MSD/ICV/CAL)
Na - Not Applicable
Rp - RPD failed specified criteria.
Nc - Not Checked ..either one or both values =ND

8022605 0816

Analysis Type: RS

Batch Number: RS-1130

Units: mg/kg

Calibration Curve Information

Qc Summary Results

Qc Type	Qc Name	SpkAmt	Rec Lim	Rpd Lim	Raw Result	Recov	Rpd	Flags
CAL-01	CAL-01-02/28/18	16	90-110	NA	16.03	100	NA	
LCS	LCS	400	75-125	NA	420.7875	105	NA	
MS	AD02774-008	400	75-125	NA	430.80625	108	NA	
MSD	AD02774-008	400	75-125	20	430.80625	108	0	

Analytical Method(s)

SW846 7.3

Sam #	Type	MB	Result	RL	Per Soi	Full Result	Titr Vol	Iod Vol	DF	Sam Wt (g)	Scrb Vol (ml)	Prep Date	Prep By	Anal Date	Anal By
CAL-01-02/28/18	CAL-01		16		100	16.03	6.0	10	1	250	250			02/28/18	JMP
MB-1-02/28/18	MB	MB-1-02/28/18	ND	100	100	10.019	9.9	10	1	10	250	02/28/18	JMP	02/28/18	JMP
LCS	LCS	MB-1-02/28/18	420	100	100	420.79	5.8	10	1	10	250	02/28/18	JMP	02/28/18	JMP
AD02774-008	MS	MB-1-02/28/18	430	100	94	430.81	5.7	10	1	10	250	02/28/18	JMP	02/28/18	JMP
AD02774-008	MSD	MB-1-02/28/18	430	100	94	430.81	5.7	10	1	10	250	02/28/18	JMP	02/28/18	JMP
AD02774-008	Sample	MB-1-02/28/18	ND	100	94	20.038	9.8	10	1	10	250	02/28/18	JMP	02/28/18	JMP
AD02774-010	Sample	MB-1-02/28/18	ND	100	94	30.056	9.7	10	1	10	250	02/28/18	JMP	02/28/18	JMP
AD02774-012	Sample	MB-1-02/28/18	ND	100	95	10.019	9.9	10	1	10	250	02/28/18	JMP	02/28/18	JMP
AD02774-014	Sample	MB-1-02/28/18	ND	100	96	40.075	9.6	10	1	10	250	02/28/18	JMP	02/28/18	JMP
AD02798-002	Sample	MB-1-02/28/18	ND	100	86	20.038	9.8	10	1	10	250	02/28/18	JMP	02/28/18	JMP
AD02798-004	Sample	MB-1-02/28/18	ND	100	96	10.019	9.9	10	1	10	250	02/28/18	JMP	02/28/18	JMP
AD02798-006	Sample	MB-1-02/28/18	ND	100	95	30.056	9.7	10	1	10	250	02/28/18	JMP	02/28/18	JMP
AD02798-008	Sample	MB-1-02/28/18	ND	100	87	10.019	9.9	10	1	10	250	02/28/18	JMP	02/28/18	JMP
AD02798-010	Sample	MB-1-02/28/18	ND	100	86	20.038	9.8	10	1	10	250	02/28/18	JMP	02/28/18	JMP
AD02798-012	Sample	MB-1-02/28/18	ND	100	86	40.075	9.6	10	1	10	250	02/28/18	JMP	02/28/18	JMP
AD02798-014	Sample	MB-1-02/28/18	ND	100	94	10.019	9.9	10	1	10	250	02/28/18	JMP	02/28/18	JMP
AD02798-016	Sample	MB-1-02/28/18	ND	100	95	20.038	9.8	10	1	10	250	02/28/18	JMP	02/28/18	JMP
AD02799-002	Sample	MB-1-02/28/18	ND	100	100	10.019	9.9	10	1	10	250	02/28/18	JMP	02/28/18	JMP
AD02806-002	Sample	MB-1-02/28/18	ND	100	87	30.056	9.7	10	1	10	250	02/28/18	JMP	02/28/18	JMP
AD02807-002	Sample	MB-1-02/28/18	ND	100	88	20.038	9.8	10	1	10	250	02/28/18	JMP	02/28/18	JMP

JMP 2/28/18

GW 3/5/18

Flag Codes: Ra - Recovery failed specified criteria (PVS/LCS/MS/MSD/ICV/CAL) Rp - RPD failed specified criteria.
Na - Not Applicable Nc - Not Checked ..either one or both values =ND

Wet Chemistry Data
Raw Data

8022609 0818

Logo

AQ-2 Report

Serial Number: 090817
Report Requested By: Jessica
Date & Time: Thu Mar 01 07:18:24 2018
Tray Number: 24
Tray Name: RCN-1130

Worklist

Cup	Type	ID	Details	Tests
2	U1	MBS-1130	S	tCN-m
3	U2	LCSS-1130	S	tCN-m
4	U3	AD02774-008MS	S	tCN-m
5	U4	AD02774-008MSD	S	tCN-m
6	U5	AD02774-008	S	tCN-m
7	U6	AD02774-010	S	tCN-m
8	U7	AD02774-012	S	tCN-m
9	U8	AD02774-014	S	tCN-m
10	U9	AD02798-002	S	tCN-m
11	U10	AD02798-004	S	tCN-m
12	U11	AD02798-006	S	tCN-m
13	U12	AD02798-008	S	tCN-m
14	U13	AD02798-010	S	tCN-m
15	U14	AD02798-012	S	tCN-m
16	U15	AD02798-014	S	tCN-m
17	U16	AD02798-016	S	tCN-m
18	U17	AD02799-002	S	tCN-m
19	U18	AD02806-002	S	tCN-m
20	U19	AD02807-002	S	tCN-m

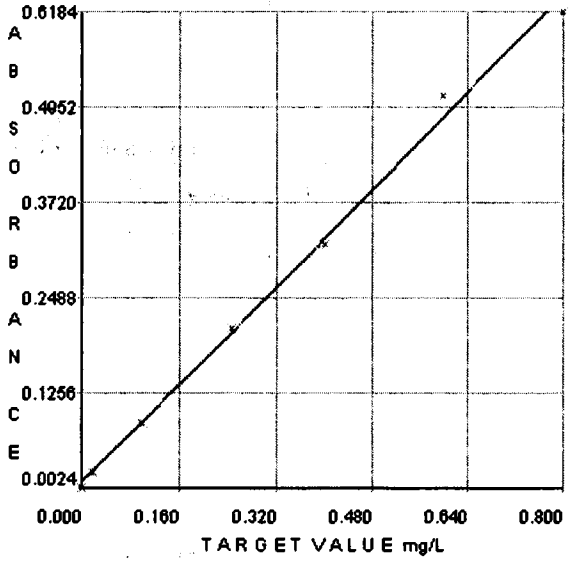
AQ2 tCN mod

Calibration Chart

Type	Observed	Calculated	Target	% Error
S1	0.0024	-0.0063	0.0000	
S90	0.0210	0.0173	0.0200	-13.55
S91	0.0857	0.0993	0.1000	-0.71
S92	0.2073	0.2535	0.2480	2.21
S93	0.3177	0.3933	0.4000	-1.67
S94	0.5095	0.6364	0.6000	6.07
S95	0.6184	0.7745	0.8000	-3.19
S0	0.0024	-0.0062	0.0000	

Polynomial Order: 1
Correlation Coefficient: 0.9981
Carryover(%): 0.0
Calibration Equation: y = bx + a
y =: Concentration mg/L
x =: Measured Absorbance
a =: -9.294547E-003
b =: 1.267370E+000
Date & Time: Wed Feb 28 13:20:43 2018

Calibration Graph



JW 3/5/18

JMP 3/11/18

Reagents

Name	Batch	Prepared By	Expiry Date
tCN Neutral	V-273053	JW	Wed Mar 07 21:00:00 2018

tCN Chlor T	V-274565	JMP	Thu Mar 01 21:00:00 2018
tCN Pyr Barb	V-274564	JMP	Wed Mar 07 21:00:00 2018

Cup	Type	ID	Result	Units	Raw Data	Test Dil.	Cup Dil.	User	Time/Date
	S1	STANDARD 1	0.0024		0.002370			JMP	Wed Feb 28 13:04:22 2018
	S90	STANDARD 90	0.0210		0.020977			JMP	Wed Feb 28 13:06:43 2018
	S91	STANDARD 91	0.0857		0.085676			JMP	Wed Feb 28 13:09:04 2018
	S92	STANDARD 92	0.2073		0.207344			JMP	Wed Feb 28 13:11:25 2018
	S93	STANDARD 93	0.3177		0.317689			JMP	Wed Feb 28 13:13:44 2018
	S94	STANDARD 94	0.5095		0.509480			JMP	Wed Feb 28 13:16:04 2018
	S95	STANDARD 95	0.6184		0.618429			JMP	Wed Feb 28 13:18:23 2018
	S0	STANDARD 0	0.0024		0.002430			JMP	Wed Feb 28 13:20:43 2018
	C11	C C V	0.3710	mg/L	0.300089			JMP	Wed Feb 28 13:23:02 2018
	C12	C C B	-0.0058	mg/L	0.002740			JMP	Wed Feb 28 13:25:21 2018
2	U1	MBS-1130	-0.0062	mg/L	0.002432			JMP	Wed Feb 28 13:27:40 2018
3	U2	LCSS-1130	0.4105	mg/L	0.331198			JMP	Wed Feb 28 13:29:59 2018
4	U3	AD02774-008MS	0.3996	mg/L	0.322600			JMP	Wed Feb 28 13:32:18 2018
5	U4	AD02774-008MSD	0.4084	mg/L	0.329571			JMP	Wed Feb 28 13:34:37 2018
6	U5	AD02774-008	-0.0057	mg/L	0.002843			JMP	Wed Feb 28 13:36:59 2018
7	U6	AD02774-010	-0.0059	mg/L	0.002706			JMP	Wed Feb 28 13:39:20 2018
8	U7	AD02774-012	-0.0062	mg/L	0.002456			JMP	Wed Feb 28 13:41:38 2018
9	U8	AD02774-014	-0.0055	mg/L	0.002955			JMP	Wed Feb 28 13:43:58 2018
10	U9	AD02798-002	-0.0060	mg/L	0.002628			JMP	Wed Feb 28 13:46:17 2018
11	U10	AD02798-004	-0.0057	mg/L	0.002826			JMP	Wed Feb 28 13:48:36 2018
	C11	C C V	0.3900	mg/L	0.315082			JMP	Wed Feb 28 13:50:55 2018
	C12	C C B	-0.0063	mg/L	0.002352			JMP	Wed Feb 28 13:53:15 2018
12	U11	AD02798-006	-0.0056	mg/L	0.002886			JMP	Wed Feb 28 13:55:35 2018
13	U12	AD02798-008	-0.0059	mg/L	0.002671			JMP	Wed Feb 28 13:57:54 2018
14	U13	AD02798-010	-0.0064	mg/L	0.002252			JMP	Wed Feb 28 14:00:14 2018
15	U14	AD02798-012	-0.0059	mg/L	0.002697			JMP	Wed Feb 28 14:02:36 2018
16	U15	AD02798-014	-0.0059	mg/L	0.002697			JMP	Wed Feb 28 14:04:56 2018
17	U16	AD02798-016	-0.0049	mg/L	0.003499			JMP	Wed Feb 28 14:06:53 2018
18	U17	AD02799-002	-0.0059	mg/L	0.002709			JMP	Wed Feb 28 14:08:44 2018
19	U18	AD02806-002	-0.0052	mg/L	0.003240			JMP	Wed Feb 28 14:10:26 2018
20	U19	AD02807-002	-0.0053	mg/L	0.003171			JMP	Wed Feb 28 14:12:08 2018
	C11	C C V	0.4001	mg/L	0.322997			JMP	Wed Feb 28 14:13:49 2018
	C12	C C B	-0.0057	mg/L	0.002861			JMP	Wed Feb 28 14:15:31 2018

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-273053

Prepared By: Wonge, Janee | Department: WetChem | ApprovedBy: janee
Description: Sodium Phosphate | BatchNumber: | ApproveDate: 02/08/18
Prep Date: 2/8/2018 | Concentration: Reagent reag | Checked: Yes
Expiration Date: 3/7/2018 | Final Volume: 250 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
7862	Sodium Phosphate Monobasic	34.5 g	neat neat	
	DI WATER FILL TO THE VOLUME			

Veritech Lot Number: V-274545

Prepared By: Trivedi, Beena | Department: WetChem | ApprovedBy: JW 3/5/18
Description: 0.25 N NaOH | BatchNumber: | ApproveDate:
Prep Date: 2/28/2018 | Concentration: 0.25 n | Checked: No
Expiration Date: 8/27/2018 | Final Volume: 6000 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
10791	Sodium hydroxide pellets	60 g	neat neat	
	DI WATER FILL TO THE VOLUME			

Veritech Lot Number: V-274546

Prepared By: Trivedi, Beena | Department: WetChem | ApprovedBy:
Description: 0.01N H2SO4 | BatchNumber: | ApproveDate:
Prep Date: 2/28/2018 | Concentration: 0.01 n | Checked: No
Expiration Date: 8/27/2018 | Final Volume: 6000 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
	DI WATER FILL TO THE VOLUME			
10902	sulfuric acid	1.8 ml	neat neat	

Veritech Lot Number: V-274560

Prepared By: Patel, Jessica | Department: WetChem | ApprovedBy:
Description: 20 ppm CN Standard | BatchNumber: | ApproveDate:
Prep Date: 2/28/2018 | Concentration: 20 ppm | Checked: No
Expiration Date: 3/7/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11277	1000 ppm CN std	2 ml	1000 ppm	
	DI WATER FILL TO THE VOLUME			

Veritech Lot Number: V-274561

Prepared By: Patel, Jessica | Department: WetChem | ApprovedBy:
Description: 20 ppm CN Control | BatchNumber: | ApproveDate:
Prep Date: 2/28/2018 | Concentration: 20 ppm | Checked: No
Expiration Date: 3/7/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11268	1000 ppm CN Std	2 ml	1000 ppm	
	DI WATER FILL TO THE VOLUME			

Veritech Lot Number: V-274562

Prepared By: Patel, Jessica | Department: WetChem | ApprovedBy:
Description: ICV/CCV | BatchNumber: | ApproveDate:
Prep Date: 2/28/2018 | Concentration: 0.40 ppm | Checked: No
Expiration Date: 3/7/2018 | Final Volume: 100 ml

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274561	20 ppm CN Control	2 ml	20 ppm	
V-274545	0.25 N NaOH	98 ml	0.25 n	

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-274563

Prepared By: Patel, Jessica
Description: 0.80 ppm Cyanide(Reactive)
Prep Date: 2/28/2018
Expiration Date: 3/7/2018
Department: WetChem
BatchNumber:
Concentration: 0.80 ppm
Final Volume: 100 ml
ApprovedBy: CW
ApproveDate: 3/5/18
Checked: No

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
V-274560	20 ppm CN Standard	4 ml	20 ppm	
V-274545	0.25 N NaOH	96 ml	0.25 n	

Veritech Lot Number: V-274564

Prepared By: Patel, Jessica
Description: Pyridine/Barbaturic acid
Prep Date: 2/28/2018
Expiration Date: 3/7/2018
Department: WetChem
BatchNumber:
Concentration: Reagent reag
Final Volume: 250 ml
ApprovedBy:
ApproveDate:
Checked: No

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
	DI WATER FILL TO THE VOLUME			
11142	Barbituric Acid	3.75 g	neat neat	
11044	Pyridine	18.75 ml	neat neat	
11243	hydrochloric acid	3.75 ml	neat neat	

Veritech Lot Number: V-274565

Prepared By: Patel, Jessica
Description: Chloramine -T (AQ2)
Prep Date: 2/28/2018
Expiration Date: 3/1/2018
Department: WetChem
BatchNumber:
Concentration: reagent reage
Final Volume: 50 ml
ApprovedBy:
ApproveDate:
Checked: No

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
8761	CHLORAMINE-T TRIHYDRATE	.5 g	NEAT neat	
	DI WATER FILL TO THE VOLUME			

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 7862

Description
Sodium Phosphate Monobasic

ApprovedBy: aurora
ApproveDate: 01/08/15
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
LabChem	LC24775-1	C044-27	04/24/13	04/23/23	Dalmeida, Melissa	7	500g	neat	neat

Veritech Control/Receipt Number: 8761

Description
CHLORAMINE-T TRIHYDRATE

ApprovedBy: janee
ApproveDate: 05/24/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
EMD	LS-1558335	K44515326 343	06/16/14	06/15/24	Trivedi, Beena	1	250G	NEAT	NEAT

Veritech Control/Receipt Number: 10791

Description
Sodium hydroxide pellets

ApprovedBy: shiamala
ApproveDate: 03/17/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
EMD Millipore	LS-1559318	b1357069 639	03/09/17	09/30/19	Wonge, Janee	1	12 kg	neat	neat

Veritech Control/Receipt Number: 10902

Description
sulfuric acid

ApprovedBy: shiamala
ApproveDate: 07/14/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
fisher	A510-P212	3116090	04/24/17	11/02/19	Lopez, Jose	8	2.5L	neat	neat

Veritech Control/Receipt Number: 11044

Description
Pyridine

ApprovedBy: akmal
ApproveDate: 09/29/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Fisher	P368-1	170503	06/30/17	08/31/21	Wonge, Janee	2	1 L	neat	neat

Veritech Control/Receipt Number: 11142

Description
Barbituric Acid

ApprovedBy: janee
ApproveDate: 08/29/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
GFS Chemicals	LS-1580004	C583332	08/29/17	08/29/22	Wonge, Janee	1	100 g	neat	neat

Veritech Control/Receipt Number: 11243

Description
hydrochloric acid

ApprovedBy: jean
ApproveDate: 10/24/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9530-33	183197	10/24/17	08/14/22	Lopez, Jose	11	2.5L	neat	neat

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11268

Description
1000 ppm CN Std

ApprovedBy: janee
ApproveDate: 11/08/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Lab Chem	LC13545	G298-05	11/08/17	05/02/18	Wonge, Janee	1	125 m	1000	ppm

Veritech Control/Receipt Number: 11277

Description
1000 ppm CN std

ApprovedBy: janee
ApproveDate: 11/28/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Ricca	2543-4	1710J62	11/13/17	04/30/18	Wonge, Janee	1	120 m	1000	ppm

Hampton-Clarke

FLASHPOINT DATA SHEET
(1010A)

Hood Off Check Temp: (81 ± 2 °F) _____ Batch No. 544

Hood Correction Factor: 0.0 Pressure Correction Factor: 0.0

Veritech Sample No.	Observed Flashpoint (°F)	Corrected Flashpoint	Pressure (mmHg)	Date SDC 2/27/18	Analyst	Instrument
p-Xylene	82.0	82.0	760	2/27/18	SDC	1
p-Xylene	82.0	82.0	760	2/27/18	SDC	2
DUP AD02741002	>141	>141				2
AD02762-001	>141	>141				2
AD02741-002	>141	>141				1
AD02741-004	>141	>141				2
" -006	>141	>141				1
AD02742001	>141	>141				2
AD02767-002	>141	>141				1
AD02767-004	>141	>141				2
AD02773-001	>141	>141				1
AD02766-001	>141	>141				2
AD02799002	>141	>141				1
			2/27/18			
		SDC				

p-Xylene Lot #: 11205

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 11205

Description
p-xylene

ApprovedBy: janee
ApproveDate: 11/06/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
EMD Millipore	LS-1559585	55162528	10/04/17	10/03/22	Wonge, Janee	6	500 m	neat	neat

Hampton-Clarke

pH DATA SHEET (Aqueous)
9040C / SM4500-H B-11

BATCH # 910

Veritech Sample No.	PH / Temp. (First Aliquot)	PH / Temp (Second Aliquot)	PH / Temp (Third Aliquot)	Date	Time	Analyst	Meter Number
DUP AD 02767-002	7.84/21.2	7.85/21.2	/	3/1/18	1211 0	JMP	16004
1 -002	7.88/21.1	7.86/21.1	/				
2 -004	9.06/21.4	9.05/21.4	/				
3 AD 02797-001	7.75/21.0	7.77/20.9	/				
4 -002	6.91/21.0	6.90/21.0	/				
5 AD 02799-002	8.38/21.1	8.36/20.9	/				
6 AD 02812-001	5.62/21.2	5.60/21.1	/				
7 AD 02813-001	8.10/21.1	8.09/21.0	/				
8 -002	7.05/21.1	7.04/21.1	/				
9 -003	5.52/21.0	5.50/21.1	/				
10 -004	7.21/20.8	7.23/21.0	/				
11 AD 02820-001	7.80/20.9	7.79/21.0	/				
12 AD 02841-001	8.48/21.0	8.50/21.1	/				
13 -002	7.80/21.1	7.79/21.0	/				
14 AD 02843-003	8.64/21.1	8.63/21.0	/				
15	/	/	/				
16	/	/	/				
17	/	/	/				
18	/	/	/				
19	/	/	/				
20	/	/	/				

9040C: Continue analyzing until successive aliquots of sample differ by <0.1 pH units
****waste samples greater than 12.0 must be measured at 25C +/- 1C****

LCS (4.2 – 4.6 units)

LCS #	LOT #	pH (units)	Temp.	Date	Time	Analyst
LCS-1	V- 273069	4.33	23.4	3/1/18	1211 0	JMP

Reviewed By:_____ Date:_____

Hampton-Clarke

pH CALIBRATION RECORD

pH Meter: Orion 3 Star

Serial # 16004

Date	Calibration				Checks				Buffer Lot #s		
	Initials / Time	Calibrate Buffer 1	Calibrate Buffer 2	Read pH 7.0 Buffer	Initials / Time	Read pH 7.0 Buffer	Initials / Time	Read pH 7.0 Buffer	pH 4.0	pH 10.0	pH 7.0
1/31/18	BJ 9:00	4.00	10.00	7.01	SDC 12:05	7.00	BJ 15:15	7.01	11157	11152	11316
2/1/18	BJ 12:40	4.00	10.00	7.02							
2/5/18	DMP 7:00	4.00	10.00	7.03	BJ 12:40	7.02					
2/6/18	BJ 9:00	4.00	10.00	7.02							
2/6/18	SDC 13:20	4.00	10.00	7.02							
2/7/18	BJ 9:30	4.00	10.00	7.01	BJ 12:30	7.01					
2/8/18	BJ 10:00	4.00	10.00	7.02	SDC 11:50	7.01					
2/9/18	BJ 8:30	4.00	10.00	7.02	BJ 12:40	7.02					
2/12/18	JW 9:40	4.00	10.00	7.02	SDC 13:45	7.04					
2/13/18	SDC 9:50	4.00	10.00	7.01	SDC 14:40	7.00					
2/14/18	DMP 7:00	4.00	10.00	7.03	SDC 15:15	7.02					
2/15/18	DMP 7:00	4.00	10.00	7.02	SDC 15:20	7.01					
2/16/18	DMP 7:00	4.00	10.00	7.03	SDC 14:20	7.02					
2/20/18	DMP 7:00	4.00	10.00	7.02	BJ 13:40	7.03					
2/21/18	BJ 8:30	4.00	10.00	7.03							
2/22/18	JW 8:15	4.00	10.00	7.02	SDC 11:50	7.07					
2/23/18	BJ 9:00	4.00	10.00	7.03	BJ 11:30	7.03					
2/26/18	JW 7:30	4.00	10.00	7.02	BJ 12:40	6.99					
2/27/18	BJ 10:00	4.00	10.00	7.03	12:00	7.01					
2/28/18	DMP 6:45	4.00	10.00	7.02	BJ 12:00	7.03					
3/1/18	DMP 7:00	4.00	10.00	7.01	DMP 12:05	7.01					

Calibrate using pH 4.0 and pH 10.0/Read and record pH 7.0(the pH 7.0 must agree within ±0.1 pH units)
When using the pH meter more for analysis and more than 3 hours has passed calibration, read and record pH 7.0
If pH 7.0 is off by ± 0.2 units, re-calibrate using the pH 4.0 and pH 10.0 buffers.

8022605 0828

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-273069

Prepared By: Trivedi, Beena	Department: WetChem	ApprovedBy: janee
Description: KHP LCS	BatchNumber:	ApproveDate: 02/10/18
Prep Date: 2/8/2018	Concentration: 300 ppm	Checked: Yes
Expiration Date: 8/7/2018	Final Volume: 2000 ml	

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
5981	POTASSIUM HYDROGEN PHTHALATE	600 mg	NEAT	
	DI WATER FILL TO THE VOLUME			

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 5981

Description
POTASSIUM HYDROGEN PHTHALATE

ApprovedBy: jean
ApproveDate: 05/24/11
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
FISHER	P243-500	101727	05/24/11	05/31/21	Revolus, Jean	1	500g	NEAT	

8022605 0830

Hampton-Clarke, Inc.

REACTIVE SULFIDE ANALYSIS DATA SHEET

(Method: SW-846, 7.3)

Analyst: Jmp Batch Number: 1130 Date 2/28/18

Sample ID	Volume Titrated (ml)	Iodine Volume (ml)	Titrant Volume (ml)	Comments
Std.	100	10	6.0	
MS AD 02774-008			5.7	
MSD ↓ -008			5.7	
Method Blank			9.9	
LCS			5.8	
1. AD 02774-008			9.8	
2. -010			9.7	
3. -012			9.9	
4. -014			9.6	
5. AD 02798-002			9.56	
6. -004			9.9	
7. -006			9.7	
8. -008			9.9	
9. -010			9.8	
10. -012			9.6	
11. -014			9.9	
12. -016			9.8	
13. AD 02799-002			9.9	
14. AD 02806-002			9.7	
15. AD 02807-002			9.8	
16.				
17.				
18.				
19.				
20.				

Standard	Lot #:
1:1 HCL	V- 267687
Starch Indicator	V- 108835
STD Conc. 16	V- 11257
0.025N Iodine	V- 10944
0.025 N $Na_2S_2O_3$	V- 11267
LCS / MS / MSD	V- 274576

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-267687

Prepared By: Patel, Jessica
Description: 1:1 HCl
Prep Date: 11/21/2017
Expiration Date: 5/20/2018
Department: Metals
BatchNumber:
Concentration: Reagent reag
Final Volume: 1000 ml
ApprovedBy: janee
ApproveDate: 11/27/17
Checked: Yes

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
	DI WATER FILL TO THE VOLUME	500 ml		
11243	hydrochloric acid	500 ml	neat neat	

Veritech Lot Number: V-274545

Prepared By: Trivedi, Beena
Description: 0.25 N NaOH
Prep Date: 2/28/2018
Expiration Date: 8/27/2018
Department: WetChem
BatchNumber:
Concentration: 0.25 n
Final Volume: 6000 ml
ApprovedBy: JW
ApproveDate: 3/5/18
Checked: No

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
10791	Sodium hydroxide pellets	60 g	neat neat	
	DI WATER FILL TO THE VOLUME			

Veritech Lot Number: V-274546

Prepared By: Trivedi, Beena
Description: 0.01N H2SO4
Prep Date: 2/28/2018
Expiration Date: 8/27/2018
Department: WetChem
BatchNumber:
Concentration: 0.01 n
Final Volume: 6000 ml
ApprovedBy:
ApproveDate:
Checked: No

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
	DI WATER FILL TO THE VOLUME			
10902	sulfuric acid	1.8 ml	neat neat	

Veritech Lot Number: V-274576

Prepared By: Patel, Jessica
Description: 16 ppm Sulfide
Prep Date: 2/28/2018
Expiration Date: 2/28/2018
Department: WetChem
BatchNumber:
Concentration: 16 ppm
Final Volume: 100 ml
ApprovedBy:
ApproveDate:
Checked: No

Veritech Lot# /Rec#	Lot Description	Amount Used	Conc of Std	Final Conc
11257	1000 ppm Sulfide Std (Danger)	1.6 ml	1000 ppm	16 ppm
	DI WATER FILL TO THE VOLUME			

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 10791

Description
Sodium hydroxide pellets

ApprovedBy: shiamala
ApproveDate: 03/17/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
EMD Millipore	LS-1559318	b1357069 639	03/09/17	09/30/19	Wonge, Janee	1	12 kg	neat	neat

Veritech Control/Receipt Number: 10902

Description
sulfuric acid

ApprovedBy: shiamala
ApproveDate: 07/14/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
fisher	A510-P2`12	3116090	04/24/17	11/02/19	Lopez, Jose	8	2.5L	neat	neat

Veritech Control/Receipt Number: 11243

Description
hydrochloric acid

ApprovedBy: jean
ApproveDate: 10/24/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
J.T.Baker	9530-33	183197	10/24/17	08/14/22	Lopez, Jose	11	2.5L	neat	neat

Veritech Control/Receipt Number: 11257

Description
1000 ppm Sulfide Std (Danger)

ApprovedBy: janee
ApproveDate: 11/01/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Absolute Standar	54139	100417	11/01/17	10/04/20	Wonge, Janee	24	20	1000	ppm

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 10835

Description
Starch Indicator, 1%

ApprovedBy: janee
ApproveDate: 08/01/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Ricca	8050-32	2702B38	03/17/17	02/28/19	Wonge, Janee	3	1L	1	%

Veritech Control/Receipt Number: 10944

Description
Iodine 0.025 N

ApprovedBy: janee
ApproveDate: 06/27/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Ricca	3975-32	2703B18	05/11/17	03/31/18	Wonge, Janee	4	1 L	0.025	N

Veritech Control/Receipt Number: 11267

Description
Sodium Thiosulfate (0.025 N)

ApprovedBy: janee
ApproveDate: 11/08/17
Checked: Yes

Manufacturer	Catalog Num:	Lot Num:	Date Rec:	Exp Date:	Rec By:	Num of Cont	Volume /Cont	Conc:	Units:
Lab Chem	LC25020	G275-06	11/08/17	10/05/18	Wonge, Janee	8	1 L	0.025	N

8022605 0834

Wet Chemistry Data
Preparation and Distillation Logbook Data

8022605 0835

Hampton-Clarke

REACTIVE DISTILLATION DATA SHEET

LACHAT Micro Dist Unit:_____ BATCH No. 1130

Balance ID: 031

Pipette ID:_____

Laboratory Sample No.	Sample Wt (g)	Final Vol. (mL)	Date	Distilled By
MB	10	250	2/28/18	JMP
LCS *				
MS * AD 02774-008				
MSD * -008				
1. -008				
2. -010				
3. -012				
4. -014				
5. AD 02798-002				
6. -004				
7. -006				
8. -008				
9. -010				

Laboratory Sample No.	Sample Wt (g)	Final Vol. (mL)	Date	Distilled By
10. AD 02798-012	10	250	2/28/18	JMP
11. -014				
12. -016				
13. AD 02799-002				
14. AD 02806-002				
15. AD 02807-002				
16.				
17.				
18.				
19.				
20.				

Spike Lot #
V- 274561

Reagent	Lot #:
0.25N NaOH	V- 274545

Reagent	Lot #:
0.01 H_2SO_4	V- 274546

* LCS, MS, MSD – post spiked

Hampton-Clarke

REACTIVE DISTILLATION DATA SHEET

LACHAT Micro Dist Unit: _____ BATCH No. 1130

Balance ID: 031

Pipette ID: _____

Laboratory Sample No.	Sample Wt (g)	Final Vol. (mL)	Date	Distilled By
MB	10	250	2/28/18	JMP
LCS *				
MS * AD 02774-008				
MSD * -008				
1. -008				
2. -010				
3. -012				
4. -014				
5. AD 02798-002				
6. -004				
7. -006				
8. -008				
9. -010				

Laboratory Sample No.	Sample Wt (g)	Final Vol. (mL)	Date	Distilled By
10. AD 02798-012	10	250	2/28/18	JMP
11. -014				
12. -016				
13. AD 02799-002				
14. AD 02806-002				
15. AD 02807-002				
16.				
17.				
18.				
19.				
20.				

Spike Lot #
V- 274561

Reagent	Lot #:
0.25N NaOH	V- 274545

Reagent	Lot #:
0.01 H_2SO_4	V- 274546

* LCS, MS, MSD – post spiked

Hampton-Clarke
Analytical & Field Services

Last Page of Report

ATTACHMENT E

Data Usability Summary Reports

1 Larkin Plaza
2nd Floor
Yonkers, NY 10701

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Data Usability Summary Report

Site: Former BICC Cables Site		Case Number: C360051
SDG Number(s): AD02764	Date Rec'd by Lab: 02/22/2018	Lab Report Date: 03/26/2018
Reviewed by: Brian Kelley		Date Reviewed: 04/13/2018

Number of samples of each matrix in data package: _8__ water _0_ soil
Analyses requested: ☑ Volatile organics ☐ Semivolatile organics ☐ Metals/cyanide ☑ PCBs ☐ Pesticides / Herbicides

		Yes	No	NA
1.	Is the data package complete as defined under the requirements for NYSDEC ASP Category B deliverables?	☑	☐	
	Exceptions:	☐ Details attached		
	Actions:	☐ Details attached		
2.	Have all holding times been met (see QA/QC Plan)?	☑	☐	
	Exceptions:			
	Actions/effect on results:	☐ Details attached		
3.	Do all the QC data fall within the protocol required limits and specifications? (blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls, sample data)	☐	☑	
	Reported exceptions: See page 2 of lab report	☑ Details attached		
	Actions/effect on results:	☐ Details attached		
4.	Have all of the data been generated using established and agreed upon analytical protocols? Test method(s): 8260C; 8082A;	☑	☐	
	Reported exceptions:	☐ Details attached		
	Actions/effect on results:	☐ Details attached		
5.	Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms?	☑	☐	☐
	Exceptions:	☐ Details attached		
	Actions/effect on results:	☐ Details attached		
6.	Have the correct data qualifiers been used by the laboratory?	☑	☐	
	Exceptions:	☐ Details attached		

Specific issues reported by laboratory (check all that apply):

☐ Sample(s) reanalyzed at dilution	☐ Details attached
☐ Blank contamination	☐ Details attached
☐ Matrix effects	☐ Details attached
☐ Other:	☐ Details attached

Changes by reviewer (attach markup of data form):

☐ Data qualifiers added/changed	☐ Details attached
☐ Some data rejected (R)	☐ Details attached

Data Usability Summary Report

Site: Former BICC Cables Site		Case Number: C360051
SDG Number(s): AD02799	Date Rec'd by Lab: 02/26/2018	Lab Report Date: 03/23/2018
Reviewed by: Brian Kelley		Date Reviewed: 04/13/2018

Number of samples of each matrix in data package: _2__ water _0_ soil
Analyses requested: ☑Volatile organics ☑ Semivolatile organics ☑ Metals/cyanide ☑ PCBs ☐ Pesticides / Herbicides

1.	Is the data package complete as defined under the requirements for NYSDEC ASP Category B deliverables?	**Yes** ☑	No ☐
	Exceptions:	☐ Details attached	
	Actions:	☐ Details attached	
2.	Have all holding times been met (see QA/QC Plan)?	**Yes** ☑	No ☐
	Exceptions: Sample AD02799-002 was received and analyzed outside the 15 minute hold time for pH		
	Actions/effect on results:	☐ Details attached	
3.	Do all the QC data fall within the protocol required limits and specifications? (blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls, sample data)	**Yes** ☐	No ☑
	Reported exceptions: See pages 2 and 3 of lab report	☑ Details attached	
	Actions/effect on results:	☐ Details attached	
4.	Have all of the data been generated using established and agreed upon analytical protocols? Test method(s): 8260C; 8270D; 8082A; 8015D; 6010C/6020A/7470A; SW846 7.3.3; 1010; SM4500-H+B-00; SW846 7.3.4	**Yes** ☑	No ☐
	Reported exceptions: Sample AD02799-002 was analyzed for reactivity using SW-846 7.3. SW-846 7.3 is not a NELAP accredited parameter.	☑ Details attached	
	Actions/effect on results:	☐ Details attached	
5.	Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms?	**Yes** ☑	No ☐ NA ☐
	Exceptions:	☐ Details attached	
	Actions/effect on results:	☐ Details attached	
6.	Have the correct data qualifiers been used by the laboratory?	**Yes** ☑	No ☐
	Exceptions:	☐ Details attached	
	Specific issues reported by laboratory (check all that apply):		
	☐ Sample(s) reanalyzed at dilution	☐ Details attached	
	☐ Blank contamination	☐ Details attached	
	☐ Matrix effects	☐ Details attached	
	☐ Other:	☐ Details attached	
	Changes by reviewer (attach markup of data form):		
	☐ Data qualifiers added/changed	☐ Details attached	
	☐ Some data rejected (R)	☐ Details attached	

APPENDIX E

Operation and Maintenance Documentation



Photograph 1a – Sink hole observed adjacent to the Existing Concrete and Timber Bulkhead. View to the east.



Photograph 2a – Sink hole observed adjacent to the Existing Concrete and Timber Bulkhead. View to the north.



Photograph 1b – Sink hole adjacent to the Existing Concrete and Timber Bulkhead repaired. View to the east.



Photograph 2b – Sink hole adjacent to the Existing Concrete and Timber Bulkhead repaired. View to the north.



Photograph 3a – Asphalt pavement cover system weathering/loss of integrity observed in Demolition/Below Bldg. Area. View to the southwest.



Photograph 4a – Asphalt pavement cover system weathering/loss of integrity observed in Demolition/Below Bldg. Area. View to the northeast.



Photograph 3b – Asphalt pavement cover system repairs completed in Demolition/Below Bldg. Area. View to the southwest.



Photograph 4b – Asphalt pavement cover system repairs completed in Demolition/Below Bldg. Area. View to the northeast.



Photograph 5a – Asphalt pavement cover system weathering/loss of integrity observed in Demolition/Below Bldg. Area. View to the west.



Photograph 5b – Asphalt pavement cover system repairs completed in Demolition/Below Bldg. Area. View to the west.



Photograph 6a – Asphalt pavement cover system damage/loss of integrity observed in Demolition/Below Bldg. Area. View to the south.



Photograph 6b – Asphalt pavement cover system repairs completed in Demolition/Below Bldg. Area. View to the southwest.



Photograph 7a – Asphalt pavement cover system weathering/loss of integrity observed in the North Yard. Sediment build up also observed. View to the south.



Photograph 7b – Asphalt pavement cover system repairs completed in the North Yard. View to the south.



Photograph 9a – Soil cover system area (above the asphalt pavement cover system) weathering observed in the South Yard. View to the west.



Photograph 9b – Soil cover area in the South Yard regraded to promote stormwater runoff. View to the west.

APPENDIX F

Excavation Work Plan Compliance Documentation

Caporizzo, Scott

From: Hubicki, Matthew S (DEC) <matthew.hubicki@dec.ny.gov>
Sent: Tuesday, August 21, 2018 8:48 AM
To: Caporizzo, Scott
Cc: Israel, Camila; Salinas, L. Miguel; Gorelick, Hindy; Mandelbaum, Jack; DiGerolamo, Lisa; Deyette, Scott (DEC)
Subject: RE: Former BICC Cables Site (NYSDEC Site No. C360051): Existing Fill TP-20 Delineation Sampling Letter Report

Scott – I've reviewed the step-out test borings for BICC Cables Site No. C360051 - TP-20, and you can proceed with off-site disposal of that area around TP-20 based on these results. No further sampling required.

Please remember any material imported to the site must be documented and pre-approved by the Department.

Thank you for attention in this matter.
Matt

Matthew Hubicki
Project Manager, Remedial Bureau C
Division of Environmental Remediation

New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014
P: 518-402-9605 | F: 518-402-9679 | matthew.hubicki@dec.ny.gov

www.dec.ny.gov |

From: Caporizzo, Scott [mailto:scaporizzo@psands.com]
Sent: Monday, August 20, 2018 10:22 PM
To: Hubicki, Matthew S (DEC) <matthew.hubicki@dec.ny.gov>
Cc: Israel, Camila <cIsrael@psands.com>; Salinas, L. Miguel <lsalinas@psands.com>; Gorelick, Hindy <HGorelick@extell.com>; Mandelbaum, Jack <JMandelbaum@extell.com>; DiGerolamo, Lisa <ldigerolamo@psands.com>; Deyette, Scott (DEC) <scott.deyette@dec.ny.gov>
Subject: RE: Former BICC Cables Site (NYSDEC Site No. C360051): Existing Fill TP-20 Delineation Sampling Letter Report

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Matt –

Attached for your review is the Former BICC Cables Site (NYSDEC Site No. C360051) Existing Fill TP-20 Delineation Sampling Letter Report. Based on PS&S review of the delineation results, the non-compliant materials representative of TP-20 have been delineated. With NYSDEC concurrence, PS&S will proceed with off-site disposal of TP-20 representative materials. Please refer to the attached Letter Report for additional information.

The Extell team appreciates your review of this information. Feel free to call/email me with any questions.

Regards,

ELECTRONIC MAIL SUBMISSION

August 20, 2018

Mr. Matthew Hubicki
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7017
Via email to matthew.hubicki@dec.ny.gov

Education
Energy Utility
Hospitality
Public Sector
Real Estate
Science & Technology

RE: *Former BICC Cables Site (Extell Waterfront Development)*
One Point Street
Yonkers, New York, 10701
BCP Site No. C360051
Existing Fill TP-20 Delineation Sampling Letter Report

Dear Mr. Hubicki,

1.0 Introduction

On behalf of Extell Waterfront Development, LLC (Extell), Paulus, Sokolowski and Sartor Engineering, PC (PS&S) has prepared this Existing Fill TP-20 Delineation Sampling Letter Report (Letter Report) to present the sampling and analysis of SVOC delineation sampling at test pit location TP-20. As summarized in the Existing Fill Sampling Report, dated May 25, 2018, a composite sample collected at TP-20 reported SVOCs which exceeded the lesser of the New York State Restricted Residential Use Soil Cleanup Objectives (SCOs) or Protection of Groundwater SCOs (the applicable regulatory criteria for imported fill (6 NYCRR 375-6.7(d)(1)(b)), as identified in the Site's SMP). PS&S performed delineation sampling in accordance with the NYSDEC-approved Existing Fill TP-20 Delineation Sampling Work Plan, dated July 19, 2018 (Work Plan).

2.0 Existing Fill TP-20 Delineation Sampling Results

The Existing Fill Sample Location Map (Attachment A) depicts the TP-20 delineation sample locations. Delineation samples were collected on August 2, 2018 via test pits at 5 foot off-sets (to the north, south, west, and east) from the original TP-20 sample location. A composite sample was collected across the vertical profile of each test pit as the excavation was extended from the current Site grade to the top of the existing asphalt pavement cover system. Three to five discrete samples collected within each test pit comprised a composite sample for that test pit. The composite samples were submitted to Alpha Analytical, an ELAP-certified laboratory, and analyzed for SVOCs only, as previously confirmed with NYSDEC. Sample results were compared to the lesser of the New York State Restricted Residential Use Soil Cleanup Objectives (SCOs) or Protection of Groundwater SCOs, which is the applicable regulatory criteria for imported fill (6 NYCRR 375-6.7(d)(1)(b)), as identified in the Site's SMP.

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The SVOC results of all four delineation samples (TP-20-SVOC-W5, TP-20-SVOC-E5, TP-20-SVOC-N5, and TP-20-SVOC-S5) met the lower of Restricted Residential Use or Protection of Groundwater Soil Cleanup Objectives (SCOs). Sample result summary tables are provided as Attachment B and the full analytical lab reports are provided as Attachment D.

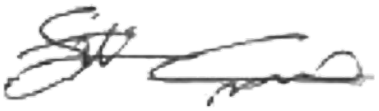
Work zone real-time monitoring for VOCs and particulates (i.e., dust) was conducted during test pit excavation activities. No VOC or particulate levels above background were reported due to Work Plan activities. Test pit excavation materials were also visually assessed for compliance and field screened with a photo-ionization detector (PID). No elevated PID readings were recorded during the sampling event. A photographic log of the test pits are provided as Attachment C.

3.0 Conclusions

Based on PS&S review of the Work Plan results, the non-compliant materials representative of TP-20 have been delineated. With NYSDEC concurrence, PS&S will proceed with off-site disposal of TP-20 representative materials. Prior to off-site disposal, appropriate documentation (e.g., disposal facility acceptance letter) will be provided to NYSDEC for review and approval.

PS&S appreciates your review of this Report. Should you have any questions or require additional information, please contact me at 914-226-3722 or at scaporizzo@psands.com.

Very truly yours,



Scott P. Caporizzo, E.I.T.
PAULUS, SOKOLOWSKI AND SARTOR ENGINEERING, PC

Attachments: Attachment A – Existing Fill Sample Location Map
Attachment B - Sample Result Summary Tables
Attachment C – Test Pit Photographic Log
Attachment D – Full Analytical Laboratory Report, Alpha Analytical

CC: George Heitzman, NYSDEC; David Crosby, NYSDEC; Scott Deyette, NYSDEC; Jack Mandelbaum, Extell; Hindy Gorelick, Extell; M. Salinas, PS&S; J. Szeman, PS&S;



INSET A:
PROPOSED STEP-OUT SAMPLE LOCATIONS
SCALE: 1" = 10'

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

REV. / ISSUE	DATE	DESCRIPTION

CONSULTANT

ORIENTATION / KEY PLAN

LEGEND:

- FILL MATERIAL SAMPLING GRID LINE
- TP-31 — TEST PIT LOCATIONS
- LIMITS OF OBSERVED FILL MATERIAL
- 31 — FILL MATERIAL SAMPLING GRID IDENTIFICATION
- 155' x 50' x 3.5' (1) — GRID DIMENSIONS (LxWxD) NO. OF LAYERS
- LOCATION & LIMITS OF INSET A

CLIENT

EXTELL WATERFRONT DEVELOPMENT, LLC

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
67A MOUNTAIN BLVD EXT.
P.O. BOX 4039
WARREN, NJ 07059
PHONE: (732) 560-9700
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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PROJECT

EXTELL ON THE HUDSON
FORMER BICC
POINT STREET LANDING

CITY OF YONKERS, WESTCHESTER COUNTY, NEW YORK

SHEET TITLE

ATTACHMENT A
EXISTING FILL
SAMPLE LOCATION MAP

PROJECT NO.:	05697-006	DRAWN BY:	NV
SCALE:	AS SHOWN	CHECKED BY:	SC
DATE:	5/17/2018	SHEET	1 OF 1

SHEET NO.

FIGURE-1

FILE NAME: N:\prints and Plots\Data\Projects\05697\006\GIS\ArcGIS\DOCUMENTS\MXD\05697-006-GIS-FIG1.mxd 5/16/2018 - 5:17:13 PM - USER: nvincent

Attachment B
TP-20 SVOC Delineation Sample Results Summary Table
Former BICC Cables Site

				SAMPLE ID:	TP-20_COMP			TP-20-SVOC-W5				TP-20-SVOC-E5				TP-20-SVOC-N5				TP-20-SVOC-S5			
				LAB ID:	L1815263-21			L1830036-01				L1830036-03				L1830036-04				L1830036-05			
				COLLECTION DATE:	4/30/2018			8/2/2018				8/2/2018				8/2/2018				8/2/2018			
				SAMPLE MATRIX:	SOIL			SOIL				SOIL				SOIL				SOIL			
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	NY-RESGW (mg/kg)	NY-RESRR (mg/kg)	Conc	Q	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
SEMIVOLATILE ORGANICS BY GC/MS																							
Acenaphthene	83-32-9	98	98	100	16		0.18	ND		0.14	0.018	ND		0.14	0.018	ND		0.14	0.018	ND		0.14	0.019
Hexachlorobenzene	118-74-1	1.2	3.2	1.2	ND		0.2	ND		0.11	0.02	ND		0.11	0.02	ND		0.11	0.02	ND		0.11	0.02
1,2-Dichlorobenzene	95-50-1	1.1	1.1	100	ND		0.32	ND		0.18	0.032	ND		0.18	0.032	ND		0.18	0.032	ND		0.18	0.032
1,3-Dichlorobenzene	541-73-1	2.4	2.4	49	ND		0.31	ND		0.18	0.031	ND		0.18	0.03	ND		0.18	0.031	ND		0.18	0.031
1,4-Dichlorobenzene	106-46-7	1.8	1.8	13	ND		0.31	ND		0.18	0.031	ND		0.18	0.031	ND		0.18	0.031	ND		0.18	0.031
Fluoranthene	206-44-0	100	1000	100	52		0.2	0.17		0.11	0.02	0.15		0.11	0.02	0.14		0.11	0.02	0.13		0.11	0.021
Naphthalene	91-20-3	12	12	100	14		0.22	ND		0.18	0.022	ND		0.18	0.022	ND		0.18	0.022	ND		0.18	0.022
Benzo(a)anthracene	56-55-3	1	1	1	24		0.2	0.097	J	0.11	0.02	0.084	J	0.11	0.02	0.091	J	0.11	0.02	0.072	J	0.11	0.02
Benzo(a)pyrene	50-32-8	1	22	1	19		0.44	0.11	J	0.14	0.044	0.096	J	0.14	0.043	0.096	J	0.14	0.044	0.076	J	0.14	0.044
Benzo(b)fluoranthene	205-99-2	1	1.7	1	23		0.3	0.13		0.11	0.03	0.11		0.11	0.03	0.11		0.11	0.03	0.082	J	0.11	0.03
Benzo(k)fluoranthene	207-08-9	1.7	1.7	3.9	8		0.28	0.058	J	0.11	0.028	0.036	J	0.11	0.028	0.035	J	0.11	0.029	0.031	J	0.11	0.029
Chrysene	218-01-9	1	1	3.9	21		0.18	0.095	J	0.11	0.018	0.086	J	0.11	0.018	0.082	J	0.11	0.019	0.067	J	0.11	0.019
Acenaphthylene	208-96-8	100	107	100	ND		0.28	ND		0.14	0.028	ND		0.14	0.027	ND		0.14	0.028	ND		0.14	0.028
Anthracene	120-12-7	100	1000	100	22		0.35	ND		0.11	0.035	ND		0.11	0.035	ND		0.11	0.035	ND		0.11	0.035
Benzo(ghi)perylene	191-24-2	100	1000	100	11		0.21	0.069	J	0.14	0.021	0.08	J	0.14	0.021	0.069	J	0.14	0.021	0.058	J	0.14	0.021
Fluorene	86-73-7	100	386	100	13		0.17	ND		0.18	0.017	ND		0.18	0.017	ND		0.18	0.017	ND		0.18	0.017
Phenanthrene	85-01-8	100	1000	100	74	E	0.22	0.077	J	0.11	0.022	0.072	J	0.11	0.022	0.076	J	0.11	0.022	0.076	J	0.11	0.022
Dibenzo(a,h)anthracene	53-70-3	0.33	1000	0.33	2.5		0.21	ND		0.11	0.021	ND		0.11	0.02	ND		0.11	0.021	ND		0.11	0.021
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	8.2	0.5	12		0.25	0.073	J	0.14	0.025	0.07	J	0.14	0.025	0.071	J	0.14	0.025	0.061	J	0.14	0.025
Pyrene	129-00-0	100	1000	100	43		0.18	0.17		0.11	0.018	0.16		0.11	0.018	0.17		0.11	0.018	0.13		0.11	0.018
Dibenzofuran	132-64-9	59	210	59	12		0.17	ND		0.18	0.017	ND		0.18	0.017	ND		0.18	0.017	ND		0.18	0.017
Pentachlorophenol	87-86-5	0.8	0.8	6.7	ND		0.39	ND		0.14	0.039	ND		0.14	0.039	ND		0.14	0.039	ND		0.14	0.04
Phenol	108-95-2	0.33	0.33	100	ND		0.27	ND		0.18	0.027	ND		0.18	0.027	ND		0.18	0.027	ND		0.18	0.027
2-Methylphenol	95-48-7	0.33	0.33	100	ND		0.28	ND		0.18	0.028	ND		0.18	0.028	ND		0.18	0.028	ND		0.18	0.028
3-Methylphenol/4-Methylphenol	108-39-4	0.33	0.33	100	0.4	J	0.28	ND		0.26	0.028	ND		0.26	0.028	ND		0.26	0.028	ND		0.26	0.028
GENERAL CHEMISTRY																							
Solids, Total	NONE				91.8		NA	92.3		0.1	NA	92.9		0.1	NA	91.3		0.1	NA	91		0.1	NA

* Comparison is not performed on parameters with non-numeric criteria.

NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.
NY-RESGW: New York NYCRR Part 375 Groundwater Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.
NY-RESRR: New York NYCRR Part 375 Restricted-Residential Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

FORMER BICC CABLES SITE (NYSDEC Site No. C360051) – AUGUST 2ND, 2018 TEST PIT PHOTOLOG TP-20 DELINEATION



Photograph 1 – Test Pit TP-20. View to the north (original photograph from May 2018 test pitting field activities).



Photograph 2 – Test Pit TP-20-SVOC-W5. Underlying asphalt cover system encountered at approximately 6 ft bgs.



Photograph 3 – Test Pit TP-20-SVOC-W5 excavated materials. View to the north.



Photograph 4 – Test Pit TP-20-SVOC-E5. Underlying asphalt cover system encountered at approximately 5 ft bgs.



Photograph 5 – Test Pit TP-20-SVOC-E5 excavated materials. View to the southwest.



Photograph 6 – Test Pit TP-20-SVOC-N5. Underlying asphalt cover system encountered at approximately 5.5 ft bgs.



Photograph 7 – Test Pit TP-20-SVOC-N5 excavated materials. View to the west.



Photograph 8 – Test Pit TP-20-SVOC-S5. Underlying asphalt cover system encountered at approximately 5.5 ft bgs.



Photograph 9 – Test Pit TP-20-SVOC-S5 excavated materials. View to the southeast.

JOB: L1830036 REPORT STYLE: Data Usability Report

0010: Alpha Analytical Report Cover Page - OK
0015: Sample Cross Reference Summary - OK
0060: Case Narrative - OK
0100: Volatiles Cover Page - OK
0110: Volatiles Sample Results - OK
0120: Volatiles Method Blank Report - OK
0130: Volatiles LCS Report - OK
0180: Semivolatiles Cover Page - OK
0190: Semivolatiles Sample Results - OK
0200: Semivolatiles Method Blank Report - OK
0210: Semivolatiles LCS Report - OK
0400: Petroleum Cover Page - OK
0410: Petroleum Sample Results - OK
0420: Petroleum Method Blank Report - OK
0430: Petroleum LCS Report - OK
0450: Petroleum Matrix Spike Report - OK
0460: Petroleum Duplicate Report - OK
0700: PCBs Cover Page - OK
0710: PCBs Sample Results - OK
0720: PCBs Method Blank Report - OK
0730: PCBs LCS Report - OK
0900: Pesticides Cover Page - OK
0910: Pesticides Sample Results - OK
0920: Pesticides Method Blank Report - OK
0930: Pesticides LCS Report - OK
1005: Metals Sample Results - OK
1010: Metals Method Blank Report - OK
1020: Metals LCS Report - OK
1040: Metals Matrix Spike Report - OK
1050: Metals Duplicate Report - OK
1180: Inorganics Cover Page - OK
1190: Ignitability Results - OK
1200: Wet Chemistry Sample Results - OK
1210: Wet Chemistry Method Blank Report - OK
1220: Wet Chemistry LCS Report - OK
1240: Wet Chemistry Matrix Spike Report - OK
1250: Wet Chemistry Duplicate Report - OK
5100: Sample Receipt & Container Information Report - OK
5200: Glossary - OK

Too many rows. We are stopping the contents here.

ANALYTICAL REPORT

Lab Number:	L1830036
Client:	PS&S Engineering, Inc. 1 Larkin Plaza Second Floor Yonkers, NY 10701
ATTN:	Scott Caporizzo
Phone:	(914) 266-3722
Project Name:	FORMER BICC
Project Number:	056970009
Report Date:	08/10/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1830036-01	TP-20-SVOC-W5	SOIL	YONKERS, NY	08/02/18 08:10	08/02/18
L1830036-02	TP-20-SVOC-X5	SOIL	YONKERS, NY	08/02/18 08:10	08/02/18
L1830036-03	TP-20-SVOC-E5	SOIL	YONKERS, NY	08/02/18 08:30	08/02/18
L1830036-04	TP-20-SVOC-N5	SOIL	YONKERS, NY	08/02/18 08:50	08/02/18
L1830036-05	TP-20-SVOC-S5	SOIL	YONKERS, NY	08/02/18 09:00	08/02/18
L1830036-06	TP-20-SVOC-W10	SOIL	YONKERS, NY	08/02/18 10:20	08/02/18
L1830036-07	TP-20-SVOC-E10	SOIL	YONKERS, NY	08/02/18 10:30	08/02/18
L1830036-08	TP-20-SVOC-N10	SOIL	YONKERS, NY	08/02/18 10:40	08/02/18
L1830036-09	TP-20-SVOC-S10	SOIL	YONKERS, NY	08/02/18 10:50	08/02/18
L1830036-10	FB-01	WATER	YONKERS, NY	08/02/18 09:30	08/02/18
L1830036-11	WC-01	SOIL	YONKERS, NY	08/02/18 09:15	08/02/18
L1830036-12	TRIP BLANK	WATER	YONKERS, NY	08/02/18 00:00	08/02/18

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	FORMER BICC	**Lab Number:**	L1830036
Project Number:	056970009	**Report Date:**	08/10/18

Case Narrative (continued)

Report Submission

August 10, 2018: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The analyses performed were specified by the client.

TCLP Semivolatiles

The WG1144032-2/-3 LCS/LCSD recoveries, associated with L1830036-11, are below the acceptance criteria for pyridine (1%/6%); however, it has been identified as a "difficult" analyte. The results of the associated sample are reported.

Total Metals

L1830036-11: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

Cyanide, Total

The WG1143080-3 LCSD recovery (79%), associated with L1830036-11, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 08/10/18

ORGANICS

VOLATILES

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-11
Client ID: WC-01
Sample Location: YONKERS, NY

Date Collected: 08/02/18 09:15
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/08/18 14:21
Analyst: MKS
Percent Solids: 92%
TCLP/SPLP Ext. Date: 08/07/18 15:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Volatiles by EPA 1311 - Westborough Lab						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	124		70-130
dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-11
Client ID: WC-01
Sample Location: YONKERS, NY

Date Collected: 08/02/18 09:15
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 08/08/18 04:42
Analyst: NLK
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.0	1.8	1
1,1-Dichloroethane	ND		ug/kg	0.80	0.12	1
Chloroform	ND		ug/kg	1.2	0.11	1
Carbon tetrachloride	ND		ug/kg	0.80	0.18	1
1,2-Dichloropropane	ND		ug/kg	0.80	0.10	1
Dibromochloromethane	ND		ug/kg	0.80	0.11	1
1,1,2-Trichloroethane	ND		ug/kg	0.80	0.21	1
Tetrachloroethene	ND		ug/kg	0.40	0.16	1
Chlorobenzene	ND		ug/kg	0.40	0.10	1
Trichlorofluoromethane	ND		ug/kg	3.2	0.56	1
1,2-Dichloroethane	ND		ug/kg	0.80	0.20	1
1,1,1-Trichloroethane	ND		ug/kg	0.40	0.13	1
Bromodichloromethane	ND		ug/kg	0.40	0.09	1
trans-1,3-Dichloropropene	ND		ug/kg	0.80	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	0.40	0.13	1
1,3-Dichloropropene, Total	ND		ug/kg	0.40	0.13	1
1,1-Dichloropropene	ND		ug/kg	0.40	0.13	1
Bromoform	ND		ug/kg	3.2	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.40	0.13	1
Benzene	ND		ug/kg	0.40	0.13	1
Toluene	ND		ug/kg	0.80	0.43	1
Ethylbenzene	ND		ug/kg	0.80	0.11	1
Chloromethane	ND		ug/kg	3.2	0.74	1
Bromomethane	ND		ug/kg	1.6	0.46	1
Vinyl chloride	ND		ug/kg	0.80	0.27	1
Chloroethane	ND		ug/kg	1.6	0.36	1
1,1-Dichloroethene	ND		ug/kg	0.80	0.19	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.11	1

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-11
Client ID: WC-01
Sample Location: YONKERS, NY
Date Collected: 08/02/18 09:15
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.40	0.11	1
1,2-Dichlorobenzene	ND		ug/kg	1.6	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	1.6	0.12	1
1,4-Dichlorobenzene	ND		ug/kg	1.6	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.6	0.16	1
p/m-Xylene	ND		ug/kg	1.6	0.45	1
o-Xylene	ND		ug/kg	0.80	0.23	1
Xylenes, Total	ND		ug/kg	0.80	0.23	1
cis-1,2-Dichloroethene	ND		ug/kg	0.80	0.14	1
1,2-Dichloroethene, Total	ND		ug/kg	0.80	0.11	1
Dibromomethane	ND		ug/kg	1.6	0.19	1
Styrene	ND		ug/kg	0.80	0.16	1
Dichlorodifluoromethane	ND		ug/kg	8.0	0.73	1
Acetone	62		ug/kg	8.0	3.8	1
Carbon disulfide	ND		ug/kg	8.0	3.6	1
2-Butanone	ND		ug/kg	8.0	1.8	1
Vinyl acetate	ND		ug/kg	8.0	1.7	1
4-Methyl-2-pentanone	ND		ug/kg	8.0	1.0	1
1,2,3-Trichloropropane	ND		ug/kg	1.6	0.10	1
2-Hexanone	ND		ug/kg	8.0	0.94	1
Bromochloromethane	ND		ug/kg	1.6	0.16	1
2,2-Dichloropropane	ND		ug/kg	1.6	0.16	1
1,2-Dibromoethane	ND		ug/kg	0.80	0.22	1
1,3-Dichloropropane	ND		ug/kg	1.6	0.13	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.40	0.10	1
Bromobenzene	ND		ug/kg	1.6	0.12	1
n-Butylbenzene	ND		ug/kg	0.80	0.13	1
sec-Butylbenzene	ND		ug/kg	0.80	0.12	1
tert-Butylbenzene	ND		ug/kg	1.6	0.09	1
o-Chlorotoluene	ND		ug/kg	1.6	0.15	1
p-Chlorotoluene	ND		ug/kg	1.6	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.4	0.80	1
Hexachlorobutadiene	ND		ug/kg	3.2	0.14	1
Isopropylbenzene	ND		ug/kg	0.80	0.09	1
p-Isopropyltoluene	ND		ug/kg	0.80	0.09	1
Naphthalene	0.61	J	ug/kg	3.2	0.52	1
Acrylonitrile	ND		ug/kg	3.2	0.92	1

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-11
Client ID: WC-01
Sample Location: YONKERS, NY
Date Collected: 08/02/18 09:15
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.80	0.14	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.6	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.6	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.6	0.15	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.6	0.27	1
1,4-Dioxane	ND		ug/kg	80	28.	1
p-Diethylbenzene	ND		ug/kg	1.6	0.14	1
p-Ethyltoluene	ND		ug/kg	1.6	0.31	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.6	0.15	1
Ethyl ether	ND		ug/kg	1.6	0.27	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.0	1.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	100		70-130

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-12
Client ID: TRIP BLANK
Sample Location: YONKERS, NY

Date Collected: 08/02/18 00:00
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/06/18 12:17
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-12
Client ID: TRIP BLANK
Sample Location: YONKERS, NY
Date Collected: 08/02/18 00:00
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-12
Client ID: TRIP BLANK
Sample Location: YONKERS, NY
Date Collected: 08/02/18 00:00
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	128		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	105		70-130

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/06/18 11:02
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1143432-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/06/18 11:02
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1143432-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/06/18 11:02
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1143432-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	100		70-130

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/07/18 20:45
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 11 Batch: WG1144207-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/07/18 20:45
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 11 Batch: WG1144207-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.14
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/07/18 20:45
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 11 Batch: WG1144207-5					
p-Chlorotoluene	ND		ug/kg	2.0	0.11
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	100	35.
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/08/18 11:15
Analyst: MKS
TCLP/SPLP Extraction Date: 08/07/18 15:40

Extraction Date: 08/07/18 15:40

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 11 Batch: WG1144232-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	127		70-130
dibromofluoromethane	97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1143432-3 WG1143432-4								
Methylene chloride	100		100		70-130	0		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	100		100		63-130	0		20
1,1,2-Trichloroethane	110		110		70-130	0		20
Tetrachloroethene	93		92		70-130	1		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	120		120		70-130	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	110		110		67-130	0		20
trans-1,3-Dichloropropene	110		110		70-130	0		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	100		100		54-136	0		20
1,1,2,2-Tetrachloroethane	110		110		67-130	0		20
Benzene	110		100		70-130	10		20
Toluene	100		100		70-130	0		20
Ethylbenzene	110		110		70-130	0		20
Chloromethane	110		100		64-130	10		20
Bromomethane	**140**	Q	130		39-139	7		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1143432-3 WG1143432-4								
Vinyl chloride	110		110		55-140	0		20
Chloroethane	**150**	Q	**140**	Q	55-138	7		20
1,1-Dichloroethene	96		93		61-145	3		20
trans-1,2-Dichloroethene	96		94		70-130	2		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	100		100		70-130	0		20
1,3-Dichlorobenzene	100		99		70-130	1		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	100		110		63-130	10		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	99		96		70-130	3		20
Dibromomethane	100		100		70-130	0		20
1,2,3-Trichloropropane	120		130		64-130	8		20
Acrylonitrile	120		130		70-130	8		20
Styrene	110		110		70-130	0		20
Dichlorodifluoromethane	67		65		36-147	3		20
Acetone	130		140		58-148	7		20
Carbon disulfide	97		95		51-130	2		20
2-Butanone	**140**	Q	**140**	Q	63-138	0		20
Vinyl acetate	**160**	Q	**170**	Q	70-130	6		20
4-Methyl-2-pentanone	100		110		59-130	10		20
2-Hexanone	120		130		57-130	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970009

Lab Number: L1830036

Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1143432-3 WG1143432-4								
Bromochloromethane	94		94		70-130	0		20
2,2-Dichloropropane	100		99		63-133	1		20
1,2-Dibromoethane	100		100		70-130	0		20
1,3-Dichloropropane	110		110		70-130	0		20
1,1,1,2-Tetrachloroethane	100		100		64-130	0		20
Bromobenzene	99		96		70-130	3		20
n-Butylbenzene	120		110		53-136	9		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	100		100		70-130	0		20
o-Chlorotoluene	110		100		70-130	10		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	87		90		41-144	3		20
Hexachlorobutadiene	86		82		63-130	5		20
Isopropylbenzene	110		100		70-130	10		20
p-Isopropyltoluene	100		100		70-130	0		20
Naphthalene	89		92		70-130	3		20
n-Propylbenzene	110		110		69-130	0		20
1,2,3-Trichlorobenzene	90		90		70-130	0		20
1,2,4-Trichlorobenzene	90		88		70-130	2		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20
1,4-Dioxane	76		96		56-162	**23**	Q	20
p-Diethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970009

Lab Number: L1830036

Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1143432-3 WG1143432-4								
p-Ethyltoluene	110		100		70-130	10		20
1,2,4,5-Tetramethylbenzene	100		98		70-130	2		20
Ethyl ether	110		110		59-134	0		20
trans-1,4-Dichloro-2-butene	130		**140**	Q	70-130	7		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	120		120		70-130
Toluene-d8	105		103		70-130
4-Bromofluorobenzene	105		104		70-130
Dibromofluoromethane	103		103		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 11 Batch: WG1144207-3 WG1144207-4								
Methylene chloride	86		87		70-130	1		30
1,1-Dichloroethane	92		93		70-130	1		30
Chloroform	96		98		70-130	2		30
Carbon tetrachloride	96		98		70-130	2		30
1,2-Dichloropropane	95		96		70-130	1		30
Dibromochloromethane	100		98		70-130	2		30
1,1,2-Trichloroethane	102		102		70-130	0		30
Tetrachloroethene	95		95		70-130	0		30
Chlorobenzene	93		94		70-130	1		30
Trichlorofluoromethane	98		98		70-139	0		30
1,2-Dichloroethane	99		100		70-130	1		30
1,1,1-Trichloroethane	96		98		70-130	2		30
Bromodichloromethane	99		101		70-130	2		30
trans-1,3-Dichloropropene	90		90		70-130	0		30
cis-1,3-Dichloropropene	98		100		70-130	2		30
1,1-Dichloropropene	98		99		70-130	1		30
Bromoform	100		100		70-130	0		30
1,1,2,2-Tetrachloroethane	105		104		70-130	1		30
Benzene	93		94		70-130	1		30
Toluene	92		93		70-130	1		30
Ethylbenzene	94		94		70-130	0		30
Chloromethane	86		83		52-130	4		30
Bromomethane	91		88		57-147	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 11 Batch: WG1144207-3 WG1144207-4								
Vinyl chloride	88		88		67-130	0		30
Chloroethane	92		92		50-151	0		30
1,1-Dichloroethene	90		91		65-135	1		30
trans-1,2-Dichloroethene	90		90		70-130	0		30
Trichloroethene	96		98		70-130	2		30
1,2-Dichlorobenzene	97		96		70-130	1		30
1,3-Dichlorobenzene	96		96		70-130	0		30
1,4-Dichlorobenzene	95		95		70-130	0		30
Methyl tert butyl ether	95		95		66-130	0		30
p/m-Xylene	95		95		70-130	0		30
o-Xylene	95		96		70-130	1		30
cis-1,2-Dichloroethene	94		94		70-130	0		30
Dibromomethane	99		102		70-130	3		30
Styrene	98		99		70-130	1		30
Dichlorodifluoromethane	82		80		30-146	2		30
Acetone	102		95		54-140	7		30
Carbon disulfide	87		88		59-130	1		30
2-Butanone	115		112		70-130	3		30
Vinyl acetate	99		100		70-130	1		30
4-Methyl-2-pentanone	93		92		70-130	1		30
1,2,3-Trichloropropane	104		103		68-130	1		30
2-Hexanone	91		88		70-130	3		30
Bromochloromethane	98		98		70-130	0		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 11 Batch: WG1144207-3 WG1144207-4								
2,2-Dichloropropane	95		95		70-130	0		30
1,2-Dibromoethane	100		101		70-130	1		30
1,3-Dichloropropane	99		100		69-130	1		30
1,1,1,2-Tetrachloroethane	98		100		70-130	2		30
Bromobenzene	98		96		70-130	2		30
n-Butylbenzene	98		96		70-130	2		30
sec-Butylbenzene	97		97		70-130	0		30
tert-Butylbenzene	97		96		70-130	1		30
o-Chlorotoluene	81		80		70-130	1		30
p-Chlorotoluene	95		95		70-130	0		30
1,2-Dibromo-3-chloropropane	91		93		68-130	2		30
Hexachlorobutadiene	93		93		67-130	0		30
Isopropylbenzene	98		96		70-130	2		30
p-Isopropyltoluene	96		96		70-130	0		30
Naphthalene	99		96		70-130	3		30
Acrylonitrile	85		86		70-130	1		30
n-Propylbenzene	98		97		70-130	1		30
1,2,3-Trichlorobenzene	96		95		70-130	1		30
1,2,4-Trichlorobenzene	97		95		70-130	2		30
1,3,5-Trimethylbenzene	97		95		70-130	2		30
1,2,4-Trimethylbenzene	99		96		70-130	3		30
1,4-Dioxane	123		123		65-136	0		30
p-Diethylbenzene	96		96		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970009

Lab Number: L1830036

Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 11 Batch: WG1144207-3 WG1144207-4								
p-Ethyltoluene	100		97		70-130	3		30
1,2,4,5-Tetramethylbenzene	94		93		70-130	1		30
Ethyl ether	93		93		67-130	0		30
trans-1,4-Dichloro-2-butene	97		95		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		102		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	104		101		70-130
Dibromofluoromethane	101		102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970009

Lab Number: L1830036

Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 11 Batch: WG1144232-3 WG1144232-4								
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	97		93		63-132	4		20
Tetrachloroethene	96		91		70-130	5		20
Chlorobenzene	110		100		75-130	10		25
1,2-Dichloroethane	100		100		70-130	0		20
Benzene	110		100		70-130	10		25
Vinyl chloride	79		89		55-140	12		20
1,1-Dichloroethene	86		85		61-145	1		25
Trichloroethene	100		97		70-130	3		25
1,4-Dichlorobenzene	100		96		70-130	4		20
2-Butanone	120		120		63-138	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		90		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	115		117		70-130
dibromofluoromethane	95		95		70-130

SEMIVOLATILES

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-01
Client ID: TP-20-SVOC-W5
Sample Location: YONKERS, NY

Date Collected: 08/02/18 08:10
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/08/18 15:42
Analyst: EK
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 08/07/18 07:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	170		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-01
Client ID: TP-20-SVOC-W5
Sample Location: YONKERS, NY
Date Collected: 08/02/18 08:10
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	97	J	ug/kg	110	20.	1
Benzo(a)pyrene	110	J	ug/kg	140	44.	1
Benzo(b)fluoranthene	130		ug/kg	110	30.	1
Benzo(k)fluoranthene	58	J	ug/kg	110	28.	1
Chrysene	95	J	ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	69	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	77	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	73	J	ug/kg	140	25.	1
Pyrene	170		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	86.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-01
Client ID: TP-20-SVOC-W5
Sample Location: YONKERS, NY
Date Collected: 08/02/18 08:10
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	ND		ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	99		25-120
Phenol-d6	104		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	89		30-120
2,4,6-Tribromophenol	105		10-136
4-Terphenyl-d14	80		18-120

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-02
Client ID: TP-20-SVOC-X5
Sample Location: YONKERS, NY

Date Collected: 08/02/18 08:10
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/08/18 16:08
Analyst: EK
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 08/07/18 07:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	260		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-02
Client ID: TP-20-SVOC-X5
Sample Location: YONKERS, NY
Date Collected: 08/02/18 08:10
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	130		ug/kg	100	20.	1
Benzo(a)pyrene	140		ug/kg	140	43.	1
Benzo(b)fluoranthene	180		ug/kg	100	30.	1
Benzo(k)fluoranthene	68	J	ug/kg	100	28.	1
Chrysene	140		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	100	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	130		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	28	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	100	J	ug/kg	140	24.	1
Pyrene	240		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	84.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	28.	1

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-02
Client ID: TP-20-SVOC-X5
Sample Location: YONKERS, NY
Date Collected: 08/02/18 08:10
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	96		25-120
Phenol-d6	103		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	109		10-136
4-Terphenyl-d14	77		18-120

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-03
Client ID: TP-20-SVOC-E5
Sample Location: YONKERS, NY

Date Collected: 08/02/18 08:30
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/08/18 19:06
Analyst: RC
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 08/07/18 07:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	150		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-03
Client ID: TP-20-SVOC-E5
Sample Location: YONKERS, NY
Date Collected: 08/02/18 08:30
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	84	J	ug/kg	110	20.	1
Benzo(a)pyrene	96	J	ug/kg	140	43.	1
Benzo(b)fluoranthene	110		ug/kg	110	30.	1
Benzo(k)fluoranthene	36	J	ug/kg	110	28.	1
Chrysene	86	J	ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	80	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	72	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	70	J	ug/kg	140	25.	1
Pyrene	160		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-03
Client ID: TP-20-SVOC-E5
Sample Location: YONKERS, NY
Date Collected: 08/02/18 08:30
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	95		25-120
Phenol-d6	101		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	93		30-120
2,4,6-Tribromophenol	105		10-136
4-Terphenyl-d14	88		18-120

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-04
Client ID: TP-20-SVOC-N5
Sample Location: YONKERS, NY

Date Collected: 08/02/18 08:50
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/08/18 16:59
Analyst: EK
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 08/07/18 07:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	140		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: FORMER BICC **Lab Number:** L1830036

Project Number: 056970009 **Report Date:** 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-04 Date Collected: 08/02/18 08:50

Client ID: TP-20-SVOC-N5 Date Received: 08/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	91	J	ug/kg	110	20.	1
Benzo(a)pyrene	96	J	ug/kg	140	44.	1
Benzo(b)fluoranthene	110		ug/kg	110	30.	1
Benzo(k)fluoranthene	35	J	ug/kg	110	29.	1
Chrysene	82	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	69	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	76	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	71	J	ug/kg	140	25.	1
Pyrene	170		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	390	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	86.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-04
Client ID: TP-20-SVOC-N5
Sample Location: YONKERS, NY
Date Collected: 08/02/18 08:50
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	ND		ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	103		25-120
Phenol-d6	106		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	106		10-136
4-Terphenyl-d14	81		18-120

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-05
Client ID: TP-20-SVOC-S5
Sample Location: YONKERS, NY

Date Collected: 08/02/18 09:00
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/08/18 17:24
Analyst: EK
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 08/07/18 07:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	130		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: FORMER BICC **Lab Number:** L1830036

Project Number: 056970009 **Report Date:** 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-05 Date Collected: 08/02/18 09:00

Client ID: TP-20-SVOC-S5 Date Received: 08/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	72	J	ug/kg	110	20.	1
Benzo(a)pyrene	76	J	ug/kg	140	44.	1
Benzo(b)fluoranthene	82	J	ug/kg	110	30.	1
Benzo(k)fluoranthene	31	J	ug/kg	110	29.	1
Chrysene	67	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	58	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	76	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	61	J	ug/kg	140	25.	1
Pyrene	130		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	86.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-05
Client ID: TP-20-SVOC-S5
Sample Location: YONKERS, NY
Date Collected: 08/02/18 09:00
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	ND		ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	107		10-136
4-Terphenyl-d14	85		18-120

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-10
Client ID: FB-01
Sample Location: YONKERS, NY

Date Collected: 08/02/18 09:30
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 08/07/18 19:35
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/06/18 22:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	0.44	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Hexachlorobenzene	ND		ug/l	2.0	0.46	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
2-Chloronaphthalene	ND		ug/l	2.0	0.44	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
Fluoranthene	ND		ug/l	2.0	0.26	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorobutadiene	ND		ug/l	2.0	0.66	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Hexachloroethane	ND		ug/l	2.0	0.58	1
Isophorone	ND		ug/l	5.0	1.2	1
Naphthalene	ND		ug/l	2.0	0.46	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-10
Client ID: FB-01
Sample Location: YONKERS, NY
Date Collected: 08/02/18 09:30
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Benzo(a)anthracene	ND		ug/l	2.0	0.32	1
Benzo(a)pyrene	ND		ug/l	2.0	0.41	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37	1
Chrysene	ND		ug/l	2.0	0.34	1
Acenaphthylene	ND		ug/l	2.0	0.46	1
Anthracene	ND		ug/l	2.0	0.33	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.30	1
Fluorene	ND		ug/l	2.0	0.41	1
Phenanthrene	ND		ug/l	2.0	0.33	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40	1
Pyrene	ND		ug/l	2.0	0.28	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1
Dibenzofuran	ND		ug/l	2.0	0.50	1
2-Methylnaphthalene	ND		ug/l	2.0	0.45	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.35	1
2-Chlorophenol	ND		ug/l	2.0	0.48	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.41	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.8	1
2-Nitrophenol	ND		ug/l	10	0.85	1
4-Nitrophenol	ND		ug/l	10	0.67	1
2,4-Dinitrophenol	ND		ug/l	20	6.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8	1
Pentachlorophenol	ND		ug/l	10	1.8	1
Phenol	ND		ug/l	5.0	0.57	1
2-Methylphenol	ND		ug/l	5.0	0.49	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48	1

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-10
Client ID: FB-01
Sample Location: YONKERS, NY
Date Collected: 08/02/18 09:30
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77	1
Benzoic Acid	ND		ug/l	50	2.6	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		21-120
Phenol-d6	60		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	105		41-149

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-11
Client ID: WC-01
Sample Location: YONKERS, NY

Date Collected: 08/02/18 09:15
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/09/18 04:21
Analyst: ALS
Percent Solids: 92%
TCLP/SPLP Ext. Date: 08/04/18 06:08

Extraction Method: EPA 3510C
Extraction Date: 08/08/18 07:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
TCLP Semivolatiles by EPA 1311 - Westborough Lab						
Hexachlorobenzene	ND		ug/l	10	2.9	1
2,4-Dinitrotoluene	ND		ug/l	25	4.2	1
Hexachlorobutadiene	ND		ug/l	10	3.6	1
Hexachloroethane	ND		ug/l	10	3.4	1
Nitrobenzene	ND		ug/l	10	3.8	1
2,4,6-Trichlorophenol	ND		ug/l	25	3.4	1
Pentachlorophenol	ND		ug/l	50	17.	1
2-Methylphenol	ND		ug/l	25	5.1	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	5.6	1
2,4,5-Trichlorophenol	ND		ug/l	25	3.6	1
Pyridine	ND		ug/l	18	9.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		21-120
Phenol-d6	75		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	88		15-120
2,4,6-Tribromophenol	91		10-120
4-Terphenyl-d14	92		33-120

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-11
Client ID: WC-01
Sample Location: YONKERS, NY

Date Collected: 08/02/18 09:15
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 08/08/18 17:50
Analyst: EK
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 08/07/18 07:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	280		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: FORMER BICC **Lab Number:** L1830036

Project Number: 056970009 **Report Date:** 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-11 Date Collected: 08/02/18 09:15

Client ID: WC-01 Date Received: 08/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	120		ug/kg	110	20.	1
Benzo(a)pyrene	150		ug/kg	140	43.	1
Benzo(b)fluoranthene	200		ug/kg	110	30.	1
Benzo(k)fluoranthene	55	J	ug/kg	110	28.	1
Chrysene	160		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	120	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	170		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	120	J	ug/kg	140	25.	1
Pyrene	270		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	850	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-11
Client ID: WC-01
Sample Location: YONKERS, NY
Date Collected: 08/02/18 09:15
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	19	J	ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	89		25-120
Phenol-d6	94		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	97		10-136
4-Terphenyl-d14	77		18-120

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/07/18 12:08
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/06/18 08:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1143197-1					
Acenaphthene	ND		ug/l	2.0	0.44
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Hexachlorobenzene	ND		ug/l	2.0	0.46
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
2-Chloronaphthalene	ND		ug/l	2.0	0.44
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
Fluoranthene	ND		ug/l	2.0	0.26
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorobutadiene	ND		ug/l	2.0	0.66
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Hexachloroethane	ND		ug/l	2.0	0.58
Isophorone	ND		ug/l	5.0	1.2
Naphthalene	ND		ug/l	2.0	0.46
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/07/18 12:08
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/06/18 08:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1143197-1					
Dimethyl phthalate	ND		ug/l	5.0	1.8
Benzo(a)anthracene	ND		ug/l	2.0	0.32
Benzo(a)pyrene	ND		ug/l	2.0	0.41
Benzo(b)fluoranthene	ND		ug/l	2.0	0.35
Benzo(k)fluoranthene	ND		ug/l	2.0	0.37
Chrysene	ND		ug/l	2.0	0.34
Acenaphthylene	ND		ug/l	2.0	0.46
Anthracene	ND		ug/l	2.0	0.33
Benzo(ghi)perylene	ND		ug/l	2.0	0.30
Fluorene	ND		ug/l	2.0	0.41
Phenanthrene	ND		ug/l	2.0	0.33
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.32
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.40
Pyrene	ND		ug/l	2.0	0.28
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50
2-Methylnaphthalene	ND		ug/l	2.0	0.45
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.61
p-Chloro-m-cresol	ND		ug/l	2.0	0.35
2-Chlorophenol	ND		ug/l	2.0	0.48
2,4-Dichlorophenol	ND		ug/l	5.0	0.41
2,4-Dimethylphenol	ND		ug/l	5.0	1.8
2-Nitrophenol	ND		ug/l	10	0.85

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/07/18 12:08
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 08/06/18 08:40

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1143197-1					
4-Nitrophenol	ND		ug/l	10	0.67
2,4-Dinitrophenol	ND		ug/l	20	6.6
4,6-Dinitro-o-cresol	ND		ug/l	10	1.8
Pentachlorophenol	ND		ug/l	10	1.8
Phenol	ND		ug/l	5.0	0.57
2-Methylphenol	ND		ug/l	5.0	0.49
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.48
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.77
Benzoic Acid	ND		ug/l	50	2.6
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49
Tentatively Identified Compounds					
Total TIC Compounds	40.4	J	ug/l		
Aldol Condensates	40.4	J	ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	49		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	85		15-120
2,4,6-Tribromophenol	63		10-120
4-Terphenyl-d14	98		41-149

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/08/18 10:42
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/07/18 07:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05,11 Batch: WG1143573-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	100	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/08/18 10:42
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/07/18 07:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05,11 Batch: WG1143573-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	69.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	100	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/08/18 10:42
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 08/07/18 07:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-05,11 Batch: WG1143573-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.
Tentatively Identified Compounds					
Total TIC Compounds	288	J	ug/kg		
Unknown	288	J	ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	70		18-120

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 08/09/18 00:36
Analyst: ALS
TCLP/SPLP Extraction Date: 08/04/18 06:08

Extraction Method: EPA 3510C
Extraction Date: 08/08/18 07:50

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 11 Batch: WG1144032-1					
Hexachlorobenzene	ND		ug/l	10	2.9
2,4-Dinitrotoluene	ND		ug/l	25	4.2
Hexachlorobutadiene	ND		ug/l	10	3.6
Hexachloroethane	ND		ug/l	10	3.4
Nitrobenzene	ND		ug/l	10	3.8
2,4,6-Trichlorophenol	ND		ug/l	25	3.4
Pentachlorophenol	ND		ug/l	50	17.
2-Methylphenol	ND		ug/l	25	5.1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	5.6
2,4,5-Trichlorophenol	ND		ug/l	25	3.6
Pyridine	ND		ug/l	18	9.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		21-120
Phenol-d6	79		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	89		15-120
2,4,6-Tribromophenol	104		10-120
4-Terphenyl-d14	100		33-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1143197-2 WG1143197-3								
Acenaphthene	90		73		37-111	21		30
1,2,4-Trichlorobenzene	75		64		39-98	16		30
Hexachlorobenzene	91		77		40-140	17		30
Bis(2-chloroethyl)ether	79		68		40-140	15		30
2-Chloronaphthalene	87		72		40-140	19		30
1,2-Dichlorobenzene	72		63		40-140	13		30
1,3-Dichlorobenzene	71		62		40-140	14		30
1,4-Dichlorobenzene	72		60		36-97	18		30
3,3'-Dichlorobenzidine	78		62		40-140	23		30
2,4-Dinitrotoluene	92		71		48-143	26		30
2,6-Dinitrotoluene	98		78		40-140	23		30
Fluoranthene	94		75		40-140	22		30
4-Chlorophenyl phenyl ether	90		77		40-140	16		30
4-Bromophenyl phenyl ether	91		77		40-140	17		30
Bis(2-chloroisopropyl)ether	78		67		40-140	15		30
Bis(2-chloroethoxy)methane	83		69		40-140	18		30
Hexachlorobutadiene	79		66		40-140	18		30
Hexachlorocyclopentadiene	77		64		40-140	18		30
Hexachloroethane	70		60		40-140	15		30
Isophorone	80		69		40-140	15		30
Naphthalene	83		66		40-140	23		30
Nitrobenzene	80		68		40-140	16		30
NDPA/DPA	94		76		40-140	21		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1143197-2 WG1143197-3								
n-Nitrosodi-n-propylamine	85		70		29-132	19		30
Bis(2-ethylhexyl)phthalate	96		77		40-140	22		30
Butyl benzyl phthalate	92		77		40-140	18		30
Di-n-butylphthalate	91		76		40-140	18		30
Di-n-octylphthalate	90		74		40-140	20		30
Diethyl phthalate	94		77		40-140	20		30
Dimethyl phthalate	96		78		40-140	21		30
Benzo(a)anthracene	91		73		40-140	22		30
Benzo(a)pyrene	100		82		40-140	20		30
Benzo(b)fluoranthene	101		79		40-140	24		30
Benzo(k)fluoranthene	99		80		40-140	21		30
Chrysene	92		75		40-140	20		30
Acenaphthylene	90		73		45-123	21		30
Anthracene	91		76		40-140	18		30
Benzo(ghi)perylene	101		85		40-140	17		30
Fluorene	93		76		40-140	20		30
Phenanthrene	92		74		40-140	22		30
Dibenzo(a,h)anthracene	102		86		40-140	17		30
Indeno(1,2,3-cd)pyrene	100		88		40-140	13		30
Pyrene	94		74		26-127	24		30
Biphenyl	90		74		40-140	20		30
4-Chloroaniline	64		58		40-140	10		30
2-Nitroaniline	92		70		52-143	27		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1143197-2 WG1143197-3								
3-Nitroaniline	79		68		25-145	15		30
4-Nitroaniline	88		75		51-143	16		30
Dibenzofuran	91		73		40-140	22		30
2-Methylnaphthalene	86		70		40-140	21		30
1,2,4,5-Tetrachlorobenzene	84		70		2-134	18		30
Acetophenone	79		68		39-129	15		30
2,4,6-Trichlorophenol	93		73		30-130	24		30
p-Chloro-m-cresol	97		75		23-97	26		30
2-Chlorophenol	79		66		27-123	18		30
2,4-Dichlorophenol	88		74		30-130	17		30
2,4-Dimethylphenol	87		68		30-130	25		30
2-Nitrophenol	86		72		30-130	18		30
4-Nitrophenol	79		66		10-80	18		30
2,4-Dinitrophenol	73		58		20-130	23		30
4,6-Dinitro-o-cresol	81		66		20-164	20		30
Pentachlorophenol	86		69		9-103	22		30
Phenol	61		54		12-110	12		30
2-Methylphenol	81		69		30-130	16		30
3-Methylphenol/4-Methylphenol	81		70		30-130	15		30
2,4,5-Trichlorophenol	98		80		30-130	20		30
Benzoic Acid	50		49		10-164	2		30
Benzyl Alcohol	70		64		26-116	9		30
Carbazole	93		75		55-144	21		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1143197-2 WG1143197-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	64		58		21-120
Phenol-d6	56		52		10-120
Nitrobenzene-d5	78		65		23-120
2-Fluorobiphenyl	89		75		15-120
2,4,6-Tribromophenol	98		77		10-120
4-Terphenyl-d14	110		87		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,11 Batch: WG1143573-2 WG1143573-3								
Acenaphthene	75		52		31-137	36		50
1,2,4-Trichlorobenzene	67		46		38-107	37		50
Hexachlorobenzene	78		53		40-140	38		50
Bis(2-chloroethyl)ether	73		50		40-140	37		50
2-Chloronaphthalene	76		52		40-140	38		50
1,2-Dichlorobenzene	68		46		40-140	39		50
1,3-Dichlorobenzene	66		44		40-140	40		50
1,4-Dichlorobenzene	64		44		28-104	37		50
3,3'-Dichlorobenzidine	78		54		40-140	36		50
2,4-Dinitrotoluene	79		57		40-132	32		50
2,6-Dinitrotoluene	79		56		40-140	34		50
Fluoranthene	76		52		40-140	38		50
4-Chlorophenyl phenyl ether	73		49		40-140	39		50
4-Bromophenyl phenyl ether	78		52		40-140	40		50
Bis(2-chloroisopropyl)ether	78		53		40-140	38		50
Bis(2-chloroethoxy)methane	75		52		40-117	36		50
Hexachlorobutadiene	71		49		40-140	37		50
Hexachlorocyclopentadiene	63		41		40-140	42		50
Hexachloroethane	68		45		40-140	41		50
Isophorone	77		53		40-140	37		50
Naphthalene	71		49		40-140	37		50
Nitrobenzene	75		51		40-140	38		50
NDPA/DPA	76		54		36-157	34		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,11 Batch: WG1143573-2 WG1143573-3								
n-Nitrosodi-n-propylamine	77		52		32-121	39		50
Bis(2-ethylhexyl)phthalate	84		61		40-140	32		50
Butyl benzyl phthalate	84		57		40-140	38		50
Di-n-butylphthalate	81		56		40-140	36		50
Di-n-octylphthalate	87		62		40-140	34		50
Diethyl phthalate	80		56		40-140	35		50
Dimethyl phthalate	78		55		40-140	35		50
Benzo(a)anthracene	74		54		40-140	31		50
Benzo(a)pyrene	80		56		40-140	35		50
Benzo(b)fluoranthene	79		56		40-140	34		50
Benzo(k)fluoranthene	75		54		40-140	33		50
Chrysene	77		55		40-140	33		50
Acenaphthylene	73		51		40-140	35		50
Anthracene	77		54		40-140	35		50
Benzo(ghi)perylene	76		53		40-140	36		50
Fluorene	77		53		40-140	37		50
Phenanthrene	76		53		40-140	36		50
Dibenzo(a,h)anthracene	77		54		40-140	35		50
Indeno(1,2,3-cd)pyrene	78		54		40-140	36		50
Pyrene	75		52		35-142	36		50
Biphenyl	80		55		54-104	37		50
4-Chloroaniline	81		56		40-140	36		50
2-Nitroaniline	79		56		47-134	34		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,11 Batch: WG1143573-2 WG1143573-3								
3-Nitroaniline	73		51		26-129	35		50
4-Nitroaniline	78		54		41-125	36		50
Dibenzofuran	75		51		40-140	38		50
2-Methylnaphthalene	73		51		40-140	35		50
1,2,4,5-Tetrachlorobenzene	74		52		40-117	35		50
Acetophenone	77		54		14-144	35		50
2,4,6-Trichlorophenol	79		56		30-130	34		50
p-Chloro-m-cresol	81		58		26-103	33		50
2-Chlorophenol	74		51		25-102	37		50
2,4-Dichlorophenol	76		54		30-130	34		50
2,4-Dimethylphenol	79		55		30-130	36		50
2-Nitrophenol	74		51		30-130	37		50
4-Nitrophenol	91		62		11-114	38		50
2,4-Dinitrophenol	66		48		4-130	32		50
4,6-Dinitro-o-cresol	75		51		10-130	38		50
Pentachlorophenol	73		50		17-109	37		50
Phenol	74		51		26-90	37		50
2-Methylphenol	77		52		30-130.	39		50
3-Methylphenol/4-Methylphenol	78		52		30-130	40		50
2,4,5-Trichlorophenol	77		54		30-130	35		50
Benzoic Acid	53		37		10-110	36		50
Benzyl Alcohol	80		53		40-140	41		50
Carbazole	80		54		54-128	39		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970009

Lab Number: L1830036

Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05,11 Batch: WG1143573-2 WG1143573-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	84		56		25-120
Phenol-d6	88		60		10-120
Nitrobenzene-d5	84		58		23-120
2-Fluorobiphenyl	82		57		30-120
2,4,6-Tribromophenol	88		62		10-136
4-Terphenyl-d14	82		57		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 11 Batch: WG1144032-2 WG1144032-3								
Hexachlorobenzene	94		85		40-140	10		30
2,4-Dinitrotoluene	102		94		40-132	8		30
Hexachlorobutadiene	66		68		28-111	3		30
Hexachloroethane	57		63		21-105	10		30
Nitrobenzene	84		82		40-140	2		30
2,4,6-Trichlorophenol	87		84		30-130	4		30
Pentachlorophenol	85		76		9-103	11		30
2-Methylphenol	80		77		30-130	4		30
3-Methylphenol/4-Methylphenol	80		78		30-130	3		30
2,4,5-Trichlorophenol	92		87		30-130	6		30
Pyridine	**1**	Q	**6**	Q	10-66	**130**	Q	30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	73		72		21-120
Phenol-d6	74		71		10-120
Nitrobenzene-d5	86		83		23-120
2-Fluorobiphenyl	82		79		15-120
2,4,6-Tribromophenol	95		86		10-120
4-Terphenyl-d14	89		81		33-120

PETROLEUM HYDROCARBONS

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-11
Client ID: WC-01
Sample Location: YONKERS, NY

Date Collected: 08/02/18 09:15
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 08/07/18 17:24
Analyst: MZ
Percent Solids: 92%

Extraction Method:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Gasoline Range Organics - Westborough Lab						
Gasoline Range Organics	1100	J	ug/kg	2000	38.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	97		70-130
4-Bromofluorobenzene	83		70-130

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-11
Client ID: WC-01
Sample Location: YONKERS, NY

Date Collected: 08/02/18 09:15
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8015D(M)
Analytical Date: 08/08/18 12:29
Analyst: MEO
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 08/07/18 07:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Petroleum Hydrocarbon Quantitation - Westborough Lab						
TPH	19600	J	ug/kg	35600	4100	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	71		40-140

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-11
Client ID: WC-01
Sample Location: YONKERS, NY

Date Collected: 08/02/18 09:15
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 103,NJDEP EPH
Analytical Date: 08/08/18 22:10
Analyst: DG
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 08/06/18 22:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
Total EPH	ND		mg/kg	25.4	25.4	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	87		40-140
o-Terphenyl	87		40-140

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 103,NJDEP EPH
Analytical Date: 08/07/18 10:43
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 08/06/18 13:53

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 11 Batch: WG1143315-1					
Total EPH	ND		mg/kg	23.4	23.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	84		40-140
o-Terphenyl	83		40-140

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 08/08/18 10:18
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 08/07/18 07:57

Parameter	Result	Qualifier	Units	RL	MDL
Petroleum Hydrocarbon Quantitation - Westborough Lab for sample(s): 11 Batch: WG1143570-1					
TPH	3820	J	ug/kg	32800	3770

Surrogate	%Recovery	Qualifier	Acceptance Criteria
o-Terphenyl	74		40-140

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8015D(M)
Analytical Date: 08/07/18 11:52
Analyst: MZ

Parameter	Result	Qualifier	Units	RL	MDL
Gasoline Range Organics - Westborough Lab for sample(s): 11 Batch: WG1144117-4					
Gasoline Range Organics	1700	J	ug/kg	2500	48.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,1,1-Trifluorotoluene	97		70-130
4-Bromofluorobenzene	86		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 11 Batch: WG1143315-2 WG1143315-3								
Total EPH	88		90		40-140	2		25
Nonane (C9)	74		67		40-140	10		25
Decane (C10)	80		75		40-140	6		25
Dodecane (C12)	79		76		40-140	4		25
Tetradecane (C14)	78		77		40-140	1		25
Hexadecane (C16)	78		80		40-140	3		25
Octadecane (C18)	79		82		40-140	4		25
Eicosane (C20)	78		82		40-140	5		25
Heneicosane (C21)	79		83		40-140	5		25
Docosane (C22)	79		83		40-140	5		25
Tetracosane (C24)	76		80		40-140	5		25
Hexacosane (C26)	78		82		40-140	5		25
Octacosane (C28)	78		82		40-140	5		25
Triacontane (C30)	80		85		40-140	6		25
Dotriacontane (C32)	81		86		40-140	6		25
Tetratriacontane (C34)	81		86		40-140	6		25
Hexatriacontane (C36)	82		87		40-140	6		25
Octatriacontane (C38)	85		90		40-140	6		25
Tetracontane (C40)	81		86		40-140	6		25

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 11 Batch: WG1143315-2 WG1143315-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Chloro-Octadecane	74		77		40-140
o-Terphenyl	75		78		40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970009

Lab Number: L1830036

Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Petroleum Hydrocarbon Quantitation - Westborough Lab Associated sample(s): 11 Batch: WG1143570-2								
TPH	78		-		40-140	-		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
o-Terphenyl	71				40-140

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970009

Lab Number: L1830036

Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Gasoline Range Organics - Westborough Lab	Associated sample(s): 11		Batch: WG1144117-2 WG1144117-3					
Gasoline Range Organics	84		88		80-120	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,1,1-Trifluorotoluene	96		98		70-130
4-Bromofluorobenzene	87		94		70-130

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1143315-4 QC Sample: L1829837-34 Client ID: MS Sample												
Total EPH	ND	244	214	88		-	-		40-140	-		50
Nonane (C9)	ND	6.77	4.72	70		-	-		40-140	-		50
Decane (C10)	ND	6.77	5.22	77		-	-		40-140	-		50
Dodecane (C12)	ND	6.77	5.20	77		-	-		40-140	-		50
Tetradecane (C14)	ND	6.77	5.21	77		-	-		40-140	-		50
Hexadecane (C16)	ND	6.77	5.27	78		-	-		40-140	-		50
Octadecane (C18)	ND	6.77	5.41	80		-	-		40-140	-		50
Eicosane (C20)	ND	6.77	5.41	80		-	-		40-140	-		50
Heneicosane (C21)	ND	6.77	5.44	80		-	-		40-140	-		50
Docosane (C22)	ND	6.77	5.42	80		-	-		40-140	-		50
Tetracosane (C24)	ND	6.77	5.26	78		-	-		40-140	-		50
Hexacosane (C26)	ND	6.77	5.40	80		-	-		40-140	-		50
Octacosane (C28)	ND	6.77	5.41	80		-	-		40-140	-		50
Triacontane (C30)	ND	6.77	5.56	82		-	-		40-140	-		50
Dotriacontane (C32)	ND	6.77	5.61	83		-	-		40-140	-		50
Tetratriacontane (C34)	ND	6.77	5.56	82		-	-		40-140	-		50
Hexatriacontane (C36)	ND	6.77	5.71	84		-	-		40-140	-		50
Octatriacontane (C38)	ND	6.77	5.84	86		-	-		40-140	-		50
Tetracontane (C40)	ND	6.77	5.59	83		-	-		40-140	-		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
Chloro-Octadecane	75				40-140

Matrix Spike Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970009

Lab Number: L1830036

Report Date: 08/10/18

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab MS Sample	Associated sample(s): 11		QC Batch ID: WG1143315-4			QC Sample: L1829837-34			Client ID:			

Surrogate	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
o-Terphenyl	76				40-140

Lab Duplicate Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1143315-5 QC Sample: L1829837-34 Client ID: DUP Sample						
Total EPH	ND	ND	mg/kg	NC		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	77		79		40-140
o-Terphenyl	77		79		40-140

PCBS

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-11
Client ID: WC-01
Sample Location: YONKERS, NY

Date Collected: 08/02/18 09:15
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 08/10/18 07:47
Analyst: WR
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 08/07/18 09:56
Cleanup Method: EPA 3665A
Cleanup Date: 08/08/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/09/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.5	4.03	1	A
Aroclor 1221	ND		ug/kg	35.5	5.41	1	A
Aroclor 1232	ND		ug/kg	35.5	3.50	1	A
Aroclor 1242	ND		ug/kg	35.5	4.35	1	A
Aroclor 1248	ND		ug/kg	35.5	3.99	1	A
Aroclor 1254	8.49	J	ug/kg	35.5	2.90	1	B
Aroclor 1260	10.0	J	ug/kg	35.5	3.71	1	B
Aroclor 1262	ND		ug/kg	35.5	2.92	1	A
Aroclor 1268	ND		ug/kg	35.5	2.52	1	A
PCBs, Total	18.5	J	ug/kg	35.5	2.52	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	104		30-150	B

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 08/09/18 10:12
Analyst: KB

Extraction Method: EPA 3546
Extraction Date: 08/07/18 09:56
Cleanup Method: EPA 3665A
Cleanup Date: 08/08/18
Cleanup Method: EPA 3660B
Cleanup Date: 08/09/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 11 Batch: WG1143643-1						
Aroclor 1016	ND		ug/kg	32.7	3.71	A
Aroclor 1221	ND		ug/kg	32.7	4.98	A
Aroclor 1232	ND		ug/kg	32.7	3.22	A
Aroclor 1242	ND		ug/kg	32.7	4.00	A
Aroclor 1248	ND		ug/kg	32.7	3.67	A
Aroclor 1254	ND		ug/kg	32.7	2.67	A
Aroclor 1260	ND		ug/kg	32.7	3.41	A
Aroclor 1262	ND		ug/kg	32.7	2.69	A
Aroclor 1268	ND		ug/kg	32.7	2.32	A
PCBs, Total	ND		ug/kg	32.7	2.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	79		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970009

Lab Number: L1830036

Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 11 Batch: WG1143643-2 WG1143643-3									
Aroclor 1016	89		90		40-140	1		50	A
Aroclor 1260	66		76		40-140	14		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		80		30-150	A
Decachlorobiphenyl	54		59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		78		30-150	B
Decachlorobiphenyl	68		73		30-150	B

PESTICIDES

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-11
Client ID: WC-01
Sample Location: YONKERS, NY

Date Collected: 08/02/18 09:15
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 08/09/18 15:33
Analyst: KEG
Percent Solids: 92%
TCLP/SPLP Ext. Date: 08/04/18 06:08

Extraction Method: EPA 3510C
Extraction Date: 08/08/18 11:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Pesticides by EPA 1311 - Westborough Lab							
Lindane	ND		ug/l	0.100	0.022	1	A
Heptachlor	ND		ug/l	0.100	0.016	1	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	1	A
Endrin	ND		ug/l	0.200	0.021	1	A
Methoxychlor	ND		ug/l	1.00	0.034	1	A
Toxaphene	ND		ug/l	1.00	0.314	1	A
Chlordane	ND		ug/l	1.00	0.232	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-11
Client ID: WC-01
Sample Location: YONKERS, NY

Date Collected: 08/02/18 09:15
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 08/08/18 20:12
Analyst: SL
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 08/07/18 11:36
Cleanup Method: EPA 3620B
Cleanup Date: 08/08/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	0.324	1	A
Lindane	ND		ug/kg	0.690	0.308	1	A
Alpha-BHC	ND		ug/kg	0.690	0.196	1	A
Beta-BHC	ND		ug/kg	1.66	0.628	1	A
Heptachlor	ND		ug/kg	0.828	0.371	1	A
Aldrin	ND		ug/kg	1.66	0.583	1	A
Heptachlor epoxide	ND		ug/kg	3.10	0.932	1	A
Endrin	ND		ug/kg	0.690	0.283	1	A
Endrin aldehyde	ND		ug/kg	2.07	0.725	1	A
Endrin ketone	ND		ug/kg	1.66	0.426	1	A
Dieldrin	ND		ug/kg	1.04	0.518	1	A
4,4'-DDE	0.787	J	ug/kg	1.66	0.383	1	A
4,4'-DDD	ND		ug/kg	1.66	0.591	1	A
4,4'-DDT	ND		ug/kg	3.10	1.33	1	A
Endosulfan I	ND		ug/kg	1.66	0.391	1	A
Endosulfan II	ND		ug/kg	1.66	0.553	1	A
Endosulfan sulfate	ND		ug/kg	0.690	0.328	1	A
Methoxychlor	ND		ug/kg	3.10	0.966	1	A
Toxaphene	ND		ug/kg	31.0	8.70	1	A
cis-Chlordane	ND		ug/kg	2.07	0.577	1	A
trans-Chlordane	ND		ug/kg	2.07	0.546	1	A
Chlordane	ND		ug/kg	13.4	5.49	1	A

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-11
Client ID: WC-01
Sample Location: YONKERS, NY
Date Collected: 08/02/18 09:15
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	76		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	80		30-150	A

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-11
Client ID: WC-01
Sample Location: YONKERS, NY

Date Collected: 08/02/18 09:15
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 08/09/18 16:31
Analyst: SL
Percent Solids: 92%
TCLP/SPLP Ext. Date: 08/04/18 06:08
Methylation Date: 08/07/18 21:45

Extraction Method: EPA 8151A
Extraction Date: 08/07/18 11:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Herbicides by EPA 1311 - Westborough Lab							
2,4-D	ND		mg/l	0.025	0.001	1	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	35		30-150	A
DCAA	34		30-150	B

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 08/07/18 16:30
Analyst: KEG
TCLP/SPLP Extraction Date: 08/03/18 15:00
Methylation Date: 08/07/18 11:25

Extraction Method: EPA 8151A
Extraction Date: 08/06/18 14:13

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Herbicides by EPA 1311 - Westborough Lab for sample(s): 11 Batch: WG1143277-1						
2,4-D	ND		mg/l	0.025	0.001	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	50		30-150	A
DCAA	47		30-150	B

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 08/08/18 19:21
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 08/07/18 11:36
Cleanup Method: EPA 3620B
Cleanup Date: 08/08/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 11 Batch: WG1143703-1						
Delta-BHC	ND		ug/kg	1.56	0.306	A
Lindane	ND		ug/kg	0.651	0.291	A
Alpha-BHC	ND		ug/kg	0.651	0.185	A
Beta-BHC	ND		ug/kg	1.56	0.592	A
Heptachlor	ND		ug/kg	0.781	0.350	A
Aldrin	ND		ug/kg	1.56	0.550	A
Heptachlor epoxide	ND		ug/kg	2.93	0.878	A
Endrin	ND		ug/kg	0.651	0.267	A
Endrin aldehyde	ND		ug/kg	1.95	0.683	A
Endrin ketone	ND		ug/kg	1.56	0.402	A
Dieldrin	ND		ug/kg	0.976	0.488	A
4,4'-DDE	ND		ug/kg	1.56	0.361	A
4,4'-DDD	ND		ug/kg	1.56	0.557	A
4,4'-DDT	ND		ug/kg	2.93	1.26	A
Endosulfan I	ND		ug/kg	1.56	0.369	A
Endosulfan II	ND		ug/kg	1.56	0.522	A
Endosulfan sulfate	ND		ug/kg	0.651	0.310	A
Methoxychlor	ND		ug/kg	2.93	0.911	A
Toxaphene	ND		ug/kg	29.3	8.20	A
cis-Chlordane	ND		ug/kg	1.95	0.544	A
trans-Chlordane	ND		ug/kg	1.95	0.515	A
Chlordane	ND		ug/kg	12.7	5.17	A

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 08/08/18 19:21
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 08/07/18 11:36
Cleanup Method: EPA 3620B
Cleanup Date: 08/08/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 11 Batch: WG1143703-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	72		30-150	B
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	82		30-150	A

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 08/09/18 14:04
Analyst: KEG
TCLP/SPLP Extraction Date: 08/04/18 06:08

Extraction Method: EPA 3510C
Extraction Date: 08/08/18 11:52

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Pesticides by EPA 1311 - Westborough Lab for sample(s): 11 Batch: WG1144175-1						
Lindane	ND		ug/l	0.100	0.022	A
Heptachlor	ND		ug/l	0.100	0.016	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	A
Endrin	ND		ug/l	0.200	0.021	A
Methoxychlor	ND		ug/l	1.00	0.034	A
Toxaphene	ND		ug/l	1.00	0.314	A
Chlordane	ND		ug/l	1.00	0.232	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	63		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970009

Lab Number: L1830036

Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Herbicides by EPA 1311 - Westborough Lab Associated sample(s): 11 Batch: WG1143277-2 WG1143277-3									
2,4-D	138		124		30-150	11		25	A
2,4,5-TP (Silvex)	57		50		30-150	13		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	58		53		30-150	A
DCAA	51		45		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970009

Lab Number: L1830036

Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 11 Batch: WG1143703-2 WG1143703-3									
Delta-BHC	120		107		30-150	11		30	A
Lindane	116		100		30-150	15		30	A
Alpha-BHC	114		103		30-150	10		30	A
Beta-BHC	125		108		30-150	15		30	A
Heptachlor	118		111		30-150	6		30	A
Aldrin	122		105		30-150	15		30	A
Heptachlor epoxide	124		111		30-150	11		30	A
Endrin	129		119		30-150	8		30	A
Endrin aldehyde	105		95		30-150	10		30	A
Endrin ketone	122		109		30-150	11		30	A
Dieldrin	128		115		30-150	11		30	A
4,4'-DDE	118		106		30-150	11		30	A
4,4'-DDD	118		106		30-150	11		30	A
4,4'-DDT	136		119		30-150	13		30	A
Endosulfan I	116		105		30-150	10		30	A
Endosulfan II	121		107		30-150	12		30	A
Endosulfan sulfate	114		106		30-150	7		30	A
Methoxychlor	118		106		30-150	11		30	A
cis-Chlordane	88		85		30-150	3		30	A
trans-Chlordane	120		109		30-150	10		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 11 Batch: WG1143703-2 WG1143703-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		82		30-150	B
Decachlorobiphenyl	81		84		30-150	B
2,4,5,6-Tetrachloro-m-xylene	97		86		30-150	A
Decachlorobiphenyl	101		90		30-150	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Pesticides by EPA 1311 - Westborough Lab Associated sample(s): 11 Batch: WG1144175-2 WG1144175-3									
Lindane	84		87		30-150	3		20	A
Heptachlor	69		68		30-150	2		20	A
Heptachlor epoxide	87		85		30-150	2		20	A
Endrin	90		84		30-150	6		20	A
Methoxychlor	86		81		30-150	6		20	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		78		30-150	A
Decachlorobiphenyl	84		74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		73		30-150	B
Decachlorobiphenyl	74		69		30-150	B

METALS

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-11
Client ID: WC-01
Sample Location: YONKERS, NY
Date Collected: 08/02/18 09:15
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%
TCLP/SPLP Ext. Date: 08/04/18 06:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab											
Arsenic, TCLP	0.021	J	mg/l	1.00	0.019	1	08/08/18 09:00	08/09/18 16:45	EPA 3015	1,6010D	AB
Barium, TCLP	0.704		mg/l	0.500	0.021	1	08/08/18 09:00	08/09/18 16:45	EPA 3015	1,6010D	AB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	08/08/18 09:00	08/09/18 16:45	EPA 3015	1,6010D	AB
Chromium, TCLP	ND		mg/l	0.200	0.021	1	08/08/18 09:00	08/09/18 16:45	EPA 3015	1,6010D	AB
Lead, TCLP	0.043	J	mg/l	0.500	0.027	1	08/08/18 09:00	08/09/18 16:45	EPA 3015	1,6010D	AB
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	08/08/18 12:24	08/09/18 01:12	EPA 7470A	1,7470A	EA
Selenium, TCLP	ND		mg/l	0.500	0.035	1	08/08/18 09:00	08/09/18 16:45	EPA 3015	1,6010D	AB
Silver, TCLP	ND		mg/l	0.100	0.028	1	08/08/18 09:00	08/09/18 16:45	EPA 3015	1,6010D	AB

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-11
Client ID: WC-01
Sample Location: YONKERS, NY
Date Collected: 08/02/18 09:15
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	20200		mg/kg	8.63	2.33	2	08/08/18 14:35	08/09/18 18:40	EPA 3050B	1,6010D	LC
Antimony, Total	2.39	J	mg/kg	4.32	0.328	2	08/08/18 14:35	08/09/18 18:40	EPA 3050B	1,6010D	LC
Arsenic, Total	2.74		mg/kg	0.863	0.180	2	08/08/18 14:35	08/09/18 18:40	EPA 3050B	1,6010D	LC
Barium, Total	206		mg/kg	0.863	0.150	2	08/08/18 14:35	08/09/18 18:40	EPA 3050B	1,6010D	LC
Beryllium, Total	0.397	J	mg/kg	0.432	0.029	2	08/08/18 14:35	08/09/18 18:40	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.863	0.085	2	08/08/18 14:35	08/09/18 18:40	EPA 3050B	1,6010D	LC
Calcium, Total	2880		mg/kg	8.63	3.02	2	08/08/18 14:35	08/09/18 18:40	EPA 3050B	1,6010D	LC
Chromium, Total	42.2		mg/kg	0.863	0.083	2	08/08/18 14:35	08/09/18 18:40	EPA 3050B	1,6010D	LC
Cobalt, Total	17.4		mg/kg	1.73	0.143	2	08/08/18 14:35	08/09/18 18:40	EPA 3050B	1,6010D	LC
Copper, Total	33.3		mg/kg	0.863	0.223	2	08/08/18 14:35	08/09/18 18:40	EPA 3050B	1,6010D	LC
Iron, Total	28900		mg/kg	4.32	0.780	2	08/08/18 14:35	08/09/18 18:40	EPA 3050B	1,6010D	LC
Lead, Total	39.5		mg/kg	4.32	0.231	2	08/08/18 14:35	08/09/18 18:40	EPA 3050B	1,6010D	LC
Magnesium, Total	9520		mg/kg	8.63	1.33	2	08/08/18 14:35	08/09/18 18:40	EPA 3050B	1,6010D	LC
Manganese, Total	472		mg/kg	0.863	0.137	2	08/08/18 14:35	08/09/18 18:40	EPA 3050B	1,6010D	LC
Mercury, Total	0.089		mg/kg	0.069	0.015	1	08/08/18 11:00	08/08/18 21:24	EPA 7471B	1,7471B	EA
Nickel, Total	25.2		mg/kg	2.16	0.209	2	08/08/18 14:35	08/09/18 18:40	EPA 3050B	1,6010D	LC
Potassium, Total	9060		mg/kg	216	12.4	2	08/08/18 14:35	08/09/18 18:40	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.73	0.223	2	08/08/18 14:35	08/09/18 18:40	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.863	0.244	2	08/08/18 14:35	08/09/18 18:40	EPA 3050B	1,6010D	LC
Sodium, Total	183		mg/kg	173	2.72	2	08/08/18 14:35	08/09/18 18:40	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.73	0.272	2	08/08/18 14:35	08/09/18 18:40	EPA 3050B	1,6010D	LC
Vanadium, Total	55.9		mg/kg	0.863	0.175	2	08/08/18 14:35	08/09/18 18:40	EPA 3050B	1,6010D	LC
Zinc, Total	90.7		mg/kg	4.32	0.253	2	08/08/18 14:35	08/09/18 18:40	EPA 3050B	1,6010D	LC

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 11 Batch: WG1143968-1										
Mercury, Total	0.028	J	mg/kg	0.083	0.018	1	08/08/18 11:00	08/08/18 21:00	1,7471B	EA

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 11 Batch: WG1144136-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	08/08/18 14:35	08/09/18 13:35	1,6010D	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	08/08/18 14:35	08/09/18 13:35	1,6010D	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	08/08/18 14:35	08/09/18 13:35	1,6010D	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	08/08/18 14:35	08/09/18 13:35	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	08/08/18 14:35	08/09/18 13:35	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	08/08/18 14:35	08/09/18 13:35	1,6010D	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	08/08/18 14:35	08/09/18 13:35	1,6010D	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	08/08/18 14:35	08/09/18 13:35	1,6010D	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	08/08/18 14:35	08/09/18 13:35	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	08/08/18 14:35	08/09/18 13:35	1,6010D	LC
Iron, Total	ND		mg/kg	2.00	0.361	1	08/08/18 14:35	08/09/18 13:35	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	08/08/18 14:35	08/09/18 13:35	1,6010D	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	08/08/18 14:35	08/09/18 13:35	1,6010D	LC
Manganese, Total	ND		mg/kg	0.400	0.064	1	08/08/18 14:35	08/09/18 13:35	1,6010D	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	08/08/18 14:35	08/09/18 13:35	1,6010D	LC
Potassium, Total	ND		mg/kg	100	5.76	1	08/08/18 14:35	08/09/18 13:35	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	08/08/18 14:35	08/09/18 13:35	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	08/08/18 14:35	08/09/18 13:35	1,6010D	LC
Sodium, Total	ND		mg/kg	80.0	1.26	1	08/08/18 14:35	08/09/18 13:35	1,6010D	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	08/08/18 14:35	08/09/18 13:35	1,6010D	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	08/08/18 14:35	08/09/18 13:35	1,6010D	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	08/08/18 14:35	08/09/18 13:35	1,6010D	LC

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 11 Batch: WG1144167-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0003	1	08/08/18 12:24	08/09/18 01:08	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A
TCLP/SPLP Extraction Date: 08/04/18 06:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 11 Batch: WG1144458-1										
Arsenic, TCLP	ND		mg/l	1.00	0.019	1	08/08/18 09:00	08/09/18 16:40	1,6010D	AB
Barium, TCLP	ND		mg/l	0.500	0.021	1	08/08/18 09:00	08/09/18 16:40	1,6010D	AB
Cadmium, TCLP	ND		mg/l	0.100	0.010	1	08/08/18 09:00	08/09/18 16:40	1,6010D	AB
Chromium, TCLP	ND		mg/l	0.200	0.021	1	08/08/18 09:00	08/09/18 16:40	1,6010D	AB
Lead, TCLP	ND		mg/l	0.500	0.027	1	08/08/18 09:00	08/09/18 16:40	1,6010D	AB
Selenium, TCLP	ND		mg/l	0.500	0.035	1	08/08/18 09:00	08/09/18 16:40	1,6010D	AB
Silver, TCLP	ND		mg/l	0.100	0.028	1	08/08/18 09:00	08/09/18 16:40	1,6010D	AB

Prep Information

Digestion Method: EPA 3015
TCLP/SPLP Extraction Date: 08/04/18 06:08

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970009

Lab Number: L1830036

Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 Batch: WG1143968-2 SRM Lot Number: D098-540								
Mercury, Total	120		-		50-149	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970009

Lab Number: L1830036

Report Date: 08/10/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 Batch: WG1144136-2 SRM Lot Number: D098-540					
Aluminum, Total	59	-	47-153	-	
Antimony, Total	159	-	6-194	-	
Arsenic, Total	90	-	83-117	-	
Barium, Total	94	-	82-118	-	
Beryllium, Total	88	-	83-117	-	
Cadmium, Total	89	-	82-117	-	
Calcium, Total	88	-	81-118	-	
Chromium, Total	90	-	83-119	-	
Cobalt, Total	96	-	84-116	-	
Copper, Total	93	-	84-116	-	
Iron, Total	71	-	60-140	-	
Lead, Total	85	-	82-117	-	
Magnesium, Total	85	-	76-124	-	
Manganese, Total	94	-	82-118	-	
Nickel, Total	92	-	82-117	-	
Potassium, Total	72	-	69-131	-	
Selenium, Total	92	-	78-121	-	
Silver, Total	82	-	80-120	-	
Sodium, Total	83	-	74-126	-	
Thallium, Total	91	-	80-119	-	
Vanadium, Total	93	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970009

Lab Number: L1830036

Report Date: 08/10/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 Batch: WG1144136-2 SRM Lot Number: D098-540					
Zinc, Total	86	-	81-119	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 11 Batch: WG1144167-2					
Mercury, TCLP	93	-	80-120	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 11 Batch: WG1144458-2					
Arsenic, TCLP	103	-	75-125	-	20
Barium, TCLP	98	-	75-125	-	20
Cadmium, TCLP	99	-	75-125	-	20
Chromium, TCLP	98	-	75-125	-	20
Lead, TCLP	93	-	75-125	-	20
Selenium, TCLP	102	-	75-125	-	20
Silver, TCLP	93	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1143968-3 QC Sample: L1829976-01 Client ID: MS Sample												
Mercury, Total	0.021J	0.137	0.195	**142**	Q	-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1144136-3 QC Sample: L1829924-04 Client ID: MS Sample										
Aluminum, Total	4940	175	4770	**0**	Q	-	-	75-125	-	20
Antimony, Total	0.688J	43.7	43.4	99		-	-	75-125	-	20
Arsenic, Total	2.90	10.5	12.8	94		-	-	75-125	-	20
Barium, Total	19.0	175	192	99		-	-	75-125	-	20
Beryllium, Total	0.184J	4.37	4.10	94		-	-	75-125	-	20
Cadmium, Total	ND	4.46	3.66	82		-	-	75-125	-	20
Calcium, Total	246.	874	1050	92		-	-	75-125	-	20
Chromium, Total	7.57	17.5	24.8	98		-	-	75-125	-	20
Cobalt, Total	3.85	43.7	42.2	88		-	-	75-125	-	20
Copper, Total	10.6	21.8	29.2	85		-	-	75-125	-	20
Iron, Total	11600	87.4	10400	**0**	Q	-	-	75-125	-	20
Lead, Total	5.21	44.6	43.6	86		-	-	75-125	-	20
Magnesium, Total	2310	874	2410	**11**	Q	-	-	75-125	-	20
Manganese, Total	157.	43.7	188	**71**	Q	-	-	75-125	-	20
Nickel, Total	9.01	43.7	46.6	86		-	-	75-125	-	20
Potassium, Total	441.	874	1270	95		-	-	75-125	-	20
Selenium, Total	ND	10.5	9.75	93		-	-	75-125	-	20
Silver, Total	ND	26.2	25.4	97		-	-	75-125	-	20
Sodium, Total	32.4J	874	893	102		-	-	75-125	-	20
Thallium, Total	ND	10.5	8.72	83		-	-	75-125	-	20
Vanadium, Total	9.82	43.7	49.0	90		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1144136-3 QC Sample: L1829924-04 Client ID: MS Sample									
Zinc, Total	29.8	43.7	63.2	76	-	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1144167-3 QC Sample: L1830036-11 Client ID: WC-01									
Mercury, TCLP	ND	0.025	0.0249	100	-	-	80-120	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1144458-3 QC Sample: L1830036-11 Client ID: WC-01									
Arsenic, TCLP	0.021J	1.2	1.23	102	-	-	75-125	-	20
Barium, TCLP	0.704	20	19.6	94	-	-	75-125	-	20
Cadmium, TCLP	ND	0.51	0.490	96	-	-	75-125	-	20
Chromium, TCLP	ND	2	1.89	94	-	-	75-125	-	20
Lead, TCLP	0.043J	5.1	4.67	92	-	-	75-125	-	20
Selenium, TCLP	ND	1.2	1.19	99	-	-	75-125	-	20
Silver, TCLP	ND	0.5	0.442	88	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1143968-4 QC Sample: L1829976-01 Client ID: DUP Sample						
Mercury, Total	0.021J	0.022J	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1144136-4 QC Sample: L1829924-04 Client ID: DUP Sample						
Lead, Total	5.21	5.29	mg/kg	2		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1144167-4 QC Sample: L1830036-11 Client ID: WC-01						
Mercury, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 11 QC Batch ID: WG1144458-4 QC Sample: L1830036-11 Client ID: WC-01						
Arsenic, TCLP	0.021J	ND	mg/l	NC		20
Barium, TCLP	0.704	0.700	mg/l	1		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	0.043J	0.037J	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-11
Client ID: WC-01
Sample Location: YONKERS, NY

Date Collected: 08/02/18 09:15
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Test Material Information

Source of Material:	Unknown
Description of Material:	Non-Metallic - Damp Soil
Particle Size:	Medium
Preliminary Burning Time (sec):	120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	08/08/18 09:50	1,1030	BR

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-01
Client ID: TP-20-SVOC-W5
Sample Location: YONKERS, NY

Date Collected: 08/02/18 08:10
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.3		%	0.100	NA	1	-	08/04/18 12:13	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-02
Client ID: TP-20-SVOC-X5
Sample Location: YONKERS, NY

Date Collected: 08/02/18 08:10
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.4		%	0.100	NA	1	-	08/04/18 12:13	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-03
Client ID: TP-20-SVOC-E5
Sample Location: YONKERS, NY

Date Collected: 08/02/18 08:30
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.9		%	0.100	NA	1	-	08/04/18 12:13	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-04
Client ID: TP-20-SVOC-N5
Sample Location: YONKERS, NY

Date Collected: 08/02/18 08:50
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.3		%	0.100	NA	1	-	08/04/18 12:13	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-05
Client ID: TP-20-SVOC-S5
Sample Location: YONKERS, NY

Date Collected: 08/02/18 09:00
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.0		%	0.100	NA	1	-	08/04/18 12:13	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

SAMPLE RESULTS

Lab ID: L1830036-11
Client ID: WC-01
Sample Location: YONKERS, NY

Date Collected: 08/02/18 09:15
Date Received: 08/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.0		%	0.100	NA	1	-	08/07/18 12:47	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	08/05/18 13:35	08/06/18 11:27	1,9010C/9012B	LH
pH (H)	7.9		SU	-	NA	1	-	08/03/18 23:40	1,9045D	CW
Halides, Extractable Organic	6.93	J	mg/kg	21.7	3.62	1	08/07/18 16:00	08/07/18 20:09	1,9023	MR
Chromium, Hexavalent	ND		mg/kg	0.870	0.174	1	08/07/18 07:40	08/07/18 11:07	1,7196A	NH
Cyanide, Reactive	ND		mg/kg	10	10.	1	08/04/18 16:35	08/04/18 18:01	125,7.3	RM
Sulfide, Reactive	ND		mg/kg	10	10.	1	08/04/18 16:35	08/04/18 17:47	125,7.3	RM
Paint Filter Liquid	NEGATIVE		-	0	NA	1	-	08/06/18 18:41	1,9095B	AS

Project Name: FORMER BICC
Project Number: 056970009
Lab Number: L1830036
Report Date: 08/10/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 11 Batch: WG1143024-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	08/04/18 16:35	08/04/18 17:43	125,7.3	RM
General Chemistry - Westborough Lab for sample(s): 11 Batch: WG1143025-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	08/04/18 16:35	08/04/18 17:58	125,7.3	RM
General Chemistry - Westborough Lab for sample(s): 11 Batch: WG1143080-1										
Cyanide, Total	ND		mg/kg	0.96	0.20	1	08/05/18 13:35	08/06/18 11:00	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 11 Batch: WG1143601-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	08/07/18 07:40	08/07/18 11:07	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 11 Batch: WG1143900-1										
Halides, Extractable Organic	ND		mg/kg	20.0	3.33	1	08/07/18 16:00	08/07/18 17:56	1,9023	MR

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970009

Lab Number: L1830036

Report Date: 08/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 11 Batch: WG1142840-2								
pH	101		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 11 Batch: WG1143024-2								
Sulfide, Reactive	108		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 11 Batch: WG1143025-2								
Cyanide, Reactive	69		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 11 Batch: WG1143080-2 WG1143080-3								
Cyanide, Total	103		**79**	Q	80-120	29		35
General Chemistry - Westborough Lab Associated sample(s): 11 Batch: WG1143601-2								
Chromium, Hexavalent	83		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 11 Batch: WG1143900-2								
Halides, Extractable Organic	92		-		70-130	-		30

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1143080-4 WG1143080-5 QC Sample: L1829976-01 Client ID: MS Sample												
Cyanide, Total	ND	11	11	100		11	100		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1143601-4 QC Sample: L1830036-11 Client ID: WC-01												
Chromium, Hexavalent	ND	909	938	103		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1143900-4 QC Sample: L1830036-11 Client ID: WC-01												
Halides, Extractable Organic	6.93J	109	92.1	85		-	-		70-130	-		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1142840-1 QC Sample: L1829987-30 Client ID: DUP Sample						
pH	5.5	5.4	SU	2		5
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1142962-1 QC Sample: L1829976-01 Client ID: DUP Sample						
Solids, Total	91.3	90.5	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1143024-3 QC Sample: L1830036-11 Client ID: WC-01						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1143025-3 QC Sample: L1830036-11 Client ID: WC-01						
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1143601-6 QC Sample: L1830036-11 Client ID: WC-01						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1143730-1 QC Sample: L1829924-03 Client ID: DUP Sample						
Solids, Total	89.5	90.2	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 11 QC Batch ID: WG1143900-3 QC Sample: L1830036-11 Client ID: WC-01						
Halides, Extractable Organic	6.93J	5.90J	mg/kg	NC		30

Project Name: FORMER BICC
Project Number: 056970009

Lab Number: L1830036
Report Date: 08/10/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1830036-01A	Plastic 2oz unpreserved for TS	A	NA		5.8	Y	Absent		TS(7)
L1830036-01B	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		NYTCL-8270(14)
L1830036-02A	Plastic 2oz unpreserved for TS	A	NA		5.8	Y	Absent		TS(7)
L1830036-02B	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		NYTCL-8270(14)
L1830036-03A	Plastic 2oz unpreserved for TS	A	NA		5.8	Y	Absent		TS(7)
L1830036-03B	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		NYTCL-8270(14)
L1830036-04A	Plastic 2oz unpreserved for TS	A	NA		5.8	Y	Absent		TS(7)
L1830036-04B	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		NYTCL-8270(14)
L1830036-05A	Plastic 2oz unpreserved for TS	A	NA		5.8	Y	Absent		TS(7)
L1830036-05B	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		NYTCL-8270(14)
L1830036-06A	Plastic 2oz unpreserved for TS	A	NA		5.8	Y	Absent		HOLD-8270(14)
L1830036-06B	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		HOLD-8270(14)
L1830036-07A	Plastic 2oz unpreserved for TS	A	NA		5.8	Y	Absent		HOLD-8270(14)
L1830036-07B	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		HOLD-8270(14)
L1830036-08A	Plastic 2oz unpreserved for TS	A	NA		5.8	Y	Absent		HOLD-8270(14)
L1830036-08B	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		HOLD-8270(14)
L1830036-09A	Plastic 2oz unpreserved for TS	A	NA		5.8	Y	Absent		HOLD-8270(14)
L1830036-09B	Glass 120ml/4oz unpreserved	A	NA		5.8	Y	Absent		HOLD-8270(14)
L1830036-10A	Amber 250ml unpreserved	A	7	7	5.8	Y	Absent		NYTCL-8270-LVI(7)
L1830036-10B	Amber 250ml unpreserved	A	7	7	5.8	Y	Absent		NYTCL-8270-LVI(7)
L1830036-11A	Vial MeOH preserved	A	NA		5.8	Y	Absent		NYTCL-8260HLW(14)
L1830036-11B	Vial water preserved	A	NA		5.8	Y	Absent	03-AUG-18 17:00	NYTCL-8260HLW(14)
L1830036-11C	Vial water preserved	A	NA		5.8	Y	Absent	03-AUG-18 17:00	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1830036-11D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1830036-11E	Vial Large Septa unpreserved (4oz)	A	NA		5.8	Y	Absent		TPH-GRO(14),TCLP-EXT-ZHE(14)
L1830036-11E9	Vial MeOH preserved split	A	NA		5.8	Y	Absent		TPH-GRO(14)
L1830036-11F	Glass 250ml/8oz unpreserved	A	NA		5.8	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),NJEPH-TPH-CAT1(14),EOX-9023(28),TS(7),PH-9045(1),NYTCL-8081(14),PAINTF(),NYTCL-8082(14),REACTCN(14),TPH-DRO-D(14),HEXCR-7196(30)
L1830036-11G	Glass 500ml/16oz unpreserved	A	NA		5.8	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),NJEPH-TPH-CAT1(14),EOX-9023(28),TS(7),PH-9045(1),NYTCL-8081(14),PAINTF(),NYTCL-8082(14),REACTCN(14),TPH-DRO-D(14),HEXCR-7196(30)
L1830036-11T	Vial unpreserved Extracts	A	NA		5.8	Y	Absent		TCLP-VOA(14)
L1830036-11U	Vial unpreserved Extracts	A	NA		5.8	Y	Absent		TCLP-VOA(14)
L1830036-11V	Vial unpreserved Extracts	A	NA		5.8	Y	Absent		TCLP-VOA(14)
L1830036-11W	Amber 1000ml unpreserved Extracts	A	NA		5.8	Y	Absent		TCLP-8270(14),HERB-TCLP*(14),PEST-TCLP*(14)
L1830036-11X	Plastic 120ml HNO3 preserved Extracts	A	NA		5.8	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1830036-11X9	Tumble Vessel	A	NA		5.8	Y	Absent		-
L1830036-12A	Vial HCl preserved	A	NA		5.8	Y	Absent		NYTCL-8260(14)
L1830036-12B	Vial HCl preserved	A	NA		5.8	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	FORMER BICC	**Lab Number:**	L1830036
Project Number:	056970009	**Report Date:**	08/10/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER BICC	**Lab Number:**	L1830036
Project Number:	056970009	**Report Date:**	08/10/18

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER BICC	**Lab Number:**	L1830036
Project Number:	056970009	**Report Date:**	08/10/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

103 Analysis of Extractable Petroleum Hydrocarbon Compounds (EPH) in Aqueous and Soil/Sediment/Sludge Matrices. New Jersey Department of Environmental Protection, Site Remediation Program, (Version 1.1), Document # NJDEP EPH 10/08, Revision 3, August 2010.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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Page 1 of 2

Date Rec'd in Lab: 8/2/18

ALPHA Job #: L1833036

Client Information

Client: PSiS Engineering PC
Address: 1 Larkin Plaza 2nd Floor, Yonkers, NY 10701
Phone: 203-252-4015
Fax:
Email: scaponi220@gmail.com

Project Information

Project Name: Former BICC
Project Location: Yonkers, NY
Project #: 05697000.4
(Use Project name as Project #)
Project Manager: Scott Caponi 220
ALPHAQuote #: Q5704

Turn-Around Time

Standard: X
Rush (only if pre approved): ☐
Due Date:
# of Days:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☒ NY Restricted Use ☐ Other → + Prot. of GW
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☒ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
☐ NJ ☐ NY
☐ Other: N/A

Sample Filtration

☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL SVOC 8270	TCL - 2540	Sample Specific Comments	Total # Bottles
30056-01	TP-20-SVOC-W5	8/2/18	810	S	SC	X	X	RUN	2
02	TP-20-SVOC-X5		810	S	SC	X	X	RUN	2
03	TP-20-SVOC-E5		830	S	SC	X	X	RUN	2
04	TP-20-SVOC-N5		850	S	SC	X	X	RUN	2
05	TP-20-SVOC-S5		0900	S	SC	X	X	RUN	2
06	TP-20-SVOC-W10		1020	S	SC	H	H	HOLD	2
07	TP-20-SVOC-E10		1030	S	SC	H	H	HOLD	2
08	TP-20-SVOC-N10		1040	S	SC	H	H	HOLD	2
09	TP-20-SVOC-S10		1050	S	SC	H	H	HOLD	2
10	FB-01	8/2/18	0930	FB	SC	X	X	RUN	2

Container Type: A P
Preservative: A A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	8/2/18 1300	Michael John AAL	8/2/18 1612
Michael John AAL	8/2/18 1802	D. Santos AAL	8/2/18 1830
D. Santos AAL	8/2/18 2230		8/2/18 2230

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 8/2/18

ALPHA Job #: L1830036

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Client Information
Client: PS&S Engineering
Address: 1 Larkin Plaza 2nd Floor Yonkers, NY 10701
Phone: 203-252-4015
Fax:
Email: scapozzo@pseandsinc.com

Project Information
Project Name: Former BICC
Project Location: Yonkers, NY
Project #: 05697 0009
(Use Project name as Project #) ☐
Project Manager: S. Capozzo
ALPHAQuote #: Q5204

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☒ NY Restricted Use ☐ Other → 4 Dist. of GW
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☒ NJ ☒ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TS - 2540	TPH by GC-FID	TPH-GRO	NJ EPH - Cat 1	Mon wat Chlorid	Percent Filter	TCLP - complete	EDB/DBCP	TCL VOCs	Sample Specific Comments	Total Bottles
30036-11	WC-01	8/2/18	0915	S	SC	X	X	X	X	X	X	X	X			7
12	Trip Blank	8/2/18	—	TB	SC									X		1

Container Type: P | A | A | A | A | A | A | A | V
Preservative: A | A | A | A | A | A | A | A | A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	8/2/18 1300	Mitchell Jones AAL	8/2/18 1300
Mitchell Jones AAL	8/2/18 1807	O Santos AAL	8/2/18 1835
D. Santos AAL	8/2/18 2230		8/2/18 2230

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Form No: 01-25 HC (rev. 30-Sept-2013)

From:	Hubicki, Matthew S (DEC)
To:	Caporizzo, Scott
Cc:	Israel, Camila; Salinas, L. Miguel; Gorelick, Hindy; Mandelbaum, Jack; DiGerolamo, Lisa; Deyette, Scott (DEC)
Subject:	RE: Former BICC Cables Site (NYSDEC Site No. C360051): Existing Fill TP-20 Delineation Sampling Work Plan
Date:	Monday, July 30, 2018 9:33:29 AM
Attachments:	image001.gif image003.gif image004.jpg image005.jpg image006.jpg image007.jpg

Good Morning Scott – This additional sampling for Existing Fill TP-20 Delineation Sampling Work Plan for BICC Cables Site No. C360051 is approved.

Please keep us informed when this work will be conducted.

-Matt

Matthew Hubicki
Project Manager, Remedial Bureau C
Division of Environmental Remediation

New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014
P: 518-402-9605 | F: 518-402-9679 | matthew.hubicki@dec.ny.gov

www.dec.ny.gov |

From: Caporizzo, Scott [mailto:scaporizzo@psands.com]
Sent: Thursday, July 19, 2018 2:40 PM
To: Hubicki, Matthew S (DEC) <matthew.hubicki@dec.ny.gov>
Cc: Israel, Camila <cIsrael@psands.com>; Salinas, L. Miguel <lsalinas@psands.com>; Gorelick, Hindy <HGorelick@extell.com>; Mandelbaum, Jack <JMandelbaum@extell.com>; DiGerolamo, Lisa <ldigerolamo@psands.com>; Deyette, Scott (DEC) <scott.deyette@dec.ny.gov>; Crosby, David (DEC) <david.crosby@dec.ny.gov>
Subject: Former BICC Cables Site (NYSDEC Site No. C360051): Existing Fill TP-20 Delineation Sampling Work Plan

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Good afternoon Matt,

Attached for your review is the Existing Fill TP-20 Delineation Sampling Work Plan (Work Plan) for the Former BICC Cables Site (NYSDEC Site No. C360051). As discussed, this Work Plan details the proposed scope of work to perform SVOC delineation sampling at test pit location TP-20. Please refer to the attached Work Plan for additional information.

Please let me know if you have any questions/comments. The Extell team plans to proceed with the Work Plan following NYSDEC approval.

Regards,
Scott Caporizzo, E.I.T.

o. 914-226-3722
c. 203-252-4015
scaporizzo@psands.com

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Yonkers, NY 10701

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ELECTRONIC MAIL SUBMISSION

July 19, 2018

Mr. Matthew Hubicki
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7017
Via email to matthew.hubicki@dec.ny.gov

Education
Energy Utility
Hospitality
Public Sector
Real Estate
Science & Technology

RE: *Former BICC Cables Site (Extell Waterfront Development)*
One Point Street
Yonkers, New York, 10701
BCP Site No. C360051
Existing Fill TP-20 Delineation Sampling Work Plan

Dear Mr. Hubicki,

1.0 Introduction

On behalf of Extell Waterfront Development, LLC (Extell), Paulus, Sokolowski and Sartor Engineering, PC (PS&S) has prepared this Existing Fill TP-20 Delineation Sampling Work Plan (Work Plan) to perform SVOC delineation sampling at test pit location TP-20. As summarized in the Existing Fill Sampling Report, dated May 25, 2018, a composite sample collected at TP-20 reported SVOCs which exceeded the lesser of the New York State Restricted Residential Use Soil Cleanup Objectives (SCOs) or Protection of Groundwater SCOs (the applicable regulatory criteria for imported fill (6 NYCRR 375-6.7(d)(1)(b)), as identified in the Site's SMP). PS&S proposes to perform delineation sampling as detailed below.

2.0 Existing Fill TP-20 Delineation Sampling Work Plan

The Existing Fill Sample Location Map (Attachment A) depicts the proposed TP-20 delineation sample locations. Test pit excavation sampling is proposed at 5 foot off-sets (to the north, south, west, and east) from the original TP-20 sample location. A composite sample will be collected across the vertical profile of each test pit as the excavation is extended from the current Site grade to the top of the existing asphalt pavement cover system. Three to five discrete samples collected within each test pit will comprise a composite sample for that test pit. The composite samples will be submitted to an ELAP-certified laboratory and analyzed for SVOCs only, as previously confirmed with NYSDEC.

In the event delineation test pit excavations exhibit field indicators (visual, odor or PID readings) of contamination, additional step-out test pit locations, in 5 foot off-set increments, will be conducted, and samples will be collected, to the extent practicable, in an effort to obtain compliant delineation samples. In addition, if timing permits, additional step-out test pits will be conducted, and samples will be collected. These samples will be retained in the

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lab and analyzed in the event a 5-foot step-out delineation sample reports non-compliant SVOC concentrations and/or as requested by NYSDEC.

During test pit excavation activities, work zone real-time monitoring for VOCs and particulates (i.e., dust) will be conducted. Test pit excavation materials will also be visually assessed for compliance and field screened with a photo-ionization detector (PID). Any fill materials displaying visual or olfactory signs of contamination during the test pit investigation will be segregated for off-site disposal. Further, any observed soil materials containing elevated levels (i.e., greater than trace amounts) of brick, glass, or other miscellaneous debris content will be segregated for off-site disposal.

Sample results will be compared to the lesser of Restricted Residential and Protection of Groundwater Soil Cleanup Objectives (SCO), which is the allowable constituent levels for imported fill, as identified in the Site's SMP.

3.0 Waste Characterization Sampling

As an effort to expedite the transportation and disposal of identified non-compliant materials, a waste characterization sample will be collected during test pit excavation delineation sampling efforts. It is assumed that the materials will be characterized as non-hazardous, therefore, the waste characterization sample will be collected to meet sampling criteria requirements of typical disposal facilities for non-hazardous soil materials.

4.0 Reporting

PS&S will prepare a TP-20 delineation sampling letter report which will document visual (e.g., photolog) and analytical results of this Work Plan. The report will also document the materials which have been identified as non-compliant and are proposed for off-site disposal. Once a disposal facility is selected, appropriate documentation (e.g., facility acceptance letter) will be provided to NYSDEC for review and approval.

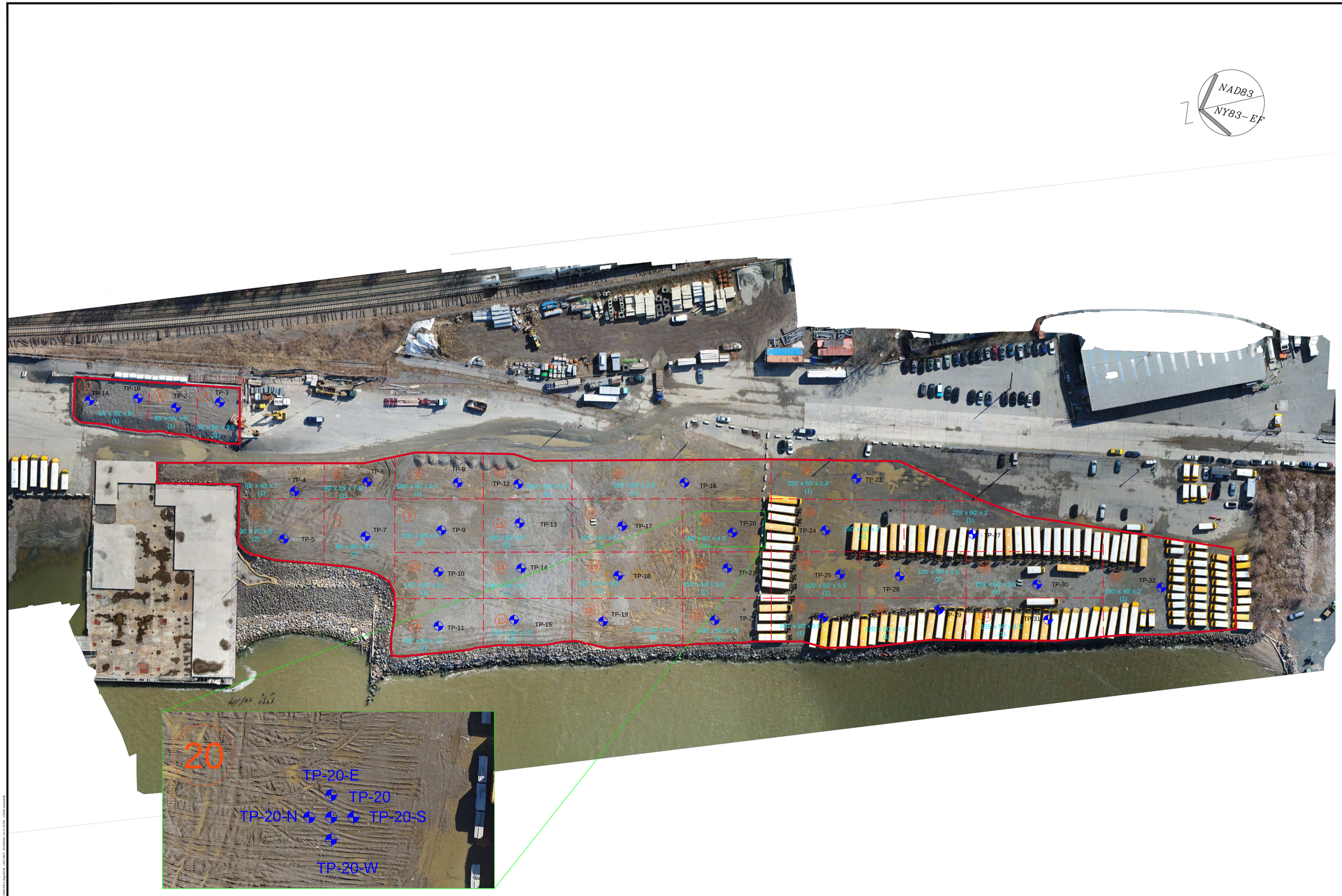
PS&S appreciates your review of this Work Plan. Should you have any questions or require additional information, please contact me at 914-226-3722 or at scaporizzo@psands.com.

Very truly yours,

Scott P. Caporizzo, E.I.T.
PAULUS, SOKOLOWSKI AND SARTOR ENGINEERING, PC

Attachments: Attachment A – Existing Fill Sample Location Map

CC: George Heitzman, NYSDEC; David Crosby, NYSDEC; Scott Deyette, NYSDEC; Jack Mandelbaum, Extell; Hindy Gorelick, Extell; M. Salinas, PS&S; C. Israel, PS&S;



INSET A:
PROPOSED STEP-OUT SAMPLE LOCATIONS
SCALE: 1" = 10'

GRAPHIC SCALE
50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

REV. / ISSUE	DATE	DESCRIPTION

CONSULTANT

ORIENTATION / KEY PLAN

LEGEND:

- FILL MATERIAL SAMPLING GRID LINE
- TP-31 — TEST PIT LOCATIONS
- LIMITS OF OBSERVED FILL MATERIAL
- 31 — FILL MATERIAL SAMPLING GRID IDENTIFICATION
- 155' x 50' x 3.5' (1) — GRID DIMENSIONS (LxWxD) NO. OF LAYERS
- LOCATION & LIMITS OF INSET A

CLIENT

EXTELL WATERFRONT DEVELOPMENT, LLC

PAULUS, SOKOLOWSKI AND SARTOR, LLC.
67A MOUNTAIN BLVD EXT.
P.O. BOX 4039
WARREN, NJ 07059
PHONE: (732) 560-9700
CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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PROJECT

EXTELL ON THE HUDSON
FORMER BICC
POINT STREET LANDING

CITY OF YONKERS, WESTCHESTER COUNTY, NEW YORK

SHEET TITLE

ATTACHMENT A
EXISTING FILL
SAMPLE LOCATION MAP

PROJECT NO.:	05697-006	DRAWN BY:	NV
SCALE:	AS SHOWN	CHECKED BY:	SC
DATE:	5/17/2018	SHEET	1 OF 1

SHEET NO.

FIGURE-1

FILE NAME: \\psns.local\shares\Projects\05697\005\Design\CAD\C-Cad\Plots\plotSET\005\FIG-1.dwg 24x36 LAST EDIT: 5/16/2018 11:17:13 PM LOGIN: ehrlich

Caporizzo, Scott

From: Hubicki, Matthew S (DEC) <matthew.hubicki@dec.ny.gov>
Sent: Wednesday, May 30, 2018 11:31 AM
To: Caporizzo, Scott
Cc: Crosby, David (DEC); Deyette, Scott (DEC); Mandelbaum, Jack; Salinas, L. Miguel; Szeman, Janos; DiGerolamo, Lisa; 'Hindy Gorelick'; Christine Leas (cleas@sprlaw.com)
Subject: RE: Former BICC Cables Site (NYSDEC Site No. C360051): Existing Fill Sampling Report

Scott – We've reviewed the soil sampling results and photographs from the Existing Fill Report for C360051 BICC Cables. We agree that area test pit 20 requires either further investigation or removal based on number of exceedances of SVOCs above restricted residential & groundwater soil cleanup objectives for the site. No further investigation of test pit area 4 for the one exceedance of TCE.

Thank You
Matt

Matthew Hubicki
Project Manager, Remedial Bureau C
Division of Environmental Remediation

New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014
P: 518-402-9605 | F: 518-402-9679 | matthew.hubicki@dec.ny.gov

www.dec.ny.gov |

From: Caporizzo, Scott [mailto:scaporizzo@psands.com]
Sent: Friday, May 25, 2018 1:33 PM
To: Hubicki, Matthew S (DEC) <matthew.hubicki@dec.ny.gov>
Cc: Crosby, David (DEC) <david.crosby@dec.ny.gov>; Deyette, Scott (DEC) <scott.deyette@dec.ny.gov>; Mandelbaum, Jack <JMandelbaum@extell.com>; Salinas, L. Miguel <lsalinas@psands.com>; Szeman, Janos <jmszeman@psands.com>; DiGerolamo, Lisa <ldigerolamo@psands.com>; 'Hindy Gorelick' <hgorelick@extell.com>; Christine Leas (cleas@sprlaw.com) <cleas@sprlaw.com>
Subject: Former BICC Cables Site (NYSDEC Site No. C360051): Existing Fill Sampling Report

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Good afternoon Matt,

Attached for NYSDEC review is the Former BICC Cables Site (NYSDEC Site No. C360051) Existing Fill Sampling Report which details the results of the NYSDEC-approved Existing Fill Sampling Work Plan, dated April 13, 2018. We appreciate your review of the attached information. Please feel free to contact me with any questions.

Enjoy your holiday weekend.

Scott Caporizzo

o: 914-226-3722
c: 203-252-4015

ELECTRONIC MAIL SUBMISSION

May 25, 2018

Mr. Matthew Hubicki
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7017
Via email to matthew.hubicki@dec.ny.gov

Education
Energy Utility
Hospitality
Public Sector
Real Estate
Science & Technology

RE: *Former BICC Cables Site (Extell Waterfront Development)*
One Point Street
Yonkers, New York, 10701
BCP Site No. C360051
Existing Fill Sampling Report

Dear Mr. Hubicki,

1.0 Introduction

On behalf of Extell Waterfront Development, LLC (Extell), Paulus, Sokolowski and Sartor Engineering, PC (PS&S) has prepared this Existing Fill Sampling Letter Report (Letter Report) detailing the sampling and analysis of approximately 43,000 cubic yards (CY) of existing fill materials placed above the existing asphalt pavement cover system at the above referenced site (the Site). Sampling and analysis was conducted in accordance with the NYSDEC-approved Existing Fill Sampling Work Plan, dated April 13, 2018 (Work Plan).

2.0 Background

As detailed in the Work Plan, beginning in 2015, fill was imported to the Site for elevation grading purposes above the existing asphalt pavement cover system. As documented in Final Engineering Report (FER), dated May 8, 2017, 10,000 cubic yards of Central Park Avenue Project (CPAP) source materials were approved by NYSDEC for import to the Site. In early 2017, an additional 3,000 cubic yards of CPAP source materials were approved by NYSDEC for import to the Site.

As discussed with NYSDEC, PS&S observed in February 2018 that fill had been delivered and placed at the Site above the asphalt pavement cover system for which source location documentation was not submitted to NYSDEC for review and approval prior to import to the Site.

In March 2018, PS&S conducted a topographic survey of the observed limits of fill at the Site above the asphalt pavement cover system. This March 2018 topographic survey was used to estimate the approximate amount of fill placed at the Site above the asphalt pavement cover system by comparing current topographic conditions to the Site's topographic mapping

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prepared by Ward Carpenter in December 2011 (i.e., prior to fill operations above the asphalt pavement cover system). Based on a comparison of the two surveys, it is estimated an approximate 43,000 cubic yard volume differential exists between the two topographic surfaces.

PS&S submitted a Work Plan to the New York State Department of Environmental Conservation (NYSDEC) to characterize the estimated 43,000 cubic yards of fill placed at the Site above the existing asphalt pavement cover system. The Work Plan was approved by NYSDEC on April 13, 2018. The results of this characterization are detailed below.

3.0 Existing Fill Sampling Results

PS&S conducted the Work Plan from April 30, 2018 to May 4, 2018. The Existing Fill Sample Location Map (Attachment A) depicts the Site work areas where fill was previously placed above the asphalt pavement cover separated into 21 approximately 1,000 cubic yard grid units and 11 approximately 2,000 cubic yard grid units (32 grid units in total).

Test pits, approximately 6 feet long by 3 feet wide, were conducted across the vertical profile of each grid unit, with grab and composite sample frequency established using Table 5.4(e)10 of DER-10. The table presented in Attachment B summarizes for each grid: grid dimensions and volume, and sample interval and type. Based on in-field direction from the NYSDEC, test pit TP-19 was relocated (approximately 10 feet to the north of the original proposed location) to address an area of fill materials that exhibited signs of increased debris at the surface. These changes are reflected in Attachment A – Existing Fill Sample Location Map.

Grab samples and composite samples were collected across the vertical profile as the test pit excavation was extended from the current Site grade to the top of the existing asphalt pavement cover system. Three to five discrete samples collected within each test pit comprised a composite sample for that test pit. Sample locations were biased to any locations exhibiting field indicators (visual, odor or PID readings) of greatest contamination, if any. Test Pit Logs are provided as Attachment D and a photographic log is provided at Attachment E.

Grab samples were analyzed for VOCs and composite samples were analyzed for SVOCs, PCBs, Pesticides, Herbicides, and Metals as specified in DER-10, Appendix 5. Sample results were compared to the lesser of the New York State Restricted Residential Use Soil Cleanup Objectives (SCOs) or Protection of Groundwater SCOs, which is the applicable regulatory criteria for imported fill (6 NYCRR 375-6.7(d)(1)(b)), as identified in the Site's SMP. Sample results are detailed in Section 3.1.

3.1 Sample Results Summary

All sample results met the lower of Restricted Residential Use or Protection of Groundwater Soil Cleanup Objectives (SCOs) with the exception of the following.

VOCs

- 2-Butanone detected at 0.13 parts per million (ppm) in sample TP-31_Grab-1; the Protection of Groundwater SCO for this analyte is 0.12 ppm;
- Trichloroethene (TCE) detected at 1.6 parts per million (ppm) in sample TP-4_Grab-1; the Protection of Groundwater SCO for this analyte is 0.47 ppm;

These very low detections above the noted Protection of Groundwater SCOs are considered to be *de minimis* and not indicative of source contamination. Further, acetone was also detected above the Protection of Groundwater SCO (0.05 ppm) in several samples with the highest reported concentration of 0.15 ppm. Acetone is a common artifact of laboratory equipment and at these low concentrations is presumed to be not representative of Source contamination.

SVOCs

Soil was found to exceed allowable constituent levels for SVOCs in the composite sample for only one location, TP-20, as noted below.

- Benzo(a)anthracene detected at 24 parts per million (ppm); the Protection of Groundwater and Restricted Residential SCO for this analyte is 1 ppm;
- Benzo(a)pyrene detected at 19 ppm; the Restricted Residential SCO for this analyte is 1 ppm;
- Benzo(b)fluoranthene detected at 23 ppm; the Restricted Residential SCO for this analyte is 1 ppm and the Protection of Groundwater SCO is 1.7 ppm;
- Benzo(k)fluoranthene detected at 8 parts per million (ppm); the Protection of Groundwater SCO for this analyte is 1.7 ppm and the Restricted Residential SCO is 3.9 ppm;
- Chrysene detected at 21 ppm; the Protection of Groundwater SCO for this analyte is 1 ppm and the Restricted Residential SCO is 3.9 ppm;
- Dibenzo(a,h)anthracene detected at 2.5 ppm; the Restricted Residential SCO for this analyte is 0.33 ppm;
- Indeno(1,2,3-cd)pyrene detected at 12 ppm; the Restricted Residential SCO for this analyte is 0.5 ppm and the Protection of Groundwater SCO is 8.2 ppm;
- 3-Methylphenol/4-Methylphenol detected at 0.4 ppm; the Protection of Groundwater SCO for this analyte is 0.33 ppm; and
- Naphthalene detected at 14 ppm; the Protection of Groundwater SCO for this analyte is 12 ppm.

Work zone real-time monitoring for VOCs and particulates (i.e., dust) was conducted during test pit excavation activities. No VOC or particulate levels above background were reported due to Work Plan activities. Test pit excavation materials were also visually assessed for compliance and field screened with a photo-ionization detector (PID). No elevated PID

readings were recorded during the sampling event. PID readings can be found on the Test Pit Logs (Attachment D).

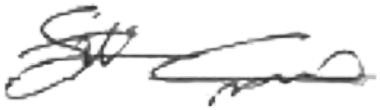
Sample result summary tables are provided as Attachment C and the full analytical lab reports are provided as Attachment F.

4.0 Conclusions and Recommendations

Based on PS&S review of the Work Plan results, it is proposed that the materials representative of TP-20 be further delineated for removal and off-site disposal. All other fill material on Site above the asphalt pavement were observed to be in compliance with criteria for backfill from off-site sources as detailed in Section A-10 of the EWP (Attachment 13 of the SMP). As such, it is recommended that NYSDEC approve use of this fill material on Site above the asphalt pavement cover system.

PS&S appreciates your review of this Report. Should you have any questions or require additional information, please contact me at 914-226-3722 or at scaporizzo@psands.com.

Very truly yours,



Scott P. Caporizzo, E.I.T.
PAULUS, SOKOLOWSKI AND SARTOR ENGINEERING, PC

Attachments:

1. Attachment A – Existing Fill Sample Location Map
2. Attachment B – Test Pit Sample Collection Summary Table
3. Attachment C – Sample Results Summary Tables
4. Attachment D – Test Pit Logs
5. Attachment E – Test Pit Photolog
6. Attachment F – Alpha Analytical Lab Reports

CC: George Heitzman, NYSDEC; David Crosby, NYSDEC; Scott Deyette, NYSDEC; Jack Mandelbaum, Extell; Hindy Gorelick, Extell; M. Salinas, PS&S; J. Szeman, PS&S;

ATTACHMENT A

Existing Fill Sample Location Map



GRAPHIC SCALE

50 0 25 50 100

(IN FEET)

1 inch = 50 ft.

REV. / ISSUE	DATE	DESCRIPTION

CONSULTANT

ORIENTATION / KEY PLAN

LEGEND:

FILL MATERIAL SAMPLING GRID LINE

TP-31 TEST PIT LOCATIONS

LIMITS OF OBSERVED FILL MATERIAL

31 FILL MATERIAL SAMPLING GRID IDENTIFICATION

155' x 50' x 3.5' (1) GRID DIMENSIONS (LxWxD) NO. OF LAYERS

CLIENT

EXTELL WATERFRONT DEVELOPMENT, LLC

PAULUS, SOKOLOWSKI AND SARTOR, LLC.

67A MOUNTAIN BLVD EXT.
P.O. BOX 4039
WARREN, NJ 07059
PHONE: (732) 560-9700

CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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PROJECT

EXTELL ON THE HUDSON
FORMER BICC
POINT STREET LANDING

CITY OF YONKERS, WESTCHESTER COUNTY, NEW YORK

SHEET TITLE

ATTACHMENT A
EXISTING FILL
SAMPLE LOCATION MAP

PROJECT NO.:	05697-006	DRAWN BY:	NV
SCALE:	AS SHOWN	CHECKED BY:	SC
DATE:	5/17/2018	SHEET	1 OF 1

SHEET NO.

FIGURE-1

FILE NAME: P:\05697\05697GIS\GIS\ArcGIS\ArcGISProjects\05697GIS.APRX LAST EDIT: 05/23/2018 11:25:47 AM USER: mlavine
PLOT DATE: 05/23/2018 11:25:48 AM USER: mlavine

ATTACHMENT B

Test Pit Sample Collection Summary Table

Attachment B: Test Pit Sample Collection Summary Table
Former BICC Cables Site
Yonkers, New York
NYSDEC Site Number:C360051

Grid No.	Grid Dimensions (Length x Width x Depth bgs) (ft)	Approximate Grid Volume (CY)	Test Pit ID	Sample Interval (Depth bgs) (ft)	Sample ID	Sample Type
1	55 x 55 x 9.5	1000	TP-1A	0 - 9.5	TP-1A_COMP	Composite
					TP-1A_GRAB-1	Grab
					TP-1A_GRAB-2	Grab
					TP-1A_GRAB-3	Grab
					TP-1A_GRAB-4	Grab
			TP-1B	0 - 9.5	TP-1B_COMP	Composite
					TP-1B_GRAB-1	Grab
					TP-1B_GRAB-2	Grab
					TP-1B_GRAB-3	Grab
2	65 x 55 x 8	1000	TP-2	0 - 8	TP-2_COMP	Composite
					TP-2_GRAB-1	Grab
					TP-2_GRAB-2	Grab
3	65 x 55 x 8	1000	TP-3	0 - 8	TP-3_COMP	Composite
					TP-3_GRAB-1	Grab
					TP-3_GRAB-2	Grab
4	95 x 40 x 7	1000	TP-4	0 - 7	TP-4_COMP	Composite
					TP-4_GRAB-1	Grab
					TP-4_GRAB-2	Grab
5	95 x 70 x 8	2000	TP-5	0 - 4	TP-5A_COMP	Composite
					TP-5A_GRAB-1	Grab
					TP-5A_GRAB-2	Grab
				4 - 8	TP-5B_COMP	Composite
					TP-5B_GRAB-1	Grab
					TP-5B_GRAB-2	Grab
6	80 x 45 x 7.5	1000	TP-6	0 - 7.5	TP-6_COMP	Composite
					TP-6_GRAB-1	Grab
					TP-6_GRAB-2	Grab
7	80 x 80 x 8.5	2000	TP-7	0 - 4.25	TP-7A_COMP	Composite
					TP-7A_GRAB-1	Grab
					TP-7A_GRAB-2	Grab
				4.25 - 8.5	TP-7B_COMP	Composite
					TP-7B_GRAB-1	Grab
					TP-7B_GRAB-2	Grab
8	100 x 50 x 5.5	1000	TP-8	0 - 5.5	TP-8_COMP	Composite
					TP-8_GRAB-1	Grab
					TP-8_GRAB-2	Grab
9	100 x 60 x 9	2000	TP-9	0 - 4.5	TP-9A_COMP	Composite
					TP-9A_GRAB-1	Grab
					TP-9A_GRAB-2	Grab
				4.5 - 9	TP-9B_COMP	Composite
					TP-9B_GRAB-1	Grab
					TP-9B_GRAB-2	Grab
10	100 x 50 x 11	2000	TP-10	0 - 5.5	TP-10A_COMP	Composite
					TP-10A_GRAB-1	Grab
					TP-10A_GRAB-2	Grab
				5.5 - 11	TP-10B_COMP	Composite
					TP-10B_GRAB-1	Grab
					TP-10B_GRAB-2	Grab
11	100 x 50 x 11	2000	TP-11	0 - 5.5	TP-11A_COMP	Composite
					TP-11A_GRAB-1	Grab
					TP-11A_GRAB-2	Grab
				5.5 - 11	TP-11B_COMP	Composite
					TP-11B_GRAB-1	Grab
					TP-11B_GRAB-2	Grab
12	100 x 50 x 5.5	1000	TP-12	0 - 5.5	TP-12_COMP	Composite
					TP-12_GRAB-1	Grab
					TP-12_GRAB-2	Grab
13	100 x 60 x 9	2000	TP-13	0 - 4.5	TP-13A_COMP	Composite
					TP-13A_GRAB-1	Grab
					TP-13A_GRAB-2	Grab
				4.5 - 9	TP-13B_COMP	Composite
					TP-13B_GRAB-1	Grab
					TP-13B_GRAB-2	Grab
14	100 x 50 x 11	2000	TP-14	0 - 5.5	TP-14A_COMP	Composite
					TP-14A_GRAB-1	Grab
					TP-14A_GRAB-2	Grab
				5.5 - 11	TP-14B_COMP	Composite
					TP-14B_GRAB-1	Grab
					TP-14B_GRAB-2	Grab

Attachment B: Test Pit Sample Collection Summary Table
Former BICC Cables Site
Yonkers, New York
NYSDEC Site Number:C360051

Grid No.	Grid Dimensions (Length x Width x Depth bgs) (ft)	Approximate Grid Volume (CY)	Test Pit ID	Sample Interval (Depth bgs) (ft)	Sample ID	Sample Type
15	100 x 50 x 11	2000	TP-15	0 - 5.5	TP-15A_COMP	Composite
					TP-15A_GRAB-1	Grab
					TP-15A_GRAB-2	Grab
				5.5 - 11	TP-15B_COMP	Composite
					TP-15B_GRAB-1	Grab
					TP-15B_GRAB-2	Grab
16	225 x 50 x 2.4	1000	TP-16	0 - 2.4	TP-16_COMP	Composite
					TP-16_GRAB-1	Grab
					TP-16_GRAB-2	Grab
17	115 x 60 x 8	2000	TP-17	0 - 4	TP-17A_COMP	Composite
					TP-17A_GRAB-1	Grab
					TP-17A_GRAB-2	Grab
				4 - 8	TP-17B_COMP	Composite
					TP-17B_GRAB-1	Grab
					TP-17B_GRAB-2	Grab
18	125 x 50 x 8.5	2000	TP-18	0 - 4.25	TP-18A_COMP	Composite
					TP-18A_GRAB-1	Grab
					TP-18A_GRAB-2	Grab
				4.25 - 8.5	TP-18B_COMP	Composite
					TP-18B_GRAB-1	Grab
					TP-18B_GRAB-2	Grab
19	125 x 50 x 8.5	2000	TP-19	0 - 4.25	TP-19A_COMP	Composite
					TP-19A_GRAB-1	Grab
					TP-19A_GRAB-2	Grab
				4.25 - 8.5	TP-19B_COMP	Composite
					TP-19B_GRAB-1	Grab
					TP-19B_GRAB-2	Grab
20	100 x 60 x 4.5	1000	TP-20	0 - 4.5	TP-20_COMP	Composite
					TP-20_GRAB-1	Grab
					TP-20_GRAB-2	Grab
21	100 x 50 x 5.5	1000	TP-21	0 - 5.5	TP-21_COMP	Composite
					TP-21_GRAB-1	Grab
					TP-21_GRAB-2	Grab
22	100 x 50 x 5.5	1000	TP-22	0 - 5.5	TP-22_COMP	Composite
					TP-22_GRAB-1	Grab
					TP-22_GRAB-2	Grab
23	220 x 50 x 2.4	1000	TP-23	0 - 2.4	TP-23_COMP	Composite
					TP-23_GRAB-1	Grab
					TP-23_GRAB-2	Grab
24	150 x 60 x 3	1000	TP-24	0 - 3	TP-24_COMP	Composite
					TP-24_GRAB-1	Grab
					TP-24_GRAB-2	Grab
25	100 x 50 x 5.5	1000	TP-25	0 - 5.5	TP-25_COMP	Composite
					TP-25_GRAB-1	Grab
					TP-25_GRAB-2	Grab
26	100 x 50 x 5.5	1000	TP-26	0 - 5.5	TP-26_COMP	Composite
					TP-26_GRAB-1	Grab
					TP-26_GRAB-2	Grab
27	225 x 60 x 2	1000	TP-27	0 - 2	TP-27_COMP	Composite
					TP-27_GRAB-1	Grab
					TP-27_GRAB-2	Grab
28	120 x 50 x 4.5	1000	TP-28	0 - 4.5	TP-28_COMP	Composite
					TP-28_GRAB-1	Grab
					TP-28_GRAB-2	Grab
29	110 x 50 x 5	1000	TP-29	0 - 5	TP-29_COMP	Composite
					TP-29_GRAB-1	Grab
					TP-29_GRAB-2	Grab
30	155 x 50 x 3.5	1000	TP-30	0 - 3.5	TP-30_COMP	Composite
					TP-30_GRAB-1	Grab
					TP-30_GRAB-2	Grab
31	155 x 50 x3.5	1000	TP-31	0 - 3.5	TP-31_COMP	Composite
					TP-31_GRAB-1	Grab
					TP-31_GRAB-2	Grab
32	150 x 90 x 2	1000	TP-32	0 - 2	TP-32_COMP	Composite
					TP-32_GRAB-1	Grab
					TP-32_GRAB-2	Grab

ATTACHMENT C

Sample Results Summary Tables

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-2_GRAB-1			TP-2_GRAB-2			TP-7A_GRAB-1			TP-7A_GRAB-2			TP-7B_GRAB-1			TP-7B_GRAB-2		
		DEPTH INTERVAL																		
		LAB ID:	L1815263-01			L1815263-02			L1815263-04			L1815263-05			L1815263-07			L1815263-08		
		COLLECTION DATE:	4/30/2018			4/30/2018			4/30/2018			4/30/2018			4/30/2018			4/30/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
VOLATILE ORGANICS BY 8260/5035																				
Methylene chloride	75-09-2	0.05	ND		0.0019	ND		0.0016	ND		0.0016	ND		0.009	ND		0.0016	ND		0.0019
1,1-Dichloroethane	75-34-3	0.27	ND		0.00031	ND		0.00026	ND		0.00027	ND		0.0015	ND		0.00027	ND		0.00031
Chloroform	67-66-3	0.37	ND		0.00042	0.00049	J	0.00035	ND		0.00037	ND		0.002	ND		0.00037	ND		0.00043
Carbon tetrachloride	56-23-5	0.76	ND		0.00039	ND		0.00033	ND		0.00034	ND		0.0019	ND		0.00034	ND		0.0004
1,2-Dichloropropane	78-87-5	NA	ND		0.00026	ND		0.00022	ND		0.00023	ND		0.0012	ND		0.00023	ND		0.00026
Dibromochloromethane	124-48-1	NA	ND		0.0002	ND		0.00017	ND		0.00017	ND		0.00096	ND		0.00017	ND		0.0002
1,1,2-Trichloroethane	79-00-5	NA	ND		0.00036	ND		0.0003	ND		0.00031	ND		0.0017	ND		0.00031	ND		0.00036
Tetrachloroethene	127-18-4	1.3	ND		0.00034	0.0011		0.00029	0.0028		0.0003	ND		0.0016	ND		0.0003	ND		0.00035
Chlorobenzene	108-90-7	1.1	ND		0.00039	ND		0.00033	ND		0.00034	ND		0.0019	ND		0.00035	ND		0.0004
Trichlorofluoromethane	75-69-4	NA	ND		0.00047	ND		0.0004	ND		0.00041	ND		0.0023	ND		0.00041	ND		0.00048
1,2-Dichloroethane	107-06-2	0.02	ND		0.00028	ND		0.00024	ND		0.00024	ND		0.0013	ND		0.00024	ND		0.00028
1,1,1-Trichloroethane	71-55-6	0.68	ND		0.0004	ND		0.00034	ND		0.00035	ND		0.0019	ND		0.00035	ND		0.00041
Bromodichloromethane	75-27-4	NA	ND		0.00035	ND		0.0003	ND		0.0003	ND		0.0017	ND		0.00031	ND		0.00036
trans-1,3-Dichloropropene	10061-02-6	NA	ND		0.00024	ND		0.0002	ND		0.00021	ND		0.0011	ND		0.00021	ND		0.00024
cis-1,3-Dichloropropene	10061-01-5	NA	ND		0.00026	ND		0.00022	ND		0.00023	ND		0.0013	ND		0.00023	ND		0.00027
1,3-Dichloropropene, Total	542-75-6	NA	ND		0.00024	ND		0.0002	ND		0.00021	ND		0.0011	ND		0.00021	ND		0.00024
1,1-Dichloropropene	563-58-6	NA	ND		0.00037	ND		0.00031	ND		0.00032	ND		0.0018	ND		0.00033	ND		0.00038
Bromoform	75-25-2	NA	ND		0.00027	ND		0.00023	ND		0.00024	ND		0.0013	ND		0.00024	ND		0.00028
1,1,2,2-Tetrachloroethane	79-34-5	NA	ND		0.00034	ND		0.00028	ND		0.0003	ND		0.0016	ND		0.0003	ND		0.00035
Benzene	71-43-2	0.06	ND		0.00022	ND		0.00018	ND		0.00019	ND		0.001	ND		0.00019	ND		0.00022
Toluene	108-88-3	0.7	ND		0.00022	ND		0.00019	ND		0.00019	ND		0.0011	ND		0.00019	ND		0.00023
Ethylbenzene	100-41-4	1	ND		0.00019	ND		0.00016	ND		0.00017	ND		0.00093	ND		0.00017	ND		0.0002
Chloromethane	74-87-3	NA	ND		0.00049	ND		0.00042	ND		0.00043	ND		0.0024	ND		0.00043	ND		0.00051
Bromomethane	74-83-9	NA	ND		0.00038	ND		0.00032	ND		0.00034	ND		0.0018	ND		0.00034	ND		0.00039
Vinyl chloride	75-01-4	0.02	ND		0.00036	ND		0.0003	ND		0.00031	ND		0.0017	ND		0.00031	ND		0.00037
Chloroethane	75-00-3	NA	ND		0.00036	ND		0.0003	ND		0.00031	ND		0.0017	ND		0.00031	ND		0.00037
1,1-Dichloroethene	75-35-4	0.33	ND		0.00042	ND		0.00036	ND		0.00037	ND		0.002	ND		0.00037	ND		0.00043
trans-1,2-Dichloroethene	156-60-5	0.19	ND		0.00027	ND		0.00023	ND		0.00024	ND		0.0013	ND		0.00024	ND		0.00028
Trichloroethene	79-01-6	0.47	0.001	J	0.00034	0.00064	J	0.00029	0.058		0.0003	0.0062		0.0016	0.0004	J	0.0003	ND		0.00035
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.00021	ND		0.00017	ND		0.00018	ND		0.001	ND		0.00018	ND		0.00021
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.00025	ND		0.00021	ND		0.00022	ND		0.0012	ND		0.00022	ND		0.00025
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.00021	ND		0.00017	ND		0.00018	ND		0.001	ND		0.00018	ND		0.00021
Methyl tert butyl ether	1634-04-4	0.93	ND		0.00017	ND		0.00015	ND		0.00015	ND		0.00084	ND		0.00015	ND		0.00018
p/m-Xylene	179601-23-1	NA	ND		0.0004	ND		0.00034	ND		0.00035	ND		0.0019	ND		0.00035	ND		0.00041
o-Xylene	95-47-6	NA	ND		0.00038	ND		0.00032	ND		0.00034	ND		0.0018	ND		0.00034	ND		0.00039
Xylenes, Total	1330-20-7	1.6	ND		0.00038	ND		0.00032	ND		0.00034	ND		0.0018	ND		0.00034	ND		0.00039
cis-1,2-Dichloroethene	156-59-2	0.25	ND		0.00039	ND		0.00033	ND		0.00034	ND		0.0019	ND		0.00034	ND		0.0004
1,2-Dichloroethene, Total	540-59-0	NA	ND		0.00027	ND		0.00023	ND		0.00024	ND		0.0013	ND		0.00024	ND		0.00028
Dibromomethane	74-95-3	NA	ND		0.00027	ND		0.00023	ND		0.00024	ND		0.0013	ND		0.00024	ND		0.00028
Styrene	100-42-5	NA	ND		0.00046	ND		0.00038	ND		0.0004	ND		0.0022	ND		0.0004	ND		0.00047
Dichlorodifluoromethane	75-71-8	NA	ND		0.00057	ND		0.00048	ND		0.0005	ND		0.0027	ND		0.0005	ND		0.00058
Acetone	67-64-1	0.05	0.013		0.0026	0.022		0.0022	0.023		0.0023	0.15		0.012	0.034		0.0023	0.043		0.0027
Carbon disulfide	75-15-0	NA	ND		0.0012	ND		0.001	ND		0.0011	ND		0.006	ND		0.0011	ND		0.0013
2-Butanone	78-93-3	0.12	ND		0.00078	ND		0.00066	ND		0.00068	ND		0.0038	ND		0.00069	ND		0.0008
Vinyl acetate	108-05-4	NA	ND		0.00017	ND		0.00015	ND		0.00015	ND		0.00084	ND		0.00015	ND		0.00018
4-Methyl-2-pentanone	108-10-1	NA	ND		0.00028	ND		0.00023	ND		0.00024	ND		0.0013	ND		0.00024	ND		0.00028

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-2_GRAB-1			TP-2_GRAB-2			TP-7A_GRAB-1			TP-7A_GRAB-2			TP-7B_GRAB-1			TP-7B_GRAB-2		
		DEPTH INTERVAL																		
		LAB ID:	L1815263-01			L1815263-02			L1815263-04			L1815263-05			L1815263-07			L1815263-08		
		COLLECTION DATE:	4/30/2018			4/30/2018			4/30/2018			4/30/2018			4/30/2018			4/30/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
VOLATILE ORGANICS BY 8260/5035																				
1,2,3-Trichloropropane	96-18-4	NA	ND		0.0002	ND		0.00017	ND		0.00018	ND		0.00097	ND		0.00018	ND		0.0002
2-Hexanone	591-78-6	NA	ND		0.00076	ND		0.00064	ND		0.00066	ND		0.0036	ND		0.00066	ND		0.00077
Bromochloromethane	74-97-5	NA	ND		0.0004	ND		0.00034	ND		0.00035	ND		0.002	ND		0.00035	ND		0.00041
2,2-Dichloropropane	594-20-7	NA	ND		0.00051	ND		0.00043	ND		0.00045	ND		0.0025	ND		0.00045	ND		0.00052
1,2-Dibromoethane	106-93-4	NA	ND		0.00022	ND		0.00019	ND		0.0002	ND		0.0011	ND		0.0002	ND		0.00023
1,3-Dichloropropane	142-28-9	NA	ND		0.00021	ND		0.00018	ND		0.00018	ND		0.001	ND		0.00018	ND		0.00021
1,1,1,2-Tetrachloroethane	630-20-6	NA	ND		0.00036	ND		0.0003	ND		0.00032	ND		0.0017	ND		0.00032	ND		0.00037
Bromobenzene	108-86-1	NA	ND		0.00025	ND		0.00021	ND		0.00022	ND		0.0012	ND		0.00022	ND		0.00025
n-Butylbenzene	104-51-8	12	ND		0.00026	ND		0.00022	ND		0.00023	ND		0.0012	ND		0.00023	ND		0.00026
sec-Butylbenzene	135-98-8	11	ND		0.00025	ND		0.00021	ND		0.00022	ND		0.0012	ND		0.00022	ND		0.00025
tert-Butylbenzene	98-06-6	5.9	ND		0.00028	ND		0.00024	ND		0.00024	ND		0.0014	ND		0.00024	ND		0.00029
o-Chlorotoluene	95-49-8	NA	ND		0.00025	ND		0.00021	ND		0.00022	ND		0.0012	ND		0.00022	ND		0.00026
p-Chlorotoluene	106-43-4	NA	ND		0.00021	ND		0.00018	ND		0.00018	ND		0.001	ND		0.00018	ND		0.00021
1,2-Dibromo-3-chloropropane	96-12-8	NA	ND		0.00045	ND		0.00038	ND		0.00039	ND		0.0022	ND		0.00039	ND		0.00046
Hexachlorobutadiene	87-68-3	NA	ND		0.00039	ND		0.00033	ND		0.00034	ND		0.0019	ND		0.00035	ND		0.0004
Isopropylbenzene	98-82-8	NA	ND		0.00022	ND		0.00018	ND		0.00019	ND		0.0011	ND		0.00019	ND		0.00022
p-Isopropyltoluene	99-87-6	NA	ND		0.00023	ND		0.00019	ND		0.0002	ND		0.0011	ND		0.0002	ND		0.00023
Naphthalene	91-20-3	12	ND		0.00016	0.0008	J	0.00013	ND		0.00014	ND		0.00075	0.002	J	0.00014	ND		0.00016
Acrylonitrile	107-13-1	NA	ND		0.00058	ND		0.00049	ND		0.00051	ND		0.0028	ND		0.00051	ND		0.0006
n-Propylbenzene	103-65-1	3.9	ND		0.00024	ND		0.0002	ND		0.00021	ND		0.0012	ND		0.00021	ND		0.00025
1,2,3-Trichlorobenzene	87-61-6	NA	ND		0.00028	ND		0.00024	ND		0.00025	ND		0.0014	ND		0.00025	ND		0.00029
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.00024	ND		0.0002	ND		0.00021	ND		0.0012	ND		0.00021	ND		0.00025
1,3,5-Trimethylbenzene	108-67-8	8.4	ND		0.00018	ND		0.00015	ND		0.00016	ND		0.00088	ND		0.00016	ND		0.00019
1,2,4-Trimethylbenzene	95-63-6	3.6	ND		0.00021	0.00033	J	0.00018	ND		0.00018	ND		0.001	ND		0.00018	ND		0.00022
1,4-Dioxane	123-91-1	0.1	ND		0.016	ND		0.014	ND		0.014	ND		0.079	ND		0.014	ND		0.017
p-Diethylbenzene	105-05-5	NA	ND		0.0045	ND		0.0038	ND		0.004	ND		0.022	ND		0.004	ND		0.0046
p-Ethyltoluene	622-96-8	NA	ND		0.00026	ND		0.00022	ND		0.00023	ND		0.0013	ND		0.00023	ND		0.00027
1,2,4,5-Tetramethylbenzene	95-93-2	NA	ND		0.00018	ND		0.00015	ND		0.00015	ND		0.00085	ND		0.00016	ND		0.00018
Ethyl ether	60-29-7	NA	ND		0.0003	ND		0.00025	ND		0.00026	ND		0.0014	ND		0.00026	ND		0.0003
trans-1,4-Dichloro-2-butene	110-57-6	NA	ND		0.00044	ND		0.00038	ND		0.00039	ND		0.0021	ND		0.00039	ND		0.00046
Total VOCs			0.014	-	-	0.02536	-	-	0.0838	-	-	0.1562	-	-	0.0364	-	-	0.043	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-12_GRAB-1			TP-12_GRAB-2			TP-14A_GRAB-1			TP-14A_GRAB-2			TP-14B_GRAB-1			TP-14B_GRAB-2		
		DEPTH INTERVAL																		
		LAB ID:	L1815263-10			L1815263-11			L1815263-13			L1815263-14			L1815263-16			L1815263-17		
		COLLECTION DATE:	4/30/2018			4/30/2018			4/30/2018			4/30/2018			4/30/2018			4/30/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
VOLATILE ORGANICS BY 8260/5035																				
Methylene chloride	75-09-2	0.05	ND		0.0012	ND		0.0014	ND		0.0014	ND		0.0024	ND		0.0018	ND		0.0015
1,1-Dichloroethane	75-34-3	0.27	ND		0.0002	ND		0.00022	ND		0.00023	ND		0.00039	ND		0.00029	ND		0.00024
Chloroform	67-66-3	0.37	ND		0.00028	ND		0.00031	ND		0.00031	ND		0.00054	ND		0.0004	ND		0.00033
Carbon tetrachloride	56-23-5	0.76	ND		0.00026	ND		0.00029	ND		0.00029	ND		0.0005	ND		0.00037	ND		0.00031
1,2-Dichloropropane	78-87-5	NA	ND		0.00017	ND		0.00019	ND		0.00019	ND		0.00033	ND		0.00025	ND		0.0002
Dibromochloromethane	124-48-1	NA	ND		0.00013	ND		0.00015	ND		0.00015	ND		0.00026	ND		0.00019	ND		0.00016
1,1,2-Trichloroethane	79-00-5	NA	ND		0.00024	ND		0.00026	ND		0.00027	ND		0.00045	ND		0.00034	ND		0.00028
Tetrachloroethene	127-18-4	1.3	ND		0.00023	ND		0.00025	ND		0.00026	ND		0.00044	ND		0.00033	ND		0.00027
Chlorobenzene	108-90-7	1.1	ND		0.00026	ND		0.00029	ND		0.0003	ND		0.0005	ND		0.00038	ND		0.00031
Trichlorofluoromethane	75-69-4	NA	ND		0.00031	ND		0.00035	ND		0.00035	ND		0.0006	ND		0.00045	ND		0.00038
1,2-Dichloroethane	107-06-2	0.02	ND		0.00018	ND		0.0002	ND		0.00021	ND		0.00036	ND		0.00026	ND		0.00022
1,1,1-Trichloroethane	71-55-6	0.68	ND		0.00026	ND		0.00029	ND		0.0003	ND		0.00051	ND		0.00038	ND		0.00032
Bromodichloromethane	75-27-4	NA	ND		0.00023	ND		0.00026	ND		0.00026	ND		0.00045	ND		0.00033	ND		0.00028
trans-1,3-Dichloropropene	10061-02-6	NA	ND		0.00016	ND		0.00017	ND		0.00018	ND		0.0003	ND		0.00022	ND		0.00019
cis-1,3-Dichloropropene	10061-01-5	NA	ND		0.00017	ND		0.00019	ND		0.0002	ND		0.00034	ND		0.00025	ND		0.00021
1,3-Dichloropropene, Total	542-75-6	NA	ND		0.00016	ND		0.00017	ND		0.00018	ND		0.0003	ND		0.00022	ND		0.00019
1,1-Dichloropropene	563-58-6	NA	ND		0.00025	ND		0.00027	ND		0.00028	ND		0.00048	ND		0.00035	ND		0.0003
Bromoform	75-25-2	NA	ND		0.00018	ND		0.0002	ND		0.0002	ND		0.00034	ND		0.00026	ND		0.00021
1,1,2,2-Tetrachloroethane	79-34-5	NA	ND		0.00022	ND		0.00025	ND		0.00025	ND		0.00043	ND		0.00032	ND		0.00027
Benzene	71-43-2	0.06	ND		0.00014	ND		0.00016	ND		0.00016	ND		0.00028	ND		0.00021	ND		0.00017
Toluene	108-88-3	0.7	ND		0.00015	ND		0.00016	ND		0.00016	ND		0.00028	ND		0.00021	ND		0.00018
Ethylbenzene	100-41-4	1	ND		0.00013	ND		0.00014	ND		0.00014	ND		0.00025	ND		0.00018	ND		0.00015
Chloromethane	74-87-3	NA	ND		0.00033	ND		0.00036	ND		0.00037	ND		0.00063	ND		0.00047	ND		0.00039
Bromomethane	74-83-9	NA	ND		0.00025	ND		0.00028	ND		0.00029	ND		0.00049	ND		0.00036	ND		0.0003
Vinyl chloride	75-01-4	0.02	ND		0.00024	ND		0.00026	ND		0.00027	ND		0.00046	ND		0.00034	ND		0.00028
Chloroethane	75-00-3	NA	ND		0.00024	ND		0.00026	ND		0.00027	ND		0.00046	ND		0.00034	ND		0.00028
1,1-Dichloroethene	75-35-4	0.33	ND		0.00028	ND		0.00031	ND		0.00032	ND		0.00054	ND		0.0004	ND		0.00033
trans-1,2-Dichloroethene	156-60-5	0.19	ND		0.00018	ND		0.0002	ND		0.0002	ND		0.00035	ND		0.00026	ND		0.00022
Trichloroethene	79-01-6	0.47	0.0052		0.00023	0.00026	J	0.00025	0.00097		0.00026	0.0038		0.00044	0.00039	J	0.00033	0.0014		0.00027
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.00014	ND		0.00015	ND		0.00015	ND		0.00026	ND		0.0002	ND		0.00016
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.00016	ND		0.00018	ND		0.00018	ND		0.00032	ND		0.00024	ND		0.0002
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.00014	ND		0.00015	ND		0.00015	ND		0.00026	ND		0.0002	ND		0.00016
Methyl tert butyl ether	1634-04-4	0.93	ND		0.00011	ND		0.00013	ND		0.00013	ND		0.00022	ND		0.00016	ND		0.00014
p/m-Xylene	179601-23-1	NA	ND		0.00026	ND		0.00029	ND		0.0003	ND		0.00051	ND		0.00038	ND		0.00032
o-Xylene	95-47-6	NA	ND		0.00025	ND		0.00028	ND		0.00029	ND		0.00049	ND		0.00036	ND		0.0003
Xylenes, Total	1330-20-7	1.6	ND		0.00025	ND		0.00028	ND		0.00029	ND		0.00049	ND		0.00036	ND		0.0003
cis-1,2-Dichloroethene	156-59-2	0.25	ND		0.00026	ND		0.00028	ND		0.00029	ND		0.0005	ND		0.00037	ND		0.00031
1,2-Dichloroethene, Total	540-59-0	NA	ND		0.00018	ND		0.0002	ND		0.0002	ND		0.00035	ND		0.00026	ND		0.00022
Dibromomethane	74-95-3	NA	ND		0.00018	ND		0.0002	ND		0.0002	ND		0.00035	ND		0.00026	ND		0.00022
Styrene	100-42-5	NA	ND		0.0003	ND		0.00033	ND		0.00034	ND		0.00058	ND		0.00043	ND		0.00036
Dichlorodifluoromethane	75-71-8	NA	ND		0.00038	ND		0.00042	ND		0.00042	ND		0.00072	ND		0.00054	ND		0.00045
Acetone	67-64-1	0.05	ND		0.0017	0.017		0.0019	0.0021	J	0.0019	0.014		0.0033	0.025		0.0025	0.019		0.0021
Carbon disulfide	75-15-0	NA	ND		0.00083	ND		0.00091	ND		0.00094	ND		0.0016	ND		0.0012	ND		0.00099
2-Butanone	78-93-3	0.12	ND		0.00052	ND		0.00057	ND		0.00059	ND		0.001	ND		0.00074	ND		0.00062
Vinyl acetate	108-05-4	NA	ND		0.00011	ND		0.00013	ND		0.00013	ND		0.00022	ND		0.00016	ND		0.00014
4-Methyl-2-pentanone	108-10-1	NA	ND		0.00018	ND		0.0002	ND		0.00021	ND		0.00035	ND		0.00026	ND		0.00022

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-12_GRAB-1			TP-12_GRAB-2			TP-14A_GRAB-1			TP-14A_GRAB-2			TP-14B_GRAB-1			TP-14B_GRAB-2		
		DEPTH INTERVAL																		
		LAB ID:	L1815263-10			L1815263-11			L1815263-13			L1815263-14			L1815263-16			L1815263-17		
		COLLECTION DATE:	4/30/2018			4/30/2018			4/30/2018			4/30/2018			4/30/2018			4/30/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
VOLATILE ORGANICS BY 8260/5035																				
1,2,3-Trichloropropane	96-18-4	NA	ND		0.00013	ND		0.00015	ND		0.00015	ND		0.00026	ND		0.00019	ND		0.00016
2-Hexanone	591-78-6	NA	ND		0.0005	ND		0.00055	ND		0.00057	ND		0.00096	ND		0.00072	ND		0.0006
Bromochloromethane	74-97-5	NA	ND		0.00027	ND		0.0003	ND		0.0003	ND		0.00052	ND		0.00038	ND		0.00032
2,2-Dichloropropane	594-20-7	NA	ND		0.00034	ND		0.00037	ND		0.00038	ND		0.00065	ND		0.00049	ND		0.0004
1,2-Dibromoethane	106-93-4	NA	ND		0.00015	ND		0.00016	ND		0.00017	ND		0.00029	ND		0.00022	ND		0.00018
1,3-Dichloropropane	142-28-9	NA	ND		0.00014	ND		0.00015	ND		0.00016	ND		0.00026	ND		0.0002	ND		0.00016
1,1,1,2-Tetrachloroethane	630-20-6	NA	ND		0.00024	ND		0.00026	ND		0.00027	ND		0.00046	ND		0.00034	ND		0.00029
Bromobenzene	108-86-1	NA	ND		0.00016	ND		0.00018	ND		0.00019	ND		0.00032	ND		0.00024	ND		0.0002
n-Butylbenzene	104-51-8	12	ND		0.00017	ND		0.00019	ND		0.00019	ND		0.00033	ND		0.00025	ND		0.0002
sec-Butylbenzene	135-98-8	11	ND		0.00016	ND		0.00018	ND		0.00018	ND		0.00031	ND		0.00023	ND		0.0002
tert-Butylbenzene	98-06-6	5.9	ND		0.00018	ND		0.0002	ND		0.00021	ND		0.00036	ND		0.00027	ND		0.00022
o-Chlorotoluene	95-49-8	NA	ND		0.00016	ND		0.00018	ND		0.00019	ND		0.00032	ND		0.00024	ND		0.0002
p-Chlorotoluene	106-43-4	NA	ND		0.00014	ND		0.00015	ND		0.00016	ND		0.00026	ND		0.0002	ND		0.00016
1,2-Dibromo-3-chloropropane	96-12-8	NA	ND		0.0003	ND		0.00033	ND		0.00034	ND		0.00057	ND		0.00043	ND		0.00036
Hexachlorobutadiene	87-68-3	NA	ND		0.00026	ND		0.00029	ND		0.0003	ND		0.0005	ND		0.00038	ND		0.00031
Isopropylbenzene	98-82-8	NA	ND		0.00014	ND		0.00016	ND		0.00016	ND		0.00028	ND		0.00021	ND		0.00017
p-Isopropyltoluene	99-87-6	NA	ND		0.00015	ND		0.00017	ND		0.00017	ND		0.00029	ND		0.00022	ND		0.00018
Naphthalene	91-20-3	12	0.00038	J	0.0001	ND		0.00011	ND		0.00012	ND		0.0002	ND		0.00015	ND		0.00012
Acrylonitrile	107-13-1	NA	ND		0.00039	ND		0.00043	ND		0.00044	ND		0.00074	ND		0.00056	ND		0.00046
n-Propylbenzene	103-65-1	3.9	ND		0.00016	ND		0.00018	ND		0.00018	ND		0.00031	ND		0.00023	ND		0.00019
1,2,3-Trichlorobenzene	87-61-6	NA	ND		0.00019	ND		0.00021	ND		0.00021	ND		0.00036	ND		0.00027	ND		0.00022
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.00016	ND		0.00018	ND		0.00018	ND		0.00031	ND		0.00023	ND		0.00019
1,3,5-Trimethylbenzene	108-67-8	8.4	0.00013	J	0.00012	ND		0.00013	ND		0.00014	ND		0.00023	ND		0.00017	ND		0.00014
1,2,4-Trimethylbenzene	95-63-6	3.6	0.00015	J	0.00014	ND		0.00015	ND		0.00016	ND		0.00027	ND		0.0002	ND		0.00017
1,4-Dioxane	123-91-1	0.1	ND		0.011	ND		0.012	ND		0.012	ND		0.021	ND		0.016	ND		0.013
p-Diethylbenzene	105-05-5	NA	ND		0.003	ND		0.0033	ND		0.0034	ND		0.0058	ND		0.0043	ND		0.0036
p-Ethyltoluene	622-96-8	NA	ND		0.00018	ND		0.00019	ND		0.0002	ND		0.00034	ND		0.00025	ND		0.00021
1,2,4,5-Tetramethylbenzene	95-93-2	NA	0.00033	J	0.00012	ND		0.00013	ND		0.00013	ND		0.00023	ND		0.00017	ND		0.00014
Ethyl ether	60-29-7	NA	ND		0.0002	ND		0.00022	ND		0.00022	ND		0.00038	ND		0.00028	ND		0.00023
trans-1,4-Dichloro-2-butene	110-57-6	NA	ND		0.00029	ND		0.00032	ND		0.00033	ND		0.00057	ND		0.00042	ND		0.00035
Total VOCs			0.00619	-	-	0.01726	-	-	0.00307	-	-	0.0178	-	-	0.02539	-	-	0.0204	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-20_GRAB-1			TP-20_GRAB-2			TP-22_GRAB-1			TP-22_GRAB-2			TP-28_GRAB-1			TP-28_GRAB-2		
		DEPTH INTERVAL																		
		LAB ID:	L1815263-19			L1815263-20			L1815263-22			L1815263-23			L1815263-25			L1815263-26		
		COLLECTION DATE:	4/30/2018			4/30/2018			4/30/2018			4/30/2018			4/30/2018			4/30/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
VOLATILE ORGANICS BY 8260/5035																				
Methylene chloride	75-09-2	0.05	ND		0.0013	ND		0.0017	ND		0.0017	ND		0.0015	ND		0.0016	ND		0.0018
1,1-Dichloroethane	75-34-3	0.27	ND		0.00022	ND		0.00028	ND		0.00028	ND		0.00024	ND		0.00027	ND		0.00029
Chloroform	67-66-3	0.37	ND		0.0003	ND		0.00038	ND		0.00038	ND		0.00033	ND		0.00036	ND		0.0004
Carbon tetrachloride	56-23-5	0.76	ND		0.00028	ND		0.00036	ND		0.00035	ND		0.00031	ND		0.00034	ND		0.00037
1,2-Dichloropropane	78-87-5	NA	ND		0.00018	ND		0.00024	ND		0.00023	ND		0.0002	ND		0.00022	ND		0.00025
Dibromochloromethane	124-48-1	NA	ND		0.00014	ND		0.00018	ND		0.00018	ND		0.00016	ND		0.00017	ND		0.00019
1,1,2-Trichloroethane	79-00-5	NA	ND		0.00026	ND		0.00032	ND		0.00032	ND		0.00028	ND		0.00031	ND		0.00034
Tetrachloroethene	127-18-4	1.3	ND		0.00025	ND		0.00031	ND		0.00031	ND		0.00027	ND		0.0003	ND		0.00033
Chlorobenzene	108-90-7	1.1	ND		0.00028	ND		0.00036	ND		0.00035	ND		0.00031	ND		0.00034	ND		0.00038
Trichlorofluoromethane	75-69-4	NA	ND		0.00034	ND		0.00043	ND		0.00042	ND		0.00038	ND		0.00041	ND		0.00045
1,2-Dichloroethane	107-06-2	0.02	ND		0.0002	ND		0.00025	ND		0.00025	ND		0.00022	ND		0.00024	ND		0.00027
1,1,1-Trichloroethane	71-55-6	0.68	ND		0.00028	ND		0.00036	ND		0.00036	ND		0.00032	ND		0.00034	ND		0.00038
Bromodichloromethane	75-27-4	NA	ND		0.00025	ND		0.00032	ND		0.00031	ND		0.00028	ND		0.0003	ND		0.00033
trans-1,3-Dichloropropene	10061-02-6	NA	ND		0.00017	ND		0.00021	ND		0.00021	ND		0.00019	ND		0.0002	ND		0.00022
cis-1,3-Dichloropropene	10061-01-5	NA	ND		0.00019	ND		0.00024	ND		0.00024	ND		0.00021	ND		0.00023	ND		0.00025
1,3-Dichloropropene, Total	542-75-6	NA	ND		0.00017	ND		0.00021	ND		0.00021	ND		0.00019	ND		0.0002	ND		0.00022
1,1-Dichloropropene	563-58-6	NA	ND		0.00027	ND		0.00034	ND		0.00033	ND		0.0003	ND		0.00032	ND		0.00036
Bromoform	75-25-2	NA	ND		0.00019	ND		0.00024	ND		0.00024	ND		0.00021	ND		0.00023	ND		0.00026
1,1,2,2-Tetrachloroethane	79-34-5	NA	ND		0.00024	ND		0.00031	ND		0.0003	ND		0.00027	ND		0.00029	ND		0.00032
Benzene	71-43-2	0.06	ND		0.00016	ND		0.0002	ND		0.0002	ND		0.00017	ND		0.00019	ND		0.00021
Toluene	108-88-3	0.7	ND		0.00016	ND		0.0002	ND		0.0002	ND		0.00018	ND		0.00019	ND		0.00021
Ethylbenzene	100-41-4	1	ND		0.00014	ND		0.00018	ND		0.00017	ND		0.00015	ND		0.00017	ND		0.00018
Chloromethane	74-87-3	NA	ND		0.00036	ND		0.00045	ND		0.00044	ND		0.00039	ND		0.00043	ND		0.00047
Bromomethane	74-83-9	NA	ND		0.00028	ND		0.00035	ND		0.00034	0.00053	J	0.0003	ND		0.00033	ND		0.00037
Vinyl chloride	75-01-4	0.02	ND		0.00026	ND		0.00032	ND		0.00032	ND		0.00028	ND		0.00031	ND		0.00034
Chloroethane	75-00-3	NA	ND		0.00026	ND		0.00033	ND		0.00032	ND		0.00028	ND		0.00031	ND		0.00034
1,1-Dichloroethene	75-35-4	0.33	ND		0.0003	ND		0.00038	ND		0.00038	ND		0.00034	ND		0.00037	ND		0.0004
trans-1,2-Dichloroethene	156-60-5	0.19	ND		0.0002	ND		0.00025	ND		0.00024	ND		0.00022	ND		0.00024	ND		0.00026
Trichloroethene	79-01-6	0.47	ND		0.00025	ND		0.00031	ND		0.00031	ND		0.00027	ND		0.0003	ND		0.00033
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.00015	ND		0.00019	ND		0.00018	ND		0.00016	ND		0.00018	ND		0.0002
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.00018	ND		0.00022	ND		0.00022	ND		0.0002	ND		0.00022	ND		0.00024
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.00015	ND		0.00019	ND		0.00018	ND		0.00016	ND		0.00018	ND		0.0002
Methyl tert butyl ether	1634-04-4	0.93	ND		0.00012	ND		0.00016	ND		0.00016	ND		0.00014	ND		0.00015	ND		0.00016
p/m-Xylene	179601-23-1	NA	ND		0.00029	ND		0.00036	ND		0.00036	ND		0.00032	ND		0.00035	ND		0.00038
o-Xylene	95-47-6	NA	ND		0.00028	ND		0.00035	ND		0.00034	ND		0.0003	ND		0.00033	ND		0.00037
Xylenes, Total	1330-20-7	1.6	ND		0.00028	ND		0.00035	ND		0.00034	ND		0.0003	ND		0.00033	ND		0.00037
cis-1,2-Dichloroethene	156-59-2	0.25	ND		0.00028	ND		0.00035	ND		0.00035	ND		0.00031	ND		0.00034	ND		0.00037
1,2-Dichloroethene, Total	540-59-0	NA	ND		0.0002	ND		0.00025	ND		0.00024	ND		0.00022	ND		0.00024	ND		0.00026
Dibromomethane	74-95-3	NA	ND		0.00019	ND		0.00025	ND		0.00024	ND		0.00022	ND		0.00024	ND		0.00026
Styrene	100-42-5	NA	ND		0.00033	ND		0.00041	ND		0.00041	ND		0.00036	ND		0.0004	ND		0.00043
Dichlorodifluoromethane	75-71-8	NA	ND		0.00041	ND		0.00052	ND		0.00051	ND		0.00045	ND		0.00049	ND		0.00054
Acetone	67-64-1	0.05	ND		0.0019	0.056		0.0024	ND		0.0023	0.0021	J	0.0021	0.0083	J	0.0023	0.0069	J	0.0025
Carbon disulfide	75-15-0	NA	ND		0.0009	ND		0.0011	ND		0.0011	ND		0.00099	ND		0.0011	ND		0.0012
2-Butanone	78-93-3	0.12	ND		0.00056	ND		0.00071	ND		0.0007	ND		0.00062	ND		0.00068	ND		0.00075
Vinyl acetate	108-05-4	NA	ND		0.00012	ND		0.00016	ND		0.00016	ND		0.00014	ND		0.00015	ND		0.00016
4-Methyl-2-pentanone	108-10-1	NA	ND		0.0002	ND		0.00025	ND		0.00025	ND		0.00022	ND		0.00024	ND		0.00026

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-20_GRAB-1			TP-20_GRAB-2			TP-22_GRAB-1			TP-22_GRAB-2			TP-28_GRAB-1			TP-28_GRAB-2		
		DEPTH INTERVAL																		
		LAB ID:	L1815263-19			L1815263-20			L1815263-22			L1815263-23			L1815263-25			L1815263-26		
		COLLECTION DATE:	4/30/2018			4/30/2018			4/30/2018			4/30/2018			4/30/2018			4/30/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
VOLATILE ORGANICS BY 8260/5035																				
1,2,3-Trichloropropane	96-18-4	NA	ND		0.00014	ND		0.00018	ND		0.00018	ND		0.00016	ND		0.00017	ND		0.00019
2-Hexanone	591-78-6	NA	ND		0.00054	ND		0.00069	ND		0.00068	ND		0.0006	ND		0.00066	ND		0.00072
Bromochloromethane	74-97-5	NA	ND		0.00029	ND		0.00037	ND		0.00036	ND		0.00032	ND		0.00035	ND		0.00039
2,2-Dichloropropane	594-20-7	NA	ND		0.00037	ND		0.00046	ND		0.00046	ND		0.0004	ND		0.00044	ND		0.00049
1,2-Dibromoethane	106-93-4	NA	ND		0.00016	ND		0.0002	ND		0.0002	ND		0.00018	ND		0.0002	ND		0.00022
1,3-Dichloropropane	142-28-9	NA	ND		0.00015	ND		0.00019	ND		0.00019	ND		0.00016	ND		0.00018	ND		0.0002
1,1,1,2-Tetrachloroethane	630-20-6	NA	ND		0.00026	ND		0.00033	ND		0.00032	ND		0.00029	ND		0.00031	ND		0.00034
Bromobenzene	108-86-1	NA	ND		0.00018	ND		0.00023	ND		0.00022	ND		0.0002	ND		0.00022	ND		0.00024
n-Butylbenzene	104-51-8	12	ND		0.00018	ND		0.00024	ND		0.00023	ND		0.0002	ND		0.00022	ND		0.00025
sec-Butylbenzene	135-98-8	11	ND		0.00018	ND		0.00022	ND		0.00022	ND		0.0002	ND		0.00021	ND		0.00024
tert-Butylbenzene	98-06-6	5.9	ND		0.0002	ND		0.00026	ND		0.00025	ND		0.00022	ND		0.00024	ND		0.00027
o-Chlorotoluene	95-49-8	NA	ND		0.00018	ND		0.00023	ND		0.00022	ND		0.0002	ND		0.00022	ND		0.00024
p-Chlorotoluene	106-43-4	NA	ND		0.00015	ND		0.00019	ND		0.00019	ND		0.00016	ND		0.00018	ND		0.0002
1,2-Dibromo-3-chloropropane	96-12-8	NA	ND		0.00032	ND		0.00041	ND		0.0004	ND		0.00036	ND		0.00039	ND		0.00043
Hexachlorobutadiene	87-68-3	NA	ND		0.00028	ND		0.00036	ND		0.00035	ND		0.00031	ND		0.00034	ND		0.00038
Isopropylbenzene	98-82-8	NA	ND		0.00016	ND		0.0002	ND		0.0002	ND		0.00018	ND		0.00019	ND		0.00021
p-Isopropyltoluene	99-87-6	NA	ND		0.00016	ND		0.00021	ND		0.0002	ND		0.00018	ND		0.0002	ND		0.00022
Naphthalene	91-20-3	12	ND		0.00011	ND		0.00014	ND		0.00014	ND		0.00012	ND		0.00014	ND		0.00015
Acrylonitrile	107-13-1	NA	ND		0.00042	ND		0.00053	ND		0.00052	ND		0.00046	ND		0.00051	ND		0.00056
n-Propylbenzene	103-65-1	3.9	ND		0.00018	ND		0.00022	ND		0.00022	ND		0.00019	ND		0.00021	ND		0.00023
1,2,3-Trichlorobenzene	87-61-6	NA	ND		0.0002	ND		0.00026	ND		0.00026	ND		0.00023	ND		0.00025	ND		0.00027
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.00018	ND		0.00022	ND		0.00022	ND		0.00019	ND		0.00021	ND		0.00023
1,3,5-Trimethylbenzene	108-67-8	8.4	ND		0.00013	ND		0.00017	ND		0.00016	ND		0.00014	ND		0.00016	ND		0.00017
1,2,4-Trimethylbenzene	95-63-6	3.6	ND		0.00015	ND		0.00019	ND		0.00019	ND		0.00017	ND		0.00018	ND		0.0002
1,4-Dioxane	123-91-1	0.1	ND		0.012	ND		0.015	ND		0.015	ND		0.013	ND		0.014	ND		0.016
p-Diethylbenzene	105-05-5	NA	ND		0.0033	ND		0.0041	ND		0.0041	ND		0.0036	ND		0.004	ND		0.0043
p-Ethyltoluene	622-96-8	NA	ND		0.00019	ND		0.00024	ND		0.00024	ND		0.00021	ND		0.00023	ND		0.00025
1,2,4,5-Tetramethylbenzene	95-93-2	NA	ND		0.00013	ND		0.00016	ND		0.00016	ND		0.00014	ND		0.00015	ND		0.00017
Ethyl ether	60-29-7	NA	ND		0.00021	ND		0.00027	ND		0.00026	ND		0.00023	ND		0.00026	ND		0.00028
trans-1,4-Dichloro-2-butene	110-57-6	NA	ND		0.00032	ND		0.0004	ND		0.0004	ND		0.00035	ND		0.00039	ND		0.00042
Total VOCs			-	-	-	0.056	-	-	-	-	-	0.00263	-	-	0.0083	-	-	0.0069	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-1A_GRAB-1			TP-1A_GRAB-2			TP-1A_GRAB-3			TP-1A_GRAB-4			TP-1B_GRAB-1			TP-1B_GRAB-2		
		DEPTH INTERVAL																		
		LAB ID:	L1815546-01			L1815546-02			L1815546-03			L1815546-04			L1815546-06			L1815546-07		
		COLLECTION DATE:	5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
VOLATILE ORGANICS BY 8260/5035																				
Methylene chloride	75-09-2	0.05	ND		0.0015	ND		0.0015	ND		0.0016	ND		0.0018	ND		0.0019	ND		0.0023
1,1-Dichloroethane	75-34-3	0.27	ND		0.00025	ND		0.00025	ND		0.00026	ND		0.00029	ND		0.00031	ND		0.00038
Chloroform	67-66-3	0.37	ND		0.00034	ND		0.00034	ND		0.00036	ND		0.0004	ND		0.00042	ND		0.00052
Carbon tetrachloride	56-23-5	0.76	ND		0.00032	ND		0.00032	ND		0.00033	ND		0.00037	ND		0.00039	ND		0.00049
1,2-Dichloropropane	78-87-5	NA	ND		0.00021	ND		0.00021	ND		0.00022	ND		0.00025	ND		0.00026	ND		0.00032
Dibromochloromethane	124-48-1	NA	ND		0.00016	ND		0.00016	ND		0.00017	ND		0.00019	ND		0.0002	ND		0.00025
1,1,2-Trichloroethane	79-00-5	NA	ND		0.00029	ND		0.00029	ND		0.0003	ND		0.00034	ND		0.00036	ND		0.00044
Tetrachloroethene	127-18-4	1.3	ND		0.00028	ND		0.00028	0.0003	J	0.00029	0.00048	J	0.00033	0.0017		0.00034	ND		0.00043
Chlorobenzene	108-90-7	1.1	ND		0.00032	ND		0.00032	ND		0.00033	ND		0.00038	ND		0.0004	ND		0.00049
Trichlorofluoromethane	75-69-4	NA	ND		0.00038	ND		0.00038	ND		0.0004	ND		0.00045	ND		0.00048	ND		0.00059
1,2-Dichloroethane	107-06-2	0.02	ND		0.00023	ND		0.00022	ND		0.00024	ND		0.00027	ND		0.00028	ND		0.00035
1,1,1-Trichloroethane	71-55-6	0.68	ND		0.00032	ND		0.00032	ND		0.00034	ND		0.00038	ND		0.0004	ND		0.00049
Bromodichloromethane	75-27-4	NA	ND		0.00028	ND		0.00028	ND		0.0003	ND		0.00033	ND		0.00035	ND		0.00044
trans-1,3-Dichloropropene	10061-02-6	NA	ND		0.00019	ND		0.00019	ND		0.0002	ND		0.00022	ND		0.00024	ND		0.00029
cis-1,3-Dichloropropene	10061-01-5	NA	ND		0.00021	ND		0.00021	ND		0.00022	ND		0.00025	ND		0.00026	ND		0.00033
1,3-Dichloropropene, Total	542-75-6	NA	ND		0.00019	ND		0.00019	ND		0.0002	ND		0.00022	ND		0.00024	ND		0.00029
1,1-Dichloropropene	563-58-6	NA	ND		0.0003	ND		0.0003	ND		0.00032	ND		0.00036	ND		0.00037	ND		0.00046
Bromoform	75-25-2	NA	ND		0.00022	ND		0.00022	ND		0.00023	ND		0.00026	ND		0.00027	ND		0.00033
1,1,2,2-Tetrachloroethane	79-34-5	NA	ND		0.00027	ND		0.00027	ND		0.00029	ND		0.00032	ND		0.00034	ND		0.00042
Benzene	71-43-2	0.06	ND		0.00018	ND		0.00018	ND		0.00018	ND		0.00021	ND		0.00022	ND		0.00027
Toluene	108-88-3	0.7	ND		0.00018	ND		0.00018	ND		0.00019	ND		0.00021	ND		0.00022	ND		0.00028
Ethylbenzene	100-41-4	1	ND		0.00016	ND		0.00016	ND		0.00016	ND		0.00018	ND		0.00019	0.00034	J	0.00024
Chloromethane	74-87-3	NA	ND		0.0004	ND		0.0004	ND		0.00042	ND		0.00047	ND		0.0005	ND		0.00062
Bromomethane	74-83-9	NA	ND		0.00031	ND		0.00031	ND		0.00032	ND		0.00037	ND		0.00039	ND		0.00048
Vinyl chloride	75-01-4	0.02	ND		0.00029	ND		0.00029	ND		0.0003	ND		0.00034	ND		0.00036	ND		0.00044
Chloroethane	75-00-3	NA	ND		0.00029	ND		0.00029	ND		0.0003	ND		0.00034	ND		0.00036	ND		0.00045
1,1-Dichloroethene	75-35-4	0.33	ND		0.00034	ND		0.00034	ND		0.00036	ND		0.0004	ND		0.00042	ND		0.00052
trans-1,2-Dichloroethene	156-60-5	0.19	ND		0.00022	ND		0.00022	ND		0.00023	ND		0.00026	ND		0.00028	ND		0.00034
Trichloroethene	79-01-6	0.47	0.0041		0.00028	0.0042		0.00028	0.0079		0.00029	0.0017		0.00033	0.00099	J	0.00034	0.0041		0.00043
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.00017	ND		0.00017	ND		0.00018	ND		0.0002	ND		0.00021	ND		0.00026
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.0002	ND		0.0002	ND		0.00021	ND		0.00024	ND		0.00025	ND		0.00031
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.00017	ND		0.00017	ND		0.00018	ND		0.0002	ND		0.00021	ND		0.00026
Methyl tert butyl ether	1634-04-4	0.93	ND		0.00014	ND		0.00014	ND		0.00015	ND		0.00016	ND		0.00017	ND		0.00022
p/m-Xylene	179601-23-1	NA	ND		0.00032	ND		0.00032	ND		0.00034	ND		0.00038	ND		0.0004	0.0005	J	0.0005
o-Xylene	95-47-6	NA	ND		0.00031	0.0013	J	0.00031	0.0011	J	0.00032	ND		0.00037	ND		0.00039	0.001	J	0.00048
Xylenes, Total	1330-20-7	1.6	ND		0.00031	0.0013	J	0.00031	0.0011	J	0.00032	ND		0.00037	ND		0.00039	0.0015	J	0.00048
cis-1,2-Dichloroethene	156-59-2	0.25	ND		0.00031	ND		0.00031	ND		0.00033	ND		0.00037	ND		0.00039	ND		0.00048
1,2-Dichloroethene, Total	540-59-0	NA	ND		0.00022	ND		0.00022	ND		0.00023	ND		0.00026	ND		0.00028	ND		0.00034
Dibromomethane	74-95-3	NA	ND		0.00022	ND		0.00022	ND		0.00023	ND		0.00026	ND		0.00027	ND		0.00034
Styrene	100-42-5	NA	ND		0.00037	ND		0.00037	ND		0.00038	ND		0.00043	ND		0.00046	ND		0.00057
Dichlorodifluoromethane	75-71-8	NA	ND		0.00046	ND		0.00046	ND		0.00048	ND		0.00054	ND		0.00057	ND		0.00071
Acetone	67-64-1	0.05	0.0032	J	0.0021	0.0049	J	0.0021	0.015		0.0022	0.024		0.0025	0.0066	J	0.0026	0.053		0.0032
Carbon disulfide	75-15-0	NA	ND		0.001	ND		0.001	ND		0.001	ND		0.0012	ND		0.0012	ND		0.0016
2-Butanone	78-93-3	0.12	ND		0.00063	ND		0.00063	ND		0.00066	ND		0.00075	ND		0.00079	0.0035	J	0.00098
Vinyl acetate	108-05-4	NA	ND		0.00014	ND		0.00014	ND		0.00015	ND		0.00016	ND		0.00017	ND		0.00022
4-Methyl-2-pentanone	108-10-1	NA	ND		0.00022	ND		0.00022	ND		0.00023	ND		0.00026	ND		0.00028	ND		0.00034

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-1A_GRAB-1			TP-1A_GRAB-2			TP-1A_GRAB-3			TP-1A_GRAB-4			TP-1B_GRAB-1			TP-1B_GRAB-2		
		DEPTH INTERVAL																		
		LAB ID:	L1815546-01			L1815546-02			L1815546-03			L1815546-04			L1815546-06			L1815546-07		
		COLLECTION DATE:	5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
VOLATILE ORGANICS BY 8260/5035																				
1,2,3-Trichloropropane	96-18-4	NA	ND		0.00016	ND		0.00016	ND		0.00017	ND		0.00019	ND		0.0002	ND		0.00025
2-Hexanone	591-78-6	NA	ND		0.00061	ND		0.00061	ND		0.00064	ND		0.00072	ND		0.00076	ND		0.00094
Bromochloromethane	74-97-5	NA	ND		0.00033	ND		0.00033	ND		0.00034	ND		0.00039	ND		0.00041	ND		0.0005
2,2-Dichloropropane	594-20-7	NA	ND		0.00041	ND		0.00041	ND		0.00043	ND		0.00049	ND		0.00051	ND		0.00064
1,2-Dibromoethane	106-93-4	NA	ND		0.00018	ND		0.00018	ND		0.00019	ND		0.00022	ND		0.00023	ND		0.00028
1,3-Dichloropropane	142-28-9	NA	ND		0.00017	ND		0.00017	ND		0.00018	ND		0.0002	ND		0.00021	ND		0.00026
1,1,1,2-Tetrachloroethane	630-20-6	NA	ND		0.00029	ND		0.00029	ND		0.00031	ND		0.00034	ND		0.00036	ND		0.00045
Bromobenzene	108-86-1	NA	ND		0.0002	ND		0.0002	ND		0.00021	ND		0.00024	ND		0.00025	ND		0.00031
n-Butylbenzene	104-51-8	12	ND		0.00021	ND		0.00021	ND		0.00022	ND		0.00025	ND		0.00026	0.0004	J	0.00032
sec-Butylbenzene	135-98-8	11	ND		0.0002	ND		0.0002	ND		0.00021	ND		0.00024	ND		0.00025	0.00033	J	0.00031
tert-Butylbenzene	98-06-6	5.9	ND		0.00023	ND		0.00023	ND		0.00024	ND		0.00027	ND		0.00028	ND		0.00035
o-Chlorotoluene	95-49-8	NA	ND		0.0002	ND		0.0002	ND		0.00021	ND		0.00024	ND		0.00025	ND		0.00031
p-Chlorotoluene	106-43-4	NA	ND		0.00017	ND		0.00017	ND		0.00018	ND		0.0002	ND		0.00021	ND		0.00026
1,2-Dibromo-3-chloropropane	96-12-8	NA	ND		0.00036	ND		0.00036	ND		0.00038	ND		0.00043	ND		0.00045	ND		0.00056
Hexachlorobutadiene	87-68-3	NA	ND		0.00032	ND		0.00032	ND		0.00033	ND		0.00038	ND		0.0004	ND		0.00049
Isopropylbenzene	98-82-8	NA	ND		0.00018	ND		0.00018	ND		0.00019	ND		0.00021	ND		0.00022	ND		0.00027
p-Isopropyltoluene	99-87-6	NA	ND		0.00018	0.00045	J	0.00018	0.00051	J	0.00019	0.0011		0.00022	ND		0.00023	0.00096	J	0.00028
Naphthalene	91-20-3	12	ND		0.00013	0.00094	J	0.00013	0.0013	J	0.00013	0.00052	J	0.00015	ND		0.00016	0.0023	J	0.0002
Acrylonitrile	107-13-1	NA	ND		0.00047	ND		0.00047	ND		0.00049	ND		0.00056	ND		0.00059	ND		0.00073
n-Propylbenzene	103-65-1	3.9	ND		0.0002	ND		0.0002	ND		0.00021	ND		0.00023	ND		0.00024	ND		0.0003
1,2,3-Trichlorobenzene	87-61-6	NA	ND		0.00023	ND		0.00023	ND		0.00024	ND		0.00027	ND		0.00029	ND		0.00035
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.0002	ND		0.0002	ND		0.00021	ND		0.00023	ND		0.00024	ND		0.0003
1,3,5-Trimethylbenzene	108-67-8	8.4	ND		0.00015	0.0014	J	0.00015	0.0025	J	0.00015	0.00026	J	0.00017	ND		0.00018	0.0021	J	0.00023
1,2,4-Trimethylbenzene	95-63-6	3.6	ND		0.00017	0.00049	J	0.00017	0.00053	J	0.00018	0.00036	J	0.0002	ND		0.00021	0.004	J	0.00026
1,4-Dioxane	123-91-1	0.1	ND		0.013	ND		0.013	ND		0.014	ND		0.016	ND		0.016	ND		0.02
p-Diethylbenzene	105-05-5	NA	ND		0.0037	0.0069		0.0037	0.012		0.0038	ND		0.0043	ND		0.0046	0.0056		0.0056
p-Ethyltoluene	622-96-8	NA	ND		0.00022	0.0022	J	0.00021	0.0026	J	0.00022	0.00038	J	0.00025	ND		0.00027	0.0032	J	0.00033
1,2,4,5-Tetramethylbenzene	95-93-2	NA	ND		0.00014	0.0038		0.00014	0.0056		0.00015	0.00068	J	0.00017	0.00028	J	0.00018	0.0022	J	0.00022
Ethyl ether	60-29-7	NA	ND		0.00024	ND		0.00024	ND		0.00025	ND		0.00028	ND		0.0003	ND		0.00037
trans-1,4-Dichloro-2-butene	110-57-6	NA	ND		0.00036	ND		0.00036	ND		0.00038	ND		0.00042	ND		0.00045	ND		0.00055
Total VOCs			0.0073	-	-	0.02658	-	-	0.04934	-	-	0.02948	-	-	0.00957	-	-	0.08353	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-1B_GRAB-3			TP-3_GRAB-1			TP-3_GRAB-2			TP-4_GRAB-1			TP-4_GRAB-2			TP-5A_GRAB-1		
		DEPTH INTERVAL																		
		LAB ID:	L1815546-08			L1815546-10			L1815546-11			L1815546-13			L1815546-14			L1815546-16		
		COLLECTION DATE:	5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
VOLATILE ORGANICS BY 8260/5035																				
Methylene chloride	75-09-2	0.05	ND		0.0015	ND		0.0017	ND		0.0019	ND		0.092	ND		0.0017	ND		0.0031
1,1-Dichloroethane	75-34-3	0.27	ND		0.00024	ND		0.00028	ND		0.00031	ND		0.015	ND		0.00028	ND		0.00051
Chloroform	67-66-3	0.37	ND		0.00034	ND		0.00039	0.00063	J	0.00042	ND		0.021	ND		0.00039	ND		0.00069
Carbon tetrachloride	56-23-5	0.76	ND		0.00031	ND		0.00036	ND		0.00039	ND		0.019	ND		0.00036	ND		0.00065
1,2-Dichloropropane	78-87-5	NA	ND		0.00021	ND		0.00024	ND		0.00026	ND		0.013	ND		0.00024	ND		0.00043
Dibromochloromethane	124-48-1	NA	ND		0.00016	ND		0.00018	ND		0.0002	ND		0.0099	ND		0.00018	ND		0.00033
1,1,2-Trichloroethane	79-00-5	NA	ND		0.00028	ND		0.00033	ND		0.00036	ND		0.018	ND		0.00033	ND		0.00059
Tetrachloroethene	127-18-4	1.3	0.00068	J	0.00027	ND		0.00032	ND		0.00034	0.11		0.017	ND		0.00032	0.0043		0.00057
Chlorobenzene	108-90-7	1.1	ND		0.00032	ND		0.00036	ND		0.0004	ND		0.02	ND		0.00036	ND		0.00065
Trichlorofluoromethane	75-69-4	NA	ND		0.00038	ND		0.00044	ND		0.00047	ND		0.023	ND		0.00044	ND		0.00078
1,2-Dichloroethane	107-06-2	0.02	ND		0.00022	ND		0.00026	ND		0.00028	ND		0.014	ND		0.00026	ND		0.00046
1,1,1-Trichloroethane	71-55-6	0.68	ND		0.00032	ND		0.00036	ND		0.0004	ND		0.02	ND		0.00037	ND		0.00066
Bromodichloromethane	75-27-4	NA	ND		0.00028	ND		0.00032	ND		0.00035	ND		0.017	ND		0.00032	ND		0.00058
trans-1,3-Dichloropropene	10061-02-6	NA	ND		0.00019	ND		0.00022	ND		0.00024	ND		0.012	ND		0.00022	ND		0.00039
cis-1,3-Dichloropropene	10061-01-5	NA	ND		0.00021	ND		0.00024	ND		0.00026	ND		0.013	ND		0.00024	ND		0.00043
1,3-Dichloropropene, Total	542-75-6	NA	ND		0.00019	ND		0.00022	ND		0.00024	ND		0.012	ND		0.00022	ND		0.00039
1,1-Dichloropropene	563-58-6	NA	ND		0.0003	ND		0.00034	ND		0.00037	ND		0.018	ND		0.00034	ND		0.00062
Bromoform	75-25-2	NA	ND		0.00021	ND		0.00025	ND		0.00027	ND		0.013	ND		0.00025	ND		0.00044
1,1,2,2-Tetrachloroethane	79-34-5	NA	ND		0.00027	ND		0.00031	ND		0.00034	ND		0.017	ND		0.00031	ND		0.00056
Benzene	71-43-2	0.06	ND		0.00017	ND		0.0002	ND		0.00022	ND		0.011	ND		0.0002	ND		0.00036
Toluene	108-88-3	0.7	ND		0.00018	ND		0.0002	ND		0.00022	ND		0.011	0.00022	J	0.0002	ND		0.00036
Ethylbenzene	100-41-4	1	ND		0.00015	ND		0.00018	ND		0.00019	ND		0.0095	ND		0.00018	ND		0.00032
Chloromethane	74-87-3	NA	ND		0.0004	ND		0.00046	ND		0.0005	ND		0.024	ND		0.00046	ND		0.00082
Bromomethane	74-83-9	NA	ND		0.00031	ND		0.00035	ND		0.00038	ND		0.019	ND		0.00035	ND		0.00063
Vinyl chloride	75-01-4	0.02	ND		0.00028	ND		0.00033	ND		0.00036	ND		0.018	ND		0.00033	ND		0.00059
Chloroethane	75-00-3	NA	ND		0.00029	ND		0.00033	ND		0.00036	ND		0.018	ND		0.00033	ND		0.00059
1,1-Dichloroethene	75-35-4	0.33	ND		0.00034	ND		0.00039	ND		0.00042	ND		0.021	ND		0.00039	ND		0.0007
trans-1,2-Dichloroethene	156-60-5	0.19	ND		0.00022	ND		0.00025	ND		0.00027	ND		0.014	ND		0.00025	ND		0.00045
Trichloroethene	79-01-6	0.47	0.017		0.00027	0.0071		0.00032	0.0019		0.00034	1.6		0.017	0.0007	J	0.00032	0.058		0.00057
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.00016	ND		0.00019	ND		0.00021	ND		0.01	ND		0.00019	ND		0.00034
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.0002	ND		0.00023	ND		0.00025	ND		0.012	ND		0.00023	ND		0.00041
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.00016	ND		0.00019	ND		0.00021	ND		0.01	ND		0.00019	ND		0.00034
Methyl tert butyl ether	1634-04-4	0.93	ND		0.00014	ND		0.00016	ND		0.00017	ND		0.0086	ND		0.00016	ND		0.00029
p/m-Xylene	179601-23-1	NA	ND		0.00032	ND		0.00037	ND		0.0004	ND		0.02	ND		0.00037	ND		0.00066
o-Xylene	95-47-6	NA	ND		0.00031	ND		0.00035	ND		0.00038	ND		0.019	ND		0.00035	ND		0.00063
Xylenes, Total	1330-20-7	1.6	ND		0.00031	ND		0.00035	ND		0.00038	ND		0.019	ND		0.00035	ND		0.00063
cis-1,2-Dichloroethene	156-59-2	0.25	ND		0.00031	ND		0.00036	ND		0.00039	ND		0.019	ND		0.00036	ND		0.00064
1,2-Dichloroethene, Total	540-59-0	NA	ND		0.00022	ND		0.00025	ND		0.00027	ND		0.014	ND		0.00025	ND		0.00045
Dibromomethane	74-95-3	NA	ND		0.00022	ND		0.00025	ND		0.00027	ND		0.013	ND		0.00025	ND		0.00045
Styrene	100-42-5	NA	ND		0.00036	ND		0.00042	ND		0.00046	ND		0.022	ND		0.00042	ND		0.00075
Dichlorodifluoromethane	75-71-8	NA	ND		0.00045	ND		0.00052	ND		0.00057	ND		0.028	ND		0.00052	ND		0.00094
Acetone	67-64-1	0.05	0.02		0.0021	0.0098	J	0.0024	0.027		0.0026	ND		0.13	0.064		0.0024	ND		0.0043
Carbon disulfide	75-15-0	NA	ND		0.001	ND		0.0011	ND		0.0012	ND		0.062	ND		0.0012	ND		0.0021
2-Butanone	78-93-3	0.12	ND		0.00062	ND		0.00072	ND		0.00078	ND		0.039	0.0076	J	0.00072	ND		0.0013
Vinyl acetate	108-05-4	NA	ND		0.00014	ND		0.00016	ND		0.00017	ND		0.0086	ND		0.00016	ND		0.00029
4-Methyl-2-pentanone	108-10-1	NA	ND		0.00022	ND		0.00025	ND		0.00028	ND		0.014	ND		0.00026	ND		0.00046

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-1B_GRAB-3			TP-3_GRAB-1			TP-3_GRAB-2			TP-4_GRAB-1			TP-4_GRAB-2			TP-5A_GRAB-1		
		DEPTH INTERVAL																		
		LAB ID:	L1815546-08			L1815546-10			L1815546-11			L1815546-13			L1815546-14			L1815546-16		
		COLLECTION DATE:	5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
VOLATILE ORGANICS BY 8260/5035																				
1,2,3-Trichloropropane	96-18-4	NA	ND		0.00016	ND		0.00018	ND		0.0002	ND		0.0099	ND		0.00018	ND		0.00033
2-Hexanone	591-78-6	NA	ND		0.0006	ND		0.0007	ND		0.00076	ND		0.037	ND		0.0007	ND		0.0012
Bromochloromethane	74-97-5	NA	ND		0.00032	ND		0.00037	ND		0.0004	ND		0.02	ND		0.00037	ND		0.00067
2,2-Dichloropropane	594-20-7	NA	ND		0.00041	ND		0.00047	ND		0.00051	ND		0.025	ND		0.00047	ND		0.00084
1,2-Dibromoethane	106-93-4	NA	ND		0.00018	ND		0.00021	ND		0.00023	ND		0.011	ND		0.00021	ND		0.00037
1,3-Dichloropropane	142-28-9	NA	ND		0.00016	ND		0.00019	ND		0.00021	ND		0.01	ND		0.00019	ND		0.00034
1,1,1,2-Tetrachloroethane	630-20-6	NA	ND		0.00029	ND		0.00033	ND		0.00036	ND		0.018	ND		0.00033	ND		0.0006
Bromobenzene	108-86-1	NA	ND		0.0002	ND		0.00023	ND		0.00025	ND		0.012	ND		0.00023	ND		0.00041
n-Butylbenzene	104-51-8	12	ND		0.00021	ND		0.00024	ND		0.00026	ND		0.013	ND		0.00024	ND		0.00043
sec-Butylbenzene	135-98-8	11	ND		0.0002	ND		0.00023	ND		0.00025	ND		0.012	ND		0.00023	ND		0.00041
tert-Butylbenzene	98-06-6	5.9	ND		0.00022	ND		0.00026	ND		0.00028	ND		0.014	ND		0.00026	ND		0.00046
o-Chlorotoluene	95-49-8	NA	ND		0.0002	ND		0.00023	ND		0.00025	ND		0.012	ND		0.00023	ND		0.00041
p-Chlorotoluene	106-43-4	NA	ND		0.00016	ND		0.00019	ND		0.00021	ND		0.01	ND		0.00019	ND		0.00034
1,2-Dibromo-3-chloropropane	96-12-8	NA	ND		0.00036	ND		0.00041	ND		0.00045	ND		0.022	ND		0.00042	ND		0.00074
Hexachlorobutadiene	87-68-3	NA	ND		0.00032	ND		0.00036	ND		0.0004	ND		0.02	ND		0.00036	ND		0.00065
Isopropylbenzene	98-82-8	NA	ND		0.00018	ND		0.0002	ND		0.00022	ND		0.011	ND		0.0002	ND		0.00036
p-Isopropyltoluene	99-87-6	NA	0.00059	J	0.00018	ND		0.00021	ND		0.00023	ND		0.011	0.00039	J	0.00021	ND		0.00038
Naphthalene	91-20-3	12	0.00093	J	0.00012	0.00068	J	0.00014	0.0024	J	0.00016	0.013	J	0.0077	0.00017	J	0.00014	ND		0.00026
Acrylonitrile	107-13-1	NA	ND		0.00046	ND		0.00054	ND		0.00058	ND		0.029	ND		0.00054	ND		0.00096
n-Propylbenzene	103-65-1	3.9	ND		0.00019	ND		0.00022	ND		0.00024	ND		0.012	ND		0.00022	ND		0.0004
1,2,3-Trichlorobenzene	87-61-6	NA	ND		0.00023	ND		0.00026	ND		0.00028	ND		0.014	ND		0.00026	ND		0.00047
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.00019	ND		0.00022	ND		0.00024	ND		0.012	ND		0.00022	ND		0.0004
1,3,5-Trimethylbenzene	108-67-8	8.4	0.00078	J	0.00014	ND		0.00017	ND		0.00018	ND		0.009	ND		0.00017	ND		0.0003
1,2,4-Trimethylbenzene	95-63-6	3.6	ND		0.00017	ND		0.00019	ND		0.00021	ND		0.01	ND		0.0002	ND		0.00035
1,4-Dioxane	123-91-1	0.1	ND		0.013	ND		0.015	ND		0.016	ND		0.81	ND		0.015	ND		0.027
p-Diethylbenzene	105-05-5	NA	ND		0.0036	ND		0.0042	ND		0.0045	ND		0.22	ND		0.0042	ND		0.0075
p-Ethyltoluene	622-96-8	NA	0.0004	J	0.00021	ND		0.00024	ND		0.00026	ND		0.013	ND		0.00024	ND		0.00044
1,2,4,5-Tetramethylbenzene	95-93-2	NA	0.0012	J	0.00014	0.00024	J	0.00016	0.00022	J	0.00018	ND		0.0087	ND		0.00016	ND		0.00029
Ethyl ether	60-29-7	NA	ND		0.00024	ND		0.00027	ND		0.0003	ND		0.014	ND		0.00027	ND		0.00049
trans-1,4-Dichloro-2-butene	110-57-6	NA	ND		0.00036	ND		0.00041	ND		0.00044	ND		0.022	ND		0.00041	ND		0.00074
Total VOCs			0.04158	-	-	0.01782	-	-	0.03215	-	-	1.723	-	-	0.07308	-	-	0.0623	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-5A_GRAB-2			TP-5B_GRAB-1			TP-5B_GRAB-2			TP-6_GRAB-1			TP-6_GRAB-2			TP-8_GRAB-1		
		DEPTH INTERVAL																		
		LAB ID:	L1815546-17			L1815546-19			L1815546-20			L1815546-22			L1815546-23			L1815546-25		
		COLLECTION DATE:	5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
VOLATILE ORGANICS BY 8260/5035																				
Methylene chloride	75-09-2	0.05	ND		0.0022	ND		0.0021	ND		0.0018	ND		0.0018	ND		0.0018	ND		0.0023
1,1-Dichloroethane	75-34-3	0.27	ND		0.00037	ND		0.00034	ND		0.00029	ND		0.0003	ND		0.00029	ND		0.00038
Chloroform	67-66-3	0.37	ND		0.0005	ND		0.00046	ND		0.0004	ND		0.00041	ND		0.0004	ND		0.00052
Carbon tetrachloride	56-23-5	0.76	ND		0.00047	ND		0.00043	ND		0.00037	ND		0.00038	ND		0.00037	ND		0.00048
1,2-Dichloropropane	78-87-5	NA	ND		0.00031	ND		0.00028	ND		0.00024	ND		0.00025	ND		0.00024	ND		0.00032
Dibromochloromethane	124-48-1	NA	ND		0.00024	ND		0.00022	ND		0.00019	ND		0.00019	ND		0.00019	ND		0.00024
1,1,2-Trichloroethane	79-00-5	NA	ND		0.00043	ND		0.00039	ND		0.00034	ND		0.00035	ND		0.00034	ND		0.00044
Tetrachloroethene	127-18-4	1.3	0.00082	J	0.00041	ND		0.00038	ND		0.00032	ND		0.00033	ND		0.00032	ND		0.00042
Chlorobenzene	108-90-7	1.1	ND		0.00047	ND		0.00044	ND		0.00037	ND		0.00038	ND		0.00037	ND		0.00048
Trichlorofluoromethane	75-69-4	NA	ND		0.00057	ND		0.00052	ND		0.00045	ND		0.00046	ND		0.00045	ND		0.00058
1,2-Dichloroethane	107-06-2	0.02	ND		0.00034	ND		0.00031	ND		0.00026	ND		0.00027	ND		0.00026	ND		0.00034
1,1,1-Trichloroethane	71-55-6	0.68	ND		0.00048	ND		0.00044	ND		0.00037	ND		0.00039	ND		0.00038	ND		0.00049
Bromodichloromethane	75-27-4	NA	ND		0.00042	ND		0.00039	ND		0.00033	ND		0.00034	ND		0.00033	ND		0.00043
trans-1,3-Dichloropropene	10061-02-6	NA	ND		0.00028	ND		0.00026	ND		0.00022	ND		0.00023	ND		0.00022	ND		0.00029
cis-1,3-Dichloropropene	10061-01-5	NA	ND		0.00032	ND		0.00029	ND		0.00025	ND		0.00026	ND		0.00025	ND		0.00032
1,3-Dichloropropene, Total	542-75-6	NA	ND		0.00028	ND		0.00026	ND		0.00022	ND		0.00023	ND		0.00022	ND		0.00029
1,1-Dichloropropene	563-58-6	NA	ND		0.00045	ND		0.00041	ND		0.00035	ND		0.00036	ND		0.00035	ND		0.00046
Bromoform	75-25-2	NA	ND		0.00032	ND		0.0003	ND		0.00025	ND		0.00026	ND		0.00025	ND		0.00033
1,1,2,2-Tetrachloroethane	79-34-5	NA	ND		0.00041	ND		0.00037	ND		0.00032	ND		0.00033	ND		0.00032	ND		0.00042
Benzene	71-43-2	0.06	ND		0.00026	ND		0.00024	ND		0.00021	ND		0.00021	ND		0.00021	ND		0.00027
Toluene	108-88-3	0.7	ND		0.00027	ND		0.00024	0.00037	J	0.00021	ND		0.00022	ND		0.00021	ND		0.00027
Ethylbenzene	100-41-4	1	ND		0.00023	ND		0.00021	ND		0.00018	ND		0.00019	ND		0.00018	ND		0.00024
Chloromethane	74-87-3	NA	ND		0.00059	ND		0.00055	ND		0.00047	ND		0.00048	ND		0.00047	ND		0.00061
Bromomethane	74-83-9	NA	ND		0.00046	ND		0.00042	ND		0.00036	ND		0.00037	ND		0.00036	ND		0.00047
Vinyl chloride	75-01-4	0.02	ND		0.00043	ND		0.0004	ND		0.00034	ND		0.00035	ND		0.00034	ND		0.00044
Chloroethane	75-00-3	NA	ND		0.00043	ND		0.0004	ND		0.00034	ND		0.00035	ND		0.00034	ND		0.00044
1,1-Dichloroethene	75-35-4	0.33	ND		0.00051	ND		0.00047	ND		0.0004	ND		0.00041	ND		0.0004	ND		0.00052
trans-1,2-Dichloroethene	156-60-5	0.19	ND		0.00033	ND		0.0003	ND		0.00026	ND		0.00027	ND		0.00026	ND		0.00034
Trichloroethene	79-01-6	0.47	0.0051		0.00041	0.00051	J	0.00038	ND		0.00032	0.0051		0.00033	0.0052		0.00032	0.00054	J	0.00042
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.00025	ND		0.00023	ND		0.00019	ND		0.0002	ND		0.0002	ND		0.00025
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.0003	ND		0.00027	ND		0.00023	ND		0.00024	ND		0.00023	ND		0.0003
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.00025	ND		0.00023	ND		0.00019	ND		0.0002	ND		0.0002	ND		0.00025
Methyl tert butyl ether	1634-04-4	0.93	ND		0.00021	ND		0.00019	ND		0.00016	ND		0.00017	ND		0.00016	ND		0.00021
p/m-Xylene	179601-23-1	NA	ND		0.00048	ND		0.00044	ND		0.00038	ND		0.00039	ND		0.00038	ND		0.00049
o-Xylene	95-47-6	NA	ND		0.00046	ND		0.00042	ND		0.00036	ND		0.00037	ND		0.00036	ND		0.00047
Xylenes, Total	1330-20-7	1.6	ND		0.00046	ND		0.00042	ND		0.00036	ND		0.00037	ND		0.00036	ND		0.00047
cis-1,2-Dichloroethene	156-59-2	0.25	ND		0.00047	ND		0.00043	ND		0.00037	ND		0.00038	ND		0.00037	ND		0.00048
1,2-Dichloroethene, Total	540-59-0	NA	ND		0.00033	ND		0.0003	ND		0.00026	ND		0.00027	ND		0.00026	ND		0.00034
Dibromomethane	74-95-3	NA	ND		0.00033	ND		0.0003	ND		0.00026	ND		0.00026	ND		0.00026	ND		0.00033
Styrene	100-42-5	NA	ND		0.00055	ND		0.0005	ND		0.00043	ND		0.00044	ND		0.00043	ND		0.00056
Dichlorodifluoromethane	75-71-8	NA	ND		0.00068	ND		0.00063	ND		0.00054	ND		0.00055	ND		0.00054	ND		0.0007
Acetone	67-64-1	0.05	0.017		0.0031	ND		0.0029	0.098		0.0024	ND		0.0025	0.011		0.0024	0.0037	J	0.0032
Carbon disulfide	75-15-0	NA	ND		0.0015	ND		0.0014	ND		0.0012	ND		0.0012	ND		0.0012	ND		0.0015
2-Butanone	78-93-3	0.12	ND		0.00094	ND		0.00086	0.018		0.00074	ND		0.00076	ND		0.00074	ND		0.00096
Vinyl acetate	108-05-4	NA	ND		0.00021	ND		0.00019	ND		0.00016	ND		0.00017	ND		0.00016	ND		0.00021
4-Methyl-2-pentanone	108-10-1	NA	ND		0.00033	ND		0.00031	ND		0.00026	ND		0.00027	ND		0.00026	ND		0.00034

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-5A_GRAB-2			TP-5B_GRAB-1			TP-5B_GRAB-2			TP-6_GRAB-1			TP-6_GRAB-2			TP-8_GRAB-1		
		DEPTH INTERVAL																		
		LAB ID:	L1815546-17			L1815546-19			L1815546-20			L1815546-22			L1815546-23			L1815546-25		
		COLLECTION DATE:	5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
VOLATILE ORGANICS BY 8260/5035																				
1,2,3-Trichloropropane	96-18-4	NA	ND		0.00024	ND		0.00022	ND		0.00019	ND		0.0002	ND		0.00019	ND		0.00025
2-Hexanone	591-78-6	NA	ND		0.00091	ND		0.00084	ND		0.00071	ND		0.00074	ND		0.00071	ND		0.00093
Bromochloromethane	74-97-5	NA	ND		0.00049	ND		0.00045	ND		0.00038	ND		0.0004	ND		0.00038	ND		0.0005
2,2-Dichloropropane	594-20-7	NA	ND		0.00061	ND		0.00056	ND		0.00048	ND		0.0005	ND		0.00048	ND		0.00063
1,2-Dibromoethane	106-93-4	NA	ND		0.00027	ND		0.00025	ND		0.00021	ND		0.00022	ND		0.00021	ND		0.00028
1,3-Dichloropropane	142-28-9	NA	ND		0.00025	ND		0.00023	ND		0.0002	ND		0.0002	ND		0.0002	ND		0.00026
1,1,1,2-Tetrachloroethane	630-20-6	NA	ND		0.00043	ND		0.0004	ND		0.00034	ND		0.00035	ND		0.00034	ND		0.00044
Bromobenzene	108-86-1	NA	ND		0.0003	ND		0.00027	ND		0.00023	ND		0.00024	ND		0.00023	ND		0.0003
n-Butylbenzene	104-51-8	12	ND		0.00031	ND		0.00028	ND		0.00024	ND		0.00025	ND		0.00024	ND		0.00032
sec-Butylbenzene	135-98-8	11	ND		0.0003	ND		0.00027	ND		0.00023	ND		0.00024	ND		0.00023	ND		0.0003
tert-Butylbenzene	98-06-6	5.9	ND		0.00034	ND		0.00031	ND		0.00026	ND		0.00027	ND		0.00026	ND		0.00034
o-Chlorotoluene	95-49-8	NA	ND		0.0003	ND		0.00028	ND		0.00024	ND		0.00024	ND		0.00024	ND		0.00031
p-Chlorotoluene	106-43-4	NA	ND		0.00025	ND		0.00023	ND		0.0002	ND		0.0002	ND		0.0002	ND		0.00026
1,2-Dibromo-3-chloropropane	96-12-8	NA	ND		0.00054	ND		0.0005	ND		0.00042	ND		0.00044	ND		0.00042	ND		0.00055
Hexachlorobutadiene	87-68-3	NA	ND		0.00047	ND		0.00044	ND		0.00037	ND		0.00038	ND		0.00037	ND		0.00048
Isopropylbenzene	98-82-8	NA	ND		0.00026	ND		0.00024	ND		0.00021	ND		0.00021	ND		0.00021	ND		0.00027
p-Isopropyltoluene	99-87-6	NA	ND		0.00028	ND		0.00025	0.0003	J	0.00022	ND		0.00022	ND		0.00022	ND		0.00028
Naphthalene	91-20-3	12	ND		0.00019	ND		0.00017	ND		0.00015	ND		0.00015	ND		0.00015	ND		0.00019
Acrylonitrile	107-13-1	NA	ND		0.0007	ND		0.00064	ND		0.00055	ND		0.00057	ND		0.00055	ND		0.00072
n-Propylbenzene	103-65-1	3.9	ND		0.00029	ND		0.00027	ND		0.00023	ND		0.00024	ND		0.00023	ND		0.0003
1,2,3-Trichlorobenzene	87-61-6	NA	ND		0.00034	ND		0.00031	ND		0.00027	ND		0.00028	ND		0.00027	ND		0.00035
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.00029	ND		0.00027	ND		0.00023	ND		0.00024	ND		0.00023	ND		0.0003
1,3,5-Trimethylbenzene	108-67-8	8.4	ND		0.00022	ND		0.0002	ND		0.00017	ND		0.00018	ND		0.00017	ND		0.00022
1,2,4-Trimethylbenzene	95-63-6	3.6	ND		0.00025	ND		0.00023	ND		0.0002	ND		0.0002	ND		0.0002	ND		0.00026
1,4-Dioxane	123-91-1	0.1	ND		0.02	ND		0.018	ND		0.015	ND		0.016	ND		0.015	ND		0.02
p-Diethylbenzene	105-05-5	NA	ND		0.0054	ND		0.005	ND		0.0043	ND		0.0044	ND		0.0043	ND		0.0056
p-Ethyltoluene	622-96-8	NA	ND		0.00032	ND		0.00029	ND		0.00025	ND		0.00026	ND		0.00025	ND		0.00033
1,2,4,5-Tetramethylbenzene	95-93-2	NA	ND		0.00021	ND		0.0002	ND		0.00017	ND		0.00017	ND		0.00017	ND		0.00022
Ethyl ether	60-29-7	NA	ND		0.00035	ND		0.00033	ND		0.00028	ND		0.00029	ND		0.00028	ND		0.00036
trans-1,4-Dichloro-2-butene	110-57-6	NA	ND		0.00053	ND		0.00049	ND		0.00042	ND		0.00043	ND		0.00042	ND		0.00055
Total VOCs			0.02292	-	-	0.00051	-	-	0.11667	-	-	0.0051	-	-	0.0162	-	-	0.00424	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-8_GRAB-2			TP-9A_GRAB-1			TP-9A_GRAB-2			TP-9B_GRAB-1			TP-9B_GRAB-2			TP-10A_GRAB-1		
		DEPTH INTERVAL																		
		LAB ID:	L1815546-26			L1815546-28			L1815546-29			L1815546-31			L1815546-32			L1815546-34		
		COLLECTION DATE:	5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
VOLATILE ORGANICS BY 8260/5035																				
Methylene chloride	75-09-2	0.05	ND		0.0022	ND		0.0018	ND		0.0019	ND		0.0015	ND		0.0024	ND		0.0018
1,1-Dichloroethane	75-34-3	0.27	ND		0.00037	ND		0.00029	ND		0.0003	ND		0.00025	ND		0.0004	ND		0.0003
Chloroform	67-66-3	0.37	ND		0.00051	ND		0.0004	ND		0.00042	ND		0.00034	ND		0.00055	ND		0.0004
Carbon tetrachloride	56-23-5	0.76	ND		0.00047	ND		0.00037	ND		0.00039	ND		0.00032	ND		0.00051	ND		0.00038
1,2-Dichloropropane	78-87-5	NA	ND		0.00031	ND		0.00024	ND		0.00026	ND		0.00021	ND		0.00034	ND		0.00025
Dibromochloromethane	124-48-1	NA	ND		0.00024	ND		0.00019	ND		0.0002	ND		0.00016	ND		0.00026	ND		0.00019
1,1,2-Trichloroethane	79-00-5	NA	ND		0.00043	ND		0.00033	ND		0.00035	ND		0.00029	ND		0.00046	ND		0.00034
Tetrachloroethene	127-18-4	1.3	ND		0.00041	0.001	J	0.00032	ND		0.00034	0.00052	J	0.00028	ND		0.00045	ND		0.00033
Chlorobenzene	108-90-7	1.1	ND		0.00048	ND		0.00037	ND		0.00039	ND		0.00032	ND		0.00051	ND		0.00038
Trichlorofluoromethane	75-69-4	NA	ND		0.00057	ND		0.00044	ND		0.00047	ND		0.00038	ND		0.00062	ND		0.00046
1,2-Dichloroethane	107-06-2	0.02	ND		0.00034	ND		0.00026	ND		0.00028	ND		0.00023	ND		0.00036	ND		0.00027
1,1,1-Trichloroethane	71-55-6	0.68	ND		0.00048	ND		0.00037	ND		0.0004	ND		0.00032	ND		0.00052	ND		0.00038
Bromodichloromethane	75-27-4	NA	ND		0.00042	ND		0.00033	ND		0.00035	ND		0.00028	ND		0.00046	ND		0.00034
trans-1,3-Dichloropropene	10061-02-6	NA	ND		0.00028	ND		0.00022	ND		0.00024	ND		0.00019	ND		0.00031	ND		0.00023
cis-1,3-Dichloropropene	10061-01-5	NA	ND		0.00032	ND		0.00025	ND		0.00026	ND		0.00021	ND		0.00034	ND		0.00025
1,3-Dichloropropene, Total	542-75-6	NA	ND		0.00028	ND		0.00022	ND		0.00024	ND		0.00019	ND		0.00031	ND		0.00023
1,1-Dichloropropene	563-58-6	NA	ND		0.00045	ND		0.00035	ND		0.00037	ND		0.0003	ND		0.00048	ND		0.00036
Bromoform	75-25-2	NA	ND		0.00032	ND		0.00025	ND		0.00027	ND		0.00022	ND		0.00035	ND		0.00026
1,1,2,2-Tetrachloroethane	79-34-5	NA	ND		0.00041	ND		0.00032	ND		0.00034	ND		0.00027	ND		0.00044	ND		0.00033
Benzene	71-43-2	0.06	ND		0.00026	ND		0.00021	ND		0.00022	ND		0.00018	ND		0.00028	ND		0.00021
Toluene	108-88-3	0.7	ND		0.00027	ND		0.00021	ND		0.00022	ND		0.00018	ND		0.00029	ND		0.00021
Ethylbenzene	100-41-4	1	ND		0.00023	ND		0.00018	ND		0.00019	ND		0.00016	ND		0.00025	ND		0.00019
Chloromethane	74-87-3	NA	ND		0.0006	ND		0.00046	ND		0.00049	ND		0.0004	ND		0.00064	ND		0.00048
Bromomethane	74-83-9	NA	ND		0.00046	ND		0.00036	ND		0.00038	ND		0.00031	ND		0.0005	ND		0.00037
Vinyl chloride	75-01-4	0.02	ND		0.00043	ND		0.00034	ND		0.00036	ND		0.00029	ND		0.00046	ND		0.00034
Chloroethane	75-00-3	NA	ND		0.00043	ND		0.00034	ND		0.00036	ND		0.00029	ND		0.00047	ND		0.00035
1,1-Dichloroethene	75-35-4	0.33	ND		0.00051	ND		0.0004	ND		0.00042	ND		0.00034	ND		0.00055	ND		0.00041
trans-1,2-Dichloroethene	156-60-5	0.19	ND		0.00033	ND		0.00026	ND		0.00027	ND		0.00022	ND		0.00036	ND		0.00026
Trichloroethene	79-01-6	0.47	ND		0.00041	0.0052		0.00032	0.0082		0.00034	0.015		0.00028	ND		0.00045	0.0057		0.00033
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.00025	ND		0.00019	ND		0.0002	ND		0.00017	ND		0.00027	ND		0.0002
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.0003	ND		0.00023	ND		0.00025	ND		0.0002	ND		0.00032	ND		0.00024
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.00025	ND		0.00019	ND		0.0002	ND		0.00017	ND		0.00027	ND		0.0002
Methyl tert butyl ether	1634-04-4	0.93	ND		0.00021	ND		0.00016	ND		0.00017	ND		0.00014	ND		0.00023	ND		0.00017
p/m-Xylene	179601-23-1	NA	ND		0.00048	ND		0.00037	ND		0.0004	ND		0.00032	ND		0.00052	ND		0.00038
o-Xylene	95-47-6	NA	ND		0.00046	ND		0.00036	ND		0.00038	ND		0.00031	ND		0.0005	ND		0.00037
Xylenes, Total	1330-20-7	1.6	ND		0.00046	ND		0.00036	ND		0.00038	ND		0.00031	ND		0.0005	ND		0.00037
cis-1,2-Dichloroethene	156-59-2	0.25	ND		0.00047	ND		0.00036	ND		0.00039	0.00091	J	0.00031	ND		0.0005	ND		0.00038
1,2-Dichloroethene, Total	540-59-0	NA	ND		0.00033	ND		0.00026	ND		0.00027	0.00091	J	0.00022	ND		0.00036	ND		0.00026
Dibromomethane	74-95-3	NA	ND		0.00033	ND		0.00026	ND		0.00027	ND		0.00022	ND		0.00035	ND		0.00026
Styrene	100-42-5	NA	ND		0.00055	ND		0.00043	ND		0.00045	ND		0.00037	ND		0.00059	ND		0.00044
Dichlorodifluoromethane	75-71-8	NA	ND		0.00068	ND		0.00053	ND		0.00056	ND		0.00046	ND		0.00074	ND		0.00055
Acetone	67-64-1	0.05	0.015		0.0031	0.0046	J	0.0024	0.0047	J	0.0026	0.0097		0.0021	0.022		0.0034	ND		0.0025
Carbon disulfide	75-15-0	NA	ND		0.0015	ND		0.0012	ND		0.0012	ND		0.001	ND		0.0016	ND		0.0012
2-Butanone	78-93-3	0.12	ND		0.00094	ND		0.00074	ND		0.00078	ND		0.00063	ND		0.001	ND		0.00076
Vinyl acetate	108-05-4	NA	ND		0.00021	ND		0.00016	ND		0.00017	ND		0.00014	ND		0.00023	ND		0.00017
4-Methyl-2-pentanone	108-10-1	NA	ND		0.00033	ND		0.00026	ND		0.00028	ND		0.00022	ND		0.00036	ND		0.00027

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-8_GRAB-2			TP-9A_GRAB-1			TP-9A_GRAB-2			TP-9B_GRAB-1			TP-9B_GRAB-2			TP-10A_GRAB-1		
		DEPTH INTERVAL																		
		LAB ID:	L1815546-26			L1815546-28			L1815546-29			L1815546-31			L1815546-32			L1815546-34		
		COLLECTION DATE:	5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
VOLATILE ORGANICS BY 8260/5035																				
1,2,3-Trichloropropane	96-18-4	NA	ND		0.00024	ND		0.00019	ND		0.0002	ND		0.00016	ND		0.00026	ND		0.00019
2-Hexanone	591-78-6	NA	ND		0.00091	ND		0.00071	ND		0.00075	ND		0.00061	ND		0.00098	ND		0.00073
Bromochloromethane	74-97-5	NA	ND		0.00049	ND		0.00038	ND		0.0004	ND		0.00033	ND		0.00053	ND		0.00039
2,2-Dichloropropane	594-20-7	NA	ND		0.00062	ND		0.00048	ND		0.00051	ND		0.00041	ND		0.00066	ND		0.00049
1,2-Dibromoethane	106-93-4	NA	ND		0.00027	ND		0.00021	ND		0.00022	ND		0.00018	ND		0.00029	ND		0.00022
1,3-Dichloropropane	142-28-9	NA	ND		0.00025	ND		0.0002	ND		0.00021	ND		0.00017	ND		0.00027	ND		0.0002
1,1,1,2-Tetrachloroethane	630-20-6	NA	ND		0.00044	ND		0.00034	ND		0.00036	ND		0.00029	ND		0.00047	ND		0.00035
Bromobenzene	108-86-1	NA	ND		0.0003	ND		0.00023	ND		0.00025	ND		0.0002	ND		0.00032	ND		0.00024
n-Butylbenzene	104-51-8	12	ND		0.00031	ND		0.00024	ND		0.00026	ND		0.00021	ND		0.00034	ND		0.00025
sec-Butylbenzene	135-98-8	11	ND		0.0003	ND		0.00023	ND		0.00024	ND		0.0002	ND		0.00032	ND		0.00024
tert-Butylbenzene	98-06-6	5.9	ND		0.00034	ND		0.00026	ND		0.00028	ND		0.00023	ND		0.00036	ND		0.00027
o-Chlorotoluene	95-49-8	NA	ND		0.0003	ND		0.00024	ND		0.00025	ND		0.0002	ND		0.00033	ND		0.00024
p-Chlorotoluene	106-43-4	NA	ND		0.00025	ND		0.0002	ND		0.00021	ND		0.00017	ND		0.00027	ND		0.0002
1,2-Dibromo-3-chloropropane	96-12-8	NA	ND		0.00054	ND		0.00042	ND		0.00045	ND		0.00036	ND		0.00058	ND		0.00043
Hexachlorobutadiene	87-68-3	NA	ND		0.00048	ND		0.00037	ND		0.00039	ND		0.00032	ND		0.00051	ND		0.00038
Isopropylbenzene	98-82-8	NA	ND		0.00026	ND		0.00021	ND		0.00022	ND		0.00018	ND		0.00029	ND		0.00021
p-Isopropyltoluene	99-87-6	NA	ND		0.00028	ND		0.00022	ND		0.00023	ND		0.00018	ND		0.0003	ND		0.00022
Naphthalene	91-20-3	12	ND		0.00019	0.00017	J	0.00015	ND		0.00016	ND		0.00013	ND		0.0002	ND		0.00015
Acrylonitrile	107-13-1	NA	ND		0.0007	ND		0.00055	ND		0.00058	ND		0.00047	ND		0.00076	ND		0.00056
n-Propylbenzene	103-65-1	3.9	ND		0.00029	ND		0.00023	ND		0.00024	ND		0.0002	ND		0.00032	ND		0.00024
1,2,3-Trichlorobenzene	87-61-6	NA	ND		0.00034	ND		0.00027	ND		0.00028	ND		0.00023	ND		0.00037	ND		0.00028
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.00029	ND		0.00023	ND		0.00024	ND		0.0002	ND		0.00032	ND		0.00024
1,3,5-Trimethylbenzene	108-67-8	8.4	ND		0.00022	ND		0.00017	ND		0.00018	ND		0.00015	ND		0.00024	ND		0.00018
1,2,4-Trimethylbenzene	95-63-6	3.6	ND		0.00025	ND		0.0002	ND		0.00021	ND		0.00017	ND		0.00028	ND		0.0002
1,4-Dioxane	123-91-1	0.1	ND		0.02	ND		0.015	ND		0.016	ND		0.013	ND		0.021	ND		0.016
p-Diethylbenzene	105-05-5	NA	ND		0.0055	ND		0.0043	ND		0.0045	ND		0.0037	ND		0.0059	ND		0.0044
p-Ethyltoluene	622-96-8	NA	ND		0.00032	ND		0.00025	ND		0.00026	ND		0.00022	ND		0.00035	ND		0.00026
1,2,4,5-Tetramethylbenzene	95-93-2	NA	ND		0.00021	ND		0.00017	ND		0.00018	ND		0.00014	ND		0.00023	ND		0.00017
Ethyl ether	60-29-7	NA	ND		0.00036	ND		0.00028	ND		0.00029	ND		0.00024	ND		0.00038	ND		0.00028
trans-1,4-Dichloro-2-butene	110-57-6	NA	ND		0.00054	ND		0.00042	ND		0.00044	ND		0.00036	ND		0.00058	ND		0.00043
Total VOCs			0.015	-	-	0.01097	-	-	0.0129	-	-	0.02613	-	-	0.022	-	-	0.0057	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-10A_GRAB-2			TP-10B_GRAB-1			TP-10B_GRAB-2			TP-11A_GRAB-1			TP-11A_GRAB-2			TP-11B_GRAB-1		
		DEPTH INTERVAL																		
		LAB ID:	L1815546-35			L1815546-37			L1815546-38			L1815750-01			L1815750-02			L1815750-04		
		COLLECTION DATE:	5/1/2018			5/1/2018			5/1/2018			5/2/2018			5/2/2018			5/2/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
VOLATILE ORGANICS BY 8260/5035																				
Methylene chloride	75-09-2	0.05	ND		0.002	ND		0.0028	ND		0.0022	ND		0.0019	ND		0.0022	ND		0.0018
1,1-Dichloroethane	75-34-3	0.27	ND		0.00033	ND		0.00046	ND		0.00037	ND		0.00032	ND		0.00036	ND		0.0003
Chloroform	67-66-3	0.37	ND		0.00045	ND		0.00063	ND		0.0005	ND		0.00043	ND		0.00049	ND		0.00041
Carbon tetrachloride	56-23-5	0.76	ND		0.00042	ND		0.00059	ND		0.00047	ND		0.0004	ND		0.00045	ND		0.00038
1,2-Dichloropropane	78-87-5	NA	ND		0.00028	ND		0.00039	ND		0.00031	ND		0.00027	ND		0.0003	ND		0.00025
Dibromochloromethane	124-48-1	NA	ND		0.00022	ND		0.0003	ND		0.00024	ND		0.00021	ND		0.00023	ND		0.0002
1,1,2-Trichloroethane	79-00-5	NA	ND		0.00038	ND		0.00054	ND		0.00043	ND		0.00037	ND		0.00041	ND		0.00035
Tetrachloroethene	127-18-4	1.3	ND		0.00037	ND		0.00052	ND		0.00041	ND		0.00035	0.00059	J	0.0004	0.0013		0.00034
Chlorobenzene	108-90-7	1.1	ND		0.00043	ND		0.0006	ND		0.00048	ND		0.00041	ND		0.00046	ND		0.00039
Trichlorofluoromethane	75-69-4	NA	ND		0.00051	ND		0.00072	ND		0.00057	ND		0.00049	ND		0.00055	ND		0.00046
1,2-Dichloroethane	107-06-2	0.02	ND		0.0003	ND		0.00042	ND		0.00034	ND		0.00029	ND		0.00032	ND		0.00027
1,1,1-Trichloroethane	71-55-6	0.68	ND		0.00043	ND		0.0006	ND		0.00048	ND		0.00041	ND		0.00046	ND		0.00039
Bromodichloromethane	75-27-4	NA	ND		0.00038	ND		0.00053	ND		0.00042	ND		0.00036	ND		0.00041	ND		0.00034
trans-1,3-Dichloropropene	10061-02-6	NA	ND		0.00026	ND		0.00036	ND		0.00028	ND		0.00024	ND		0.00027	ND		0.00023
cis-1,3-Dichloropropene	10061-01-5	NA	ND		0.00028	ND		0.0004	ND		0.00032	ND		0.00027	ND		0.0003	ND		0.00026
1,3-Dichloropropene, Total	542-75-6	NA	ND		0.00026	ND		0.00036	ND		0.00028	ND		0.00024	ND		0.00027	ND		0.00023
1,1-Dichloropropene	563-58-6	NA	ND		0.0004	ND		0.00056	ND		0.00045	ND		0.00038	ND		0.00043	ND		0.00036
Bromoform	75-25-2	NA	ND		0.00029	ND		0.00041	ND		0.00032	ND		0.00028	ND		0.00031	ND		0.00026
1,1,2,2-Tetrachloroethane	79-34-5	NA	ND		0.00036	ND		0.00051	ND		0.00041	ND		0.00035	ND		0.00039	ND		0.00033
Benzene	71-43-2	0.06	ND		0.00024	ND		0.00033	ND		0.00026	ND		0.00023	ND		0.00025	ND		0.00022
Toluene	108-88-3	0.7	ND		0.00024	ND		0.00033	ND		0.00027	ND		0.00023	0.00029	J	0.00026	ND		0.00022
Ethylbenzene	100-41-4	1	ND		0.00021	ND		0.00029	ND		0.00023	ND		0.0002	ND		0.00022	ND		0.00019
Chloromethane	74-87-3	NA	ND		0.00054	ND		0.00075	ND		0.0006	ND		0.00051	ND		0.00057	ND		0.00048
Bromomethane	74-83-9	NA	ND		0.00041	ND		0.00058	ND		0.00046	ND		0.0004	ND		0.00044	ND		0.00038
Vinyl chloride	75-01-4	0.02	ND		0.00039	ND		0.00054	ND		0.00043	ND		0.00037	ND		0.00042	ND		0.00035
Chloroethane	75-00-3	NA	ND		0.00039	ND		0.00054	ND		0.00043	ND		0.00037	ND		0.00042	ND		0.00035
1,1-Dichloroethene	75-35-4	0.33	ND		0.00046	ND		0.00064	ND		0.00051	ND		0.00044	ND		0.00049	ND		0.00041
trans-1,2-Dichloroethene	156-60-5	0.19	ND		0.0003	ND		0.00041	ND		0.00033	ND		0.00028	ND		0.00032	ND		0.00027
Trichloroethene	79-01-6	0.47	0.0046		0.00037	0.0073		0.00052	ND		0.00041	0.00037	J	0.00035	0.013		0.0004	0.021		0.00034
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.00022	ND		0.00031	ND		0.00025	ND		0.00021	ND		0.00024	ND		0.0002
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.00027	ND		0.00037	ND		0.0003	ND		0.00026	ND		0.00029	ND		0.00024
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.00022	ND		0.00031	ND		0.00025	ND		0.00021	ND		0.00024	ND		0.0002
Methyl tert butyl ether	1634-04-4	0.93	ND		0.00019	ND		0.00026	ND		0.00021	ND		0.00018	ND		0.0002	ND		0.00017
p/m-Xylene	179601-23-1	NA	ND		0.00043	ND		0.0006	ND		0.00048	ND		0.00041	ND		0.00046	ND		0.00039
o-Xylene	95-47-6	NA	ND		0.00041	ND		0.00058	ND		0.00046	ND		0.0004	ND		0.00044	ND		0.00038
Xylenes, Total	1330-20-7	1.6	ND		0.00041	ND		0.00058	ND		0.00046	ND		0.0004	ND		0.00044	ND		0.00038
cis-1,2-Dichloroethene	156-59-2	0.25	ND		0.00042	ND		0.00059	ND		0.00047	ND		0.0004	ND		0.00045	ND		0.00038
1,2-Dichloroethene, Total	540-59-0	NA	ND		0.0003	ND		0.00041	ND		0.00033	ND		0.00028	ND		0.00032	ND		0.00027
Dibromomethane	74-95-3	NA	ND		0.00029	ND		0.00041	ND		0.00033	ND		0.00028	ND		0.00032	ND		0.00027
Styrene	100-42-5	NA	ND		0.00049	ND		0.00069	ND		0.00055	ND		0.00047	ND		0.00053	ND		0.00045
Dichlorodifluoromethane	75-71-8	NA	ND		0.00061	ND		0.00086	ND		0.00068	ND		0.00059	ND		0.00066	ND		0.00056
Acetone	67-64-1	0.05	0.0052	J	0.0028	0.011	J	0.0039	0.028		0.0031	0.021		0.0027	ND		0.003	0.0027	J	0.0026
Carbon disulfide	75-15-0	NA	ND		0.0014	ND		0.0019	ND		0.0015	ND		0.0013	ND		0.0014	ND		0.0012
2-Butanone	78-93-3	0.12	ND		0.00085	ND		0.0012	ND		0.00094	ND		0.00081	ND		0.00091	ND		0.00077
Vinyl acetate	108-05-4	NA	ND		0.00019	ND		0.00026	ND		0.00021	ND		0.00018	ND		0.0002	ND		0.00017
4-Methyl-2-pentanone	108-10-1	NA	ND		0.0003	ND		0.00042	ND		0.00033	ND		0.00029	ND		0.00032	ND		0.00027

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-10A_GRAB-2			TP-10B_GRAB-1			TP-10B_GRAB-2			TP-11A_GRAB-1			TP-11A_GRAB-2			TP-11B_GRAB-1		
		DEPTH INTERVAL																		
		LAB ID:	L1815546-35			L1815546-37			L1815546-38			L1815750-01			L1815750-02			L1815750-04		
		COLLECTION DATE:	5/1/2018			5/1/2018			5/1/2018			5/2/2018			5/2/2018			5/2/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
VOLATILE ORGANICS BY 8260/5035																				
1,2,3-Trichloropropane	96-18-4	NA	ND		0.00022	ND		0.0003	ND		0.00024	ND		0.00021	ND		0.00023	ND		0.0002
2-Hexanone	591-78-6	NA	ND		0.00082	ND		0.0011	ND		0.00091	ND		0.00078	ND		0.00088	ND		0.00074
Bromochloromethane	74-97-5	NA	ND		0.00044	ND		0.00061	ND		0.00049	ND		0.00042	ND		0.00047	ND		0.0004
2,2-Dichloropropane	594-20-7	NA	ND		0.00055	ND		0.00077	ND		0.00061	ND		0.00053	ND		0.00059	ND		0.0005
1,2-Dibromoethane	106-93-4	NA	ND		0.00024	ND		0.00034	ND		0.00027	ND		0.00023	ND		0.00026	ND		0.00022
1,3-Dichloropropane	142-28-9	NA	ND		0.00022	ND		0.00031	ND		0.00025	ND		0.00021	ND		0.00024	ND		0.0002
1,1,1,2-Tetrachloroethane	630-20-6	NA	ND		0.00039	ND		0.00054	ND		0.00043	ND		0.00037	ND		0.00042	ND		0.00035
Bromobenzene	108-86-1	NA	ND		0.00027	ND		0.00038	ND		0.0003	ND		0.00026	ND		0.00029	ND		0.00024
n-Butylbenzene	104-51-8	12	ND		0.00028	ND		0.00039	ND		0.00031	ND		0.00027	ND		0.0003	ND		0.00025
sec-Butylbenzene	135-98-8	11	ND		0.00027	ND		0.00037	ND		0.0003	ND		0.00025	ND		0.00029	ND		0.00024
tert-Butylbenzene	98-06-6	5.9	ND		0.0003	ND		0.00042	ND		0.00034	ND		0.00029	ND		0.00032	ND		0.00028
o-Chlorotoluene	95-49-8	NA	ND		0.00027	ND		0.00038	ND		0.0003	ND		0.00026	ND		0.00029	ND		0.00025
p-Chlorotoluene	106-43-4	NA	ND		0.00022	ND		0.00031	ND		0.00025	ND		0.00021	ND		0.00024	ND		0.0002
1,2-Dibromo-3-chloropropane	96-12-8	NA	ND		0.00049	ND		0.00068	ND		0.00054	ND		0.00046	ND		0.00052	ND		0.00044
Hexachlorobutadiene	87-68-3	NA	ND		0.00043	ND		0.0006	ND		0.00048	ND		0.00041	ND		0.00046	ND		0.00039
Isopropylbenzene	98-82-8	NA	ND		0.00024	ND		0.00033	ND		0.00026	ND		0.00023	ND		0.00026	ND		0.00022
p-Isopropyltoluene	99-87-6	NA	ND		0.00025	ND		0.00035	ND		0.00028	ND		0.00024	ND		0.00027	ND		0.00022
Naphthalene	91-20-3	12	ND		0.00017	ND		0.00024	0.00063	J	0.00019	0.0002	J	0.00016	ND		0.00018	ND		0.00015
Acrylonitrile	107-13-1	NA	ND		0.00063	ND		0.00088	ND		0.0007	ND		0.0006	ND		0.00068	ND		0.00057
n-Propylbenzene	103-65-1	3.9	ND		0.00026	ND		0.00037	ND		0.00029	ND		0.00025	ND		0.00028	ND		0.00024
1,2,3-Trichlorobenzene	87-61-6	NA	ND		0.00031	ND		0.00043	ND		0.00034	ND		0.00029	ND		0.00033	ND		0.00028
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.00026	ND		0.00037	ND		0.00029	ND		0.00025	ND		0.00028	ND		0.00024
1,3,5-Trimethylbenzene	108-67-8	8.4	ND		0.0002	ND		0.00028	ND		0.00022	ND		0.00019	ND		0.00021	ND		0.00018
1,2,4-Trimethylbenzene	95-63-6	3.6	ND		0.00023	ND		0.00032	ND		0.00025	0.00023	J	0.00022	ND		0.00024	ND		0.00021
1,4-Dioxane	123-91-1	0.1	ND		0.018	ND		0.025	ND		0.02	ND		0.017	ND		0.019	ND		0.016
p-Diethylbenzene	105-05-5	NA	ND		0.0049	ND		0.0069	ND		0.0055	ND		0.0047	ND		0.0053	ND		0.0044
p-Ethyltoluene	622-96-8	NA	ND		0.00029	ND		0.0004	ND		0.00032	ND		0.00027	ND		0.00031	ND		0.00026
1,2,4,5-Tetramethylbenzene	95-93-2	NA	ND		0.00019	ND		0.00027	ND		0.00021	ND		0.00018	ND		0.0002	ND		0.00017
Ethyl ether	60-29-7	NA	ND		0.00032	ND		0.00044	ND		0.00035	ND		0.0003	ND		0.00034	ND		0.00029
trans-1,4-Dichloro-2-butene	110-57-6	NA	ND		0.00048	ND		0.00067	ND		0.00054	ND		0.00046	ND		0.00052	ND		0.00044
Total VOCs			0.0098	-	-	-	-	-	0.0183	-	-	0.02863	-	-	-	-	-	0.0218	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-11B_GRAB-2			TP-13A_GRAB-1			TP-13A_GRAB-2			TP-13B_GRAB-1			TP-13B_GRAB-2			TP-15A_GRAB-1		
		DEPTH INTERVAL																		
		LAB ID:	L1815750-05			L1815750-07			L1815750-08			L1815750-10			L1815750-11			L1815750-13		
		COLLECTION DATE:	5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
VOLATILE ORGANICS BY 8260/5035																				
Methylene chloride	75-09-2	0.05	ND		0.0031	ND		0.002	ND		0.0018	ND		0.0022	ND		0.0018	ND		0.002
1,1-Dichloroethane	75-34-3	0.27	ND		0.00051	ND		0.00033	ND		0.00029	ND		0.00037	ND		0.00029	ND		0.00033
Chloroform	67-66-3	0.37	ND		0.0007	ND		0.00046	ND		0.0004	ND		0.0005	ND		0.0004	ND		0.00045
Carbon tetrachloride	56-23-5	0.76	ND		0.00066	ND		0.00043	ND		0.00037	ND		0.00047	ND		0.00038	ND		0.00042
1,2-Dichloropropane	78-87-5	NA	ND		0.00043	ND		0.00028	ND		0.00025	ND		0.00031	ND		0.00025	ND		0.00028
Dibromochloromethane	124-48-1	NA	ND		0.00034	ND		0.00022	ND		0.00019	ND		0.00024	ND		0.00019	ND		0.00021
1,1,2-Trichloroethane	79-00-5	NA	ND		0.0006	ND		0.00039	ND		0.00034	ND		0.00043	ND		0.00034	ND		0.00038
Tetrachloroethene	127-18-4	1.3	ND		0.00058	0.0013		0.00037	0.00058	J	0.00033	0.0016		0.00041	ND		0.00033	ND		0.00036
Chlorobenzene	108-90-7	1.1	ND		0.00066	ND		0.00043	ND		0.00038	ND		0.00048	ND		0.00038	ND		0.00042
Trichlorofluoromethane	75-69-4	NA	ND		0.00079	ND		0.00052	ND		0.00045	ND		0.00057	ND		0.00046	ND		0.0005
1,2-Dichloroethane	107-06-2	0.02	ND		0.00047	ND		0.0003	ND		0.00027	ND		0.00034	ND		0.00027	ND		0.0003
1,1,1-Trichloroethane	71-55-6	0.68	ND		0.00067	ND		0.00043	ND		0.00038	ND		0.00048	ND		0.00038	ND		0.00042
Bromodichloromethane	75-27-4	NA	ND		0.00059	ND		0.00038	ND		0.00033	ND		0.00042	ND		0.00034	ND		0.00037
trans-1,3-Dichloropropene	10061-02-6	NA	ND		0.0004	ND		0.00026	ND		0.00022	ND		0.00028	ND		0.00023	ND		0.00025
cis-1,3-Dichloropropene	10061-01-5	NA	ND		0.00044	ND		0.00028	ND		0.00025	ND		0.00032	ND		0.00025	ND		0.00028
1,3-Dichloropropene, Total	542-75-6	NA	ND		0.0004	ND		0.00026	ND		0.00022	ND		0.00028	ND		0.00023	ND		0.00025
1,1-Dichloropropene	563-58-6	NA	ND		0.00062	ND		0.0004	ND		0.00035	ND		0.00045	ND		0.00036	ND		0.0004
Bromoform	75-25-2	NA	ND		0.00045	ND		0.00029	ND		0.00026	ND		0.00032	ND		0.00026	ND		0.00029
1,1,2,2-Tetrachloroethane	79-34-5	NA	ND		0.00057	ND		0.00037	ND		0.00032	ND		0.00041	ND		0.00032	ND		0.00036
Benzene	71-43-2	0.06	ND		0.00037	ND		0.00024	ND		0.00021	ND		0.00026	ND		0.00021	ND		0.00023
Toluene	108-88-3	0.7	ND		0.00037	ND		0.00024	ND		0.00021	ND		0.00027	ND		0.00021	0.00028	J	0.00024
Ethylbenzene	100-41-4	1	ND		0.00032	ND		0.00021	ND		0.00018	ND		0.00023	ND		0.00018	ND		0.0002
Chloromethane	74-87-3	NA	ND		0.00083	ND		0.00054	ND		0.00047	ND		0.0006	ND		0.00048	ND		0.00053
Bromomethane	74-83-9	NA	ND		0.00064	ND		0.00042	ND		0.00036	ND		0.00046	ND		0.00037	ND		0.00041
Vinyl chloride	75-01-4	0.02	ND		0.0006	ND		0.00039	ND		0.00034	ND		0.00043	ND		0.00034	ND		0.00038
Chloroethane	75-00-3	NA	ND		0.0006	ND		0.00039	ND		0.00034	ND		0.00043	ND		0.00034	ND		0.00038
1,1-Dichloroethene	75-35-4	0.33	ND		0.00071	ND		0.00046	ND		0.0004	ND		0.00051	ND		0.00041	ND		0.00045
trans-1,2-Dichloroethene	156-60-5	0.19	ND		0.00046	ND		0.0003	ND		0.00026	ND		0.00033	ND		0.00026	ND		0.00029
Trichloroethene	79-01-6	0.47	ND		0.00058	0.022		0.00037	0.022		0.00033	0.04		0.00041	0.00083	J	0.00033	0.00066	J	0.00036
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.00035	ND		0.00022	ND		0.0002	ND		0.00025	ND		0.0002	ND		0.00022
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.00042	ND		0.00027	ND		0.00024	ND		0.0003	ND		0.00024	ND		0.00026
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.00035	ND		0.00022	ND		0.0002	ND		0.00025	ND		0.0002	ND		0.00022
Methyl tert butyl ether	1634-04-4	0.93	ND		0.00029	ND		0.00019	ND		0.00016	ND		0.00021	ND		0.00017	ND		0.00018
p/m-Xylene	179601-23-1	NA	ND		0.00067	ND		0.00043	ND		0.00038	ND		0.00048	ND		0.00038	ND		0.00042
o-Xylene	95-47-6	NA	ND		0.00064	ND		0.00042	ND		0.00036	ND		0.00046	ND		0.00037	ND		0.00041
Xylenes, Total	1330-20-7	1.6	ND		0.00064	ND		0.00042	ND		0.00036	ND		0.00046	ND		0.00037	ND		0.00041
cis-1,2-Dichloroethene	156-59-2	0.25	ND		0.00065	ND		0.00042	ND		0.00037	0.00097	J	0.00047	ND		0.00037	ND		0.00041
1,2-Dichloroethene, Total	540-59-0	NA	ND		0.00046	ND		0.0003	ND		0.00026	0.00097	J	0.00033	ND		0.00026	ND		0.00029
Dibromomethane	74-95-3	NA	ND		0.00046	ND		0.0003	ND		0.00026	ND		0.00033	ND		0.00026	ND		0.00029
Styrene	100-42-5	NA	ND		0.00076	ND		0.0005	ND		0.00043	ND		0.00055	ND		0.00044	ND		0.00048
Dichlorodifluoromethane	75-71-8	NA	ND		0.00095	ND		0.00062	ND		0.00054	ND		0.00068	ND		0.00054	ND		0.0006
Acetone	67-64-1	0.05	0.076		0.0044	0.0087	J	0.0028	0.0045	J	0.0025	0.018		0.0031	0.044		0.0025	0.029		0.0028
Carbon disulfide	75-15-0	NA	ND		0.0021	ND		0.0014	ND		0.0012	ND		0.0015	ND		0.0012	ND		0.0013
2-Butanone	78-93-3	0.12	ND		0.0013	ND		0.00085	ND		0.00075	ND		0.00094	0.0034	J	0.00075	ND		0.00084
Vinyl acetate	108-05-4	NA	ND		0.00029	ND		0.00019	ND		0.00016	ND		0.00021	ND		0.00017	ND		0.00018
4-Methyl-2-pentanone	108-10-1	NA	ND		0.00046	ND		0.0003	ND		0.00026	ND		0.00033	ND		0.00027	ND		0.0003

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-11B_GRAB-2			TP-13A_GRAB-1			TP-13A_GRAB-2			TP-13B_GRAB-1			TP-13B_GRAB-2			TP-15A_GRAB-1		
		DEPTH INTERVAL																		
		LAB ID:	L1815750-05			L1815750-07			L1815750-08			L1815750-10			L1815750-11			L1815750-13		
		COLLECTION DATE:	5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
VOLATILE ORGANICS BY 8260/5035																				
1,2,3-Trichloropropane	96-18-4	NA	ND		0.00034	ND		0.00022	ND		0.00019	ND		0.00024	ND		0.00019	ND		0.00021
2-Hexanone	591-78-6	NA	ND		0.0013	ND		0.00082	ND		0.00072	ND		0.00091	ND		0.00073	ND		0.00081
Bromochloromethane	74-97-5	NA	ND		0.00068	ND		0.00044	ND		0.00039	ND		0.00049	ND		0.00039	ND		0.00043
2,2-Dichloropropane	594-20-7	NA	ND		0.00086	ND		0.00056	ND		0.00049	ND		0.00061	ND		0.00049	ND		0.00054
1,2-Dibromoethane	106-93-4	NA	ND		0.00038	ND		0.00024	ND		0.00022	ND		0.00027	ND		0.00022	ND		0.00024
1,3-Dichloropropane	142-28-9	NA	ND		0.00035	ND		0.00023	ND		0.0002	ND		0.00025	ND		0.0002	ND		0.00022
1,1,1,2-Tetrachloroethane	630-20-6	NA	ND		0.0006	ND		0.00039	ND		0.00034	ND		0.00043	ND		0.00035	ND		0.00038
Bromobenzene	108-86-1	NA	ND		0.00042	ND		0.00027	ND		0.00024	ND		0.0003	ND		0.00024	ND		0.00026
n-Butylbenzene	104-51-8	12	ND		0.00043	ND		0.00028	ND		0.00025	ND		0.00031	ND		0.00025	ND		0.00028
sec-Butylbenzene	135-98-8	11	ND		0.00041	ND		0.00027	ND		0.00023	ND		0.0003	ND		0.00024	ND		0.00026
tert-Butylbenzene	98-06-6	5.9	ND		0.00047	ND		0.0003	ND		0.00027	ND		0.00034	ND		0.00027	ND		0.0003
o-Chlorotoluene	95-49-8	NA	ND		0.00042	ND		0.00027	ND		0.00024	ND		0.0003	ND		0.00024	ND		0.00027
p-Chlorotoluene	106-43-4	NA	ND		0.00035	ND		0.00023	ND		0.0002	ND		0.00025	ND		0.0002	ND		0.00022
1,2-Dibromo-3-chloropropane	96-12-8	NA	ND		0.00075	ND		0.00049	ND		0.00043	ND		0.00054	ND		0.00043	ND		0.00048
Hexachlorobutadiene	87-68-3	NA	ND		0.00066	ND		0.00043	ND		0.00038	ND		0.00048	ND		0.00038	ND		0.00042
Isopropylbenzene	98-82-8	NA	ND		0.00037	ND		0.00024	ND		0.00021	ND		0.00026	ND		0.00021	ND		0.00023
p-Isopropyltoluene	99-87-6	NA	ND		0.00038	ND		0.00025	ND		0.00022	ND		0.00028	ND		0.00022	ND		0.00024
Naphthalene	91-20-3	12	ND		0.00026	ND		0.00017	ND		0.00015	ND		0.00019	ND		0.00015	ND		0.00017
Acrylonitrile	107-13-1	NA	ND		0.00098	ND		0.00064	ND		0.00056	ND		0.0007	ND		0.00056	ND		0.00062
n-Propylbenzene	103-65-1	3.9	ND		0.00041	ND		0.00026	ND		0.00023	ND		0.00029	ND		0.00023	ND		0.00026
1,2,3-Trichlorobenzene	87-61-6	NA	ND		0.00048	ND		0.00031	ND		0.00027	ND		0.00034	ND		0.00027	ND		0.0003
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.00041	ND		0.00026	ND		0.00023	ND		0.00029	ND		0.00023	ND		0.00026
1,3,5-Trimethylbenzene	108-67-8	8.4	ND		0.00031	ND		0.0002	ND		0.00017	ND		0.00022	ND		0.00018	ND		0.00019
1,2,4-Trimethylbenzene	95-63-6	3.6	ND		0.00035	ND		0.00023	ND		0.0002	ND		0.00025	ND		0.0002	ND		0.00022
1,4-Dioxane	123-91-1	0.1	ND		0.027	ND		0.018	ND		0.016	ND		0.02	ND		0.016	ND		0.017
p-Diethylbenzene	105-05-5	NA	ND		0.0076	ND		0.0049	ND		0.0043	ND		0.0055	ND		0.0044	ND		0.0048
p-Ethyltoluene	622-96-8	NA	ND		0.00044	ND		0.00029	ND		0.00025	ND		0.00032	ND		0.00026	ND		0.00028
1,2,4,5-Tetramethylbenzene	95-93-2	NA	ND		0.0003	ND		0.00019	ND		0.00017	ND		0.00021	ND		0.00017	ND		0.00019
Ethyl ether	60-29-7	NA	ND		0.0005	ND		0.00032	ND		0.00028	ND		0.00036	ND		0.00028	ND		0.00031
trans-1,4-Dichloro-2-butene	110-57-6	NA	ND		0.00075	ND		0.00048	ND		0.00042	ND		0.00054	ND		0.00043	ND		0.00047
Total VOCs			0.01388	-	-	-	-	-	0.025	-	-	0.076	-	-	-	-	-	0.032	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-15A_GRAB-2			TP-15B_GRAB-1			TP-15B_GRAB-2			TP-16_GRAB-1			TP-16_GRAB-2			TP-17A_GRAB-1		
		DEPTH INTERVAL																		
		LAB ID:	L1815750-14			L1815750-16			L1815750-17			L1815750-19			L1815750-20			L1815750-22		
		COLLECTION DATE:	5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
VOLATILE ORGANICS BY 8260/5035																				
Methylene chloride	75-09-2	0.05	ND		0.0018	ND		0.002	ND		0.0016	ND		0.0017	ND		0.0022	ND		0.0017
1,1-Dichloroethane	75-34-3	0.27	ND		0.0003	ND		0.00033	ND		0.00026	ND		0.00028	ND		0.00036	ND		0.00027
Chloroform	67-66-3	0.37	ND		0.00041	ND		0.00045	ND		0.00036	ND		0.00038	ND		0.0005	ND		0.00037
Carbon tetrachloride	56-23-5	0.76	ND		0.00038	ND		0.00042	ND		0.00034	ND		0.00036	ND		0.00046	ND		0.00035
1,2-Dichloropropane	78-87-5	NA	ND		0.00025	ND		0.00028	ND		0.00022	ND		0.00024	ND		0.00031	ND		0.00023
Dibromochloromethane	124-48-1	NA	ND		0.00019	ND		0.00022	ND		0.00017	ND		0.00018	ND		0.00024	ND		0.00018
1,1,2-Trichloroethane	79-00-5	NA	ND		0.00034	ND		0.00038	ND		0.00031	ND		0.00032	ND		0.00042	ND		0.00032
Tetrachloroethene	127-18-4	1.3	0.00059	J	0.00033	ND		0.00037	ND		0.0003	ND		0.00031	ND		0.0004	ND		0.0003
Chlorobenzene	108-90-7	1.1	ND		0.00038	ND		0.00042	ND		0.00034	ND		0.00036	ND		0.00047	ND		0.00035
Trichlorofluoromethane	75-69-4	NA	ND		0.00046	ND		0.00051	ND		0.00041	ND		0.00043	ND		0.00056	ND		0.00042
1,2-Dichloroethane	107-06-2	0.02	ND		0.00027	ND		0.0003	ND		0.00024	ND		0.00026	ND		0.00033	ND		0.00025
1,1,1-Trichloroethane	71-55-6	0.68	ND		0.00038	ND		0.00043	ND		0.00034	ND		0.00036	ND		0.00047	ND		0.00035
Bromodichloromethane	75-27-4	NA	ND		0.00034	ND		0.00038	ND		0.0003	ND		0.00032	ND		0.00041	ND		0.00031
trans-1,3-Dichloropropene	10061-02-6	NA	ND		0.00023	ND		0.00025	ND		0.0002	ND		0.00022	ND		0.00028	ND		0.00021
cis-1,3-Dichloropropene	10061-01-5	NA	ND		0.00025	ND		0.00028	ND		0.00023	ND		0.00024	ND		0.00031	ND		0.00023
1,3-Dichloropropene, Total	542-75-6	NA	ND		0.00023	ND		0.00025	ND		0.0002	ND		0.00022	ND		0.00028	ND		0.00021
1,1-Dichloropropene	563-58-6	NA	ND		0.00036	ND		0.0004	ND		0.00032	ND		0.00034	ND		0.00044	ND		0.00033
Bromoform	75-25-2	NA	ND		0.00026	ND		0.00029	ND		0.00023	ND		0.00024	ND		0.00032	ND		0.00024
1,1,2,2-Tetrachloroethane	79-34-5	NA	ND		0.00033	ND		0.00036	ND		0.00029	ND		0.00031	ND		0.0004	ND		0.0003
Benzene	71-43-2	0.06	ND		0.00021	ND		0.00024	ND		0.00019	ND		0.0002	ND		0.00026	ND		0.00019
Toluene	108-88-3	0.7	ND		0.00021	0.00025	J	0.00024	ND		0.00019	ND		0.0002	ND		0.00026	ND		0.0002
Ethylbenzene	100-41-4	1	ND		0.00019	ND		0.00021	ND		0.00017	ND		0.00018	ND		0.00023	ND		0.00017
Chloromethane	74-87-3	NA	ND		0.00048	ND		0.00053	ND		0.00043	ND		0.00045	ND		0.00058	ND		0.00044
Bromomethane	74-83-9	NA	ND		0.00037	ND		0.00041	ND		0.00033	ND		0.00035	ND		0.00045	ND		0.00034
Vinyl chloride	75-01-4	0.02	ND		0.00035	ND		0.00038	ND		0.00031	ND		0.00033	ND		0.00042	ND		0.00032
Chloroethane	75-00-3	NA	ND		0.00035	ND		0.00039	ND		0.00031	ND		0.00033	ND		0.00042	ND		0.00032
1,1-Dichloroethene	75-35-4	0.33	ND		0.00041	ND		0.00046	ND		0.00036	ND		0.00038	ND		0.0005	ND		0.00037
trans-1,2-Dichloroethene	156-60-5	0.19	ND		0.00026	ND		0.00029	ND		0.00024	ND		0.00025	ND		0.00032	ND		0.00024
Trichloroethene	79-01-6	0.47	0.017		0.00033	0.0061		0.00037	ND		0.0003	ND		0.00031	ND		0.0004	ND		0.0003
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.0002	ND		0.00022	ND		0.00018	ND		0.00019	ND		0.00024	ND		0.00018
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.00024	ND		0.00027	ND		0.00021	ND		0.00023	ND		0.00029	ND		0.00022
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.0002	ND		0.00022	ND		0.00018	ND		0.00019	ND		0.00024	ND		0.00018
Methyl tert butyl ether	1634-04-4	0.93	ND		0.00017	ND		0.00019	ND		0.00015	ND		0.00016	ND		0.0002	ND		0.00015
p/m-Xylene	179601-23-1	NA	ND		0.00039	ND		0.00043	ND		0.00034	ND		0.00036	ND		0.00047	ND		0.00035
o-Xylene	95-47-6	NA	ND		0.00037	ND		0.00041	ND		0.00033	ND		0.00035	ND		0.00045	ND		0.00034
Xylenes, Total	1330-20-7	1.6	ND		0.00037	ND		0.00041	ND		0.00033	ND		0.00035	ND		0.00045	ND		0.00034
cis-1,2-Dichloroethene	156-59-2	0.25	ND		0.00038	ND		0.00042	ND		0.00034	ND		0.00035	ND		0.00046	ND		0.00034
1,2-Dichloroethene, Total	540-59-0	NA	ND		0.00026	ND		0.00029	ND		0.00024	ND		0.00025	ND		0.00032	ND		0.00024
Dibromomethane	74-95-3	NA	ND		0.00026	ND		0.00029	ND		0.00023	ND		0.00025	ND		0.00032	ND		0.00024
Styrene	100-42-5	NA	ND		0.00044	ND		0.00049	ND		0.00039	ND		0.00042	ND		0.00054	ND		0.0004
Dichlorodifluoromethane	75-71-8	NA	ND		0.00055	ND		0.00061	ND		0.00049	ND		0.00052	ND		0.00067	ND		0.0005
Acetone	67-64-1	0.05	ND		0.0025	0.013		0.0028	0.0051	J	0.0022	ND		0.0024	0.0052	J	0.0031	0.041		0.0023
Carbon disulfide	75-15-0	NA	ND		0.0012	ND		0.0013	ND		0.0011	ND		0.0011	ND		0.0015	ND		0.0011
2-Butanone	78-93-3	0.12	ND		0.00076	ND		0.00084	ND		0.00068	ND		0.00072	ND		0.00093	0.0062	J	0.00069
Vinyl acetate	108-05-4	NA	ND		0.00017	ND		0.00019	ND		0.00015	ND		0.00016	ND		0.0002	ND		0.00015
4-Methyl-2-pentanone	108-10-1	NA	ND		0.00027	ND		0.0003	ND		0.00024	ND		0.00025	ND		0.00033	ND		0.00024

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-15A_GRAB-2			TP-15B_GRAB-1			TP-15B_GRAB-2			TP-16_GRAB-1			TP-16_GRAB-2			TP-17A_GRAB-1		
		DEPTH INTERVAL																		
		LAB ID:	L1815750-14			L1815750-16			L1815750-17			L1815750-19			L1815750-20			L1815750-22		
		COLLECTION DATE:	5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
VOLATILE ORGANICS BY 8260/5035																				
1,2,3-Trichloropropane	96-18-4	NA	ND		0.00019	ND		0.00022	ND		0.00017	ND		0.00018	ND		0.00024	ND		0.00018
2-Hexanone	591-78-6	NA	ND		0.00073	ND		0.00081	ND		0.00065	ND		0.00069	ND		0.00089	ND		0.00067
Bromochloromethane	74-97-5	NA	ND		0.00039	ND		0.00044	ND		0.00035	ND		0.00037	ND		0.00048	ND		0.00036
2,2-Dichloropropane	594-20-7	NA	ND		0.0005	ND		0.00055	ND		0.00044	ND		0.00047	ND		0.0006	ND		0.00045
1,2-Dibromoethane	106-93-4	NA	ND		0.00022	ND		0.00024	ND		0.0002	ND		0.00021	ND		0.00027	ND		0.0002
1,3-Dichloropropane	142-28-9	NA	ND		0.0002	ND		0.00022	ND		0.00018	ND		0.00019	ND		0.00024	ND		0.00018
1,1,1,2-Tetrachloroethane	630-20-6	NA	ND		0.00035	ND		0.00039	ND		0.00031	ND		0.00033	ND		0.00043	ND		0.00032
Bromobenzene	108-86-1	NA	ND		0.00024	ND		0.00027	ND		0.00022	ND		0.00023	ND		0.00029	ND		0.00022
n-Butylbenzene	104-51-8	12	ND		0.00025	ND		0.00028	ND		0.00022	ND		0.00024	ND		0.00031	ND		0.00023
sec-Butylbenzene	135-98-8	11	ND		0.00024	ND		0.00026	ND		0.00021	ND		0.00022	ND		0.00029	ND		0.00022
tert-Butylbenzene	98-06-6	5.9	ND		0.00027	ND		0.0003	ND		0.00024	ND		0.00026	ND		0.00033	ND		0.00025
o-Chlorotoluene	95-49-8	NA	ND		0.00024	ND		0.00027	ND		0.00022	ND		0.00023	ND		0.0003	ND		0.00022
p-Chlorotoluene	106-43-4	NA	ND		0.0002	ND		0.00022	ND		0.00018	ND		0.00019	ND		0.00024	ND		0.00018
1,2-Dibromo-3-chloropropane	96-12-8	NA	ND		0.00044	ND		0.00048	ND		0.00039	ND		0.00041	ND		0.00053	ND		0.0004
Hexachlorobutadiene	87-68-3	NA	ND		0.00038	ND		0.00042	ND		0.00034	ND		0.00036	ND		0.00047	ND		0.00035
Isopropylbenzene	98-82-8	NA	ND		0.00021	ND		0.00024	ND		0.00019	ND		0.0002	ND		0.00026	ND		0.0002
p-Isopropyltoluene	99-87-6	NA	ND		0.00022	ND		0.00025	ND		0.0002	ND		0.00021	ND		0.00027	ND		0.0002
Naphthalene	91-20-3	12	ND		0.00015	ND		0.00017	ND		0.00014	ND		0.00014	ND		0.00018	0.0012	J	0.00014
Acrylonitrile	107-13-1	NA	ND		0.00057	ND		0.00063	ND		0.0005	ND		0.00053	ND		0.00069	ND		0.00052
n-Propylbenzene	103-65-1	3.9	ND		0.00024	ND		0.00026	ND		0.00021	ND		0.00022	ND		0.00029	ND		0.00022
1,2,3-Trichlorobenzene	87-61-6	NA	ND		0.00028	ND		0.00031	ND		0.00025	ND		0.00026	ND		0.00034	ND		0.00025
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.00024	ND		0.00026	ND		0.00021	ND		0.00022	ND		0.00029	ND		0.00022
1,3,5-Trimethylbenzene	108-67-8	8.4	ND		0.00018	ND		0.0002	ND		0.00016	ND		0.00017	ND		0.00022	ND		0.00016
1,2,4-Trimethylbenzene	95-63-6	3.6	ND		0.0002	ND		0.00023	ND		0.00018	ND		0.00019	ND		0.00025	ND		0.00019
1,4-Dioxane	123-91-1	0.1	ND		0.016	ND		0.018	ND		0.014	ND		0.015	ND		0.019	ND		0.014
p-Diethylbenzene	105-05-5	NA	ND		0.0044	ND		0.0049	ND		0.0039	ND		0.0041	ND		0.0054	ND		0.004
p-Ethyltoluene	622-96-8	NA	ND		0.00026	ND		0.00029	ND		0.00023	ND		0.00024	ND		0.00031	ND		0.00024
1,2,4,5-Tetramethylbenzene	95-93-2	NA	ND		0.00017	ND		0.00019	ND		0.00015	ND		0.00016	ND		0.00021	ND		0.00016
Ethyl ether	60-29-7	NA	ND		0.00029	ND		0.00032	ND		0.00026	ND		0.00027	ND		0.00035	ND		0.00026
trans-1,4-Dichloro-2-butene	110-57-6	NA	ND		0.00043	ND		0.00048	ND		0.00038	ND		0.00041	ND		0.00053	ND		0.00039
Total VOCs			0.02708	-	-	-	-	-	0.06057	-	-	0.04823	-	-	-	-	-	0.02994	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-17A_GRAB-2			TP-17B_GRAB-1			TP-17B_GRAB-2			TP-18A_GRAB-1			TP-18A_GRAB-2			TP-18B_GRAB-1		
		DEPTH INTERVAL																		
		LAB ID:	L1815750-23			L1815750-25			L1815750-26			L1815750-28			L1815750-29			L1815750-31		
		COLLECTION DATE:	5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
VOLATILE ORGANICS BY 8260/5035																				
Methylene chloride	75-09-2	0.05	ND		0.0017	ND		0.002	ND		0.0015	ND		0.0018	ND		0.0016	ND		0.0013
1,1-Dichloroethane	75-34-3	0.27	ND		0.00029	ND		0.00033	ND		0.00025	ND		0.0003	ND		0.00027	ND		0.00022
Chloroform	67-66-3	0.37	ND		0.00039	ND		0.00045	ND		0.00035	ND		0.00041	ND		0.00036	ND		0.0003
Carbon tetrachloride	56-23-5	0.76	ND		0.00036	ND		0.00042	ND		0.00032	ND		0.00038	ND		0.00034	ND		0.00028
1,2-Dichloropropane	78-87-5	NA	ND		0.00024	ND		0.00028	ND		0.00021	ND		0.00025	ND		0.00022	ND		0.00018
Dibromochloromethane	124-48-1	NA	ND		0.00019	ND		0.00022	ND		0.00016	ND		0.0002	ND		0.00017	ND		0.00014
1,1,2-Trichloroethane	79-00-5	NA	ND		0.00033	ND		0.00038	ND		0.00029	ND		0.00035	ND		0.00031	ND		0.00025
Tetrachloroethene	127-18-4	1.3	ND		0.00032	ND		0.00037	ND		0.00028	ND		0.00034	ND		0.0003	ND		0.00024
Chlorobenzene	108-90-7	1.1	ND		0.00037	ND		0.00043	ND		0.00032	ND		0.00039	ND		0.00034	ND		0.00028
Trichlorofluoromethane	75-69-4	NA	ND		0.00044	ND		0.00051	ND		0.00039	ND		0.00047	ND		0.00041	ND		0.00034
1,2-Dichloroethane	107-06-2	0.02	ND		0.00026	ND		0.0003	ND		0.00023	ND		0.00027	ND		0.00024	ND		0.0002
1,1,1-Trichloroethane	71-55-6	0.68	ND		0.00037	ND		0.00043	ND		0.00033	ND		0.00039	ND		0.00034	ND		0.00028
Bromodichloromethane	75-27-4	NA	ND		0.00033	ND		0.00038	ND		0.00029	ND		0.00034	ND		0.0003	ND		0.00025
trans-1,3-Dichloropropene	10061-02-6	NA	ND		0.00022	ND		0.00026	ND		0.00019	ND		0.00023	ND		0.0002	ND		0.00017
cis-1,3-Dichloropropene	10061-01-5	NA	ND		0.00024	ND		0.00028	ND		0.00022	ND		0.00026	ND		0.00023	ND		0.00019
1,3-Dichloropropene, Total	542-75-6	NA	ND		0.00022	ND		0.00026	ND		0.00019	ND		0.00023	ND		0.0002	ND		0.00017
1,1-Dichloropropene	563-58-6	NA	ND		0.00035	ND		0.0004	ND		0.00031	ND		0.00037	ND		0.00032	ND		0.00026
Bromoform	75-25-2	NA	ND		0.00025	ND		0.00029	ND		0.00022	ND		0.00026	ND		0.00023	ND		0.00019
1,1,2,2-Tetrachloroethane	79-34-5	NA	ND		0.00032	ND		0.00036	ND		0.00028	ND		0.00033	ND		0.00029	ND		0.00024
Benzene	71-43-2	0.06	ND		0.0002	ND		0.00024	ND		0.00018	ND		0.00022	ND		0.00019	ND		0.00016
Toluene	108-88-3	0.7	ND		0.00021	0.00035	J	0.00024	ND		0.00018	ND		0.00022	ND		0.00019	ND		0.00016
Ethylbenzene	100-41-4	1	ND		0.00018	0.00023	J	0.00021	ND		0.00016	ND		0.00019	ND		0.00017	ND		0.00014
Chloromethane	74-87-3	NA	ND		0.00046	ND		0.00053	ND		0.00041	ND		0.00049	ND		0.00043	ND		0.00035
Bromomethane	74-83-9	NA	ND		0.00036	ND		0.00041	ND		0.00032	ND		0.00038	ND		0.00033	ND		0.00027
Vinyl chloride	75-01-4	0.02	ND		0.00033	ND		0.00039	ND		0.00029	ND		0.00035	ND		0.00031	ND		0.00025
Chloroethane	75-00-3	NA	ND		0.00034	ND		0.00039	ND		0.0003	ND		0.00035	ND		0.00031	ND		0.00025
1,1-Dichloroethene	75-35-4	0.33	ND		0.00039	ND		0.00046	ND		0.00035	ND		0.00042	ND		0.00037	ND		0.0003
trans-1,2-Dichloroethene	156-60-5	0.19	ND		0.00026	ND		0.0003	ND		0.00022	ND		0.00027	ND		0.00024	ND		0.00019
Trichloroethene	79-01-6	0.47	0.00034	J	0.00032	ND		0.00037	ND		0.00028	ND		0.00034	ND		0.0003	ND		0.00024
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.00019	ND		0.00022	ND		0.00017	ND		0.0002	ND		0.00018	ND		0.00015
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.00023	ND		0.00027	ND		0.0002	ND		0.00024	ND		0.00022	ND		0.00018
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.00019	ND		0.00022	ND		0.00017	ND		0.0002	ND		0.00018	ND		0.00015
Methyl tert butyl ether	1634-04-4	0.93	ND		0.00016	ND		0.00019	ND		0.00014	ND		0.00017	ND		0.00015	ND		0.00012
p/m-Xylene	179601-23-1	NA	ND		0.00037	0.00073	J	0.00043	ND		0.00033	ND		0.00039	ND		0.00035	ND		0.00028
o-Xylene	95-47-6	NA	ND		0.00036	ND		0.00041	ND		0.00032	ND		0.00038	ND		0.00033	ND		0.00027
Xylenes, Total	1330-20-7	1.6	ND		0.00036	0.00073	J	0.00041	ND		0.00032	ND		0.00038	ND		0.00033	ND		0.00027
cis-1,2-Dichloroethene	156-59-2	0.25	ND		0.00036	ND		0.00042	ND		0.00032	ND		0.00038	ND		0.00034	ND		0.00028
1,2-Dichloroethene, Total	540-59-0	NA	ND		0.00026	ND		0.0003	ND		0.00022	ND		0.00027	ND		0.00024	ND		0.00019
Dibromomethane	74-95-3	NA	ND		0.00025	ND		0.00029	ND		0.00022	ND		0.00027	ND		0.00024	ND		0.00019
Styrene	100-42-5	NA	ND		0.00042	ND		0.00049	ND		0.00038	ND		0.00045	ND		0.0004	ND		0.00032
Dichlorodifluoromethane	75-71-8	NA	ND		0.00053	ND		0.00061	ND		0.00047	ND		0.00056	ND		0.00049	ND		0.0004
Acetone	67-64-1	0.05	0.0063	J	0.0024	0.024		0.0028	0.056		0.0021	0.0042	J	0.0026	0.0033	J	0.0023	0.0055	J	0.0018
Carbon disulfide	75-15-0	NA	ND		0.0012	ND		0.0013	ND		0.001	ND		0.0012	ND		0.0011	ND		0.00089
2-Butanone	78-93-3	0.12	ND		0.00073	ND		0.00085	0.0053	J	0.00065	ND		0.00077	ND		0.00068	ND		0.00056
Vinyl acetate	108-05-4	NA	ND		0.00016	ND		0.00019	ND		0.00014	ND		0.00017	ND		0.00015	ND		0.00012
4-Methyl-2-pentanone	108-10-1	NA	ND		0.00026	ND		0.0003	ND		0.00023	ND		0.00027	ND		0.00024	ND		0.0002

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-17A_GRAB-2			TP-17B_GRAB-1			TP-17B_GRAB-2			TP-18A_GRAB-1			TP-18A_GRAB-2			TP-18B_GRAB-1		
		DEPTH INTERVAL																		
		LAB ID:	L1815750-23			L1815750-25			L1815750-26			L1815750-28			L1815750-29			L1815750-31		
		COLLECTION DATE:	5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
VOLATILE ORGANICS BY 8260/5035																				
1,2,3-Trichloropropane	96-18-4	NA	ND		0.00019	ND		0.00022	ND		0.00016	ND		0.0002	ND		0.00017	ND		0.00014
2-Hexanone	591-78-6	NA	ND		0.00071	ND		0.00082	ND		0.00062	ND		0.00074	ND		0.00066	ND		0.00054
Bromochloromethane	74-97-5	NA	ND		0.00038	ND		0.00044	ND		0.00033	ND		0.0004	ND		0.00035	ND		0.00029
2,2-Dichloropropane	594-20-7	NA	ND		0.00048	ND		0.00055	ND		0.00042	ND		0.0005	ND		0.00044	ND		0.00036
1,2-Dibromoethane	106-93-4	NA	ND		0.00021	ND		0.00024	ND		0.00019	ND		0.00022	ND		0.0002	ND		0.00016
1,3-Dichloropropane	142-28-9	NA	ND		0.00019	ND		0.00022	ND		0.00017	ND		0.0002	ND		0.00018	ND		0.00015
1,1,1,2-Tetrachloroethane	630-20-6	NA	ND		0.00034	ND		0.00039	ND		0.0003	ND		0.00036	ND		0.00031	ND		0.00026
Bromobenzene	108-86-1	NA	ND		0.00023	ND		0.00027	ND		0.0002	ND		0.00024	ND		0.00022	ND		0.00018
n-Butylbenzene	104-51-8	12	ND		0.00024	ND		0.00028	ND		0.00021	ND		0.00025	ND		0.00022	ND		0.00018
sec-Butylbenzene	135-98-8	11	ND		0.00023	ND		0.00027	ND		0.0002	ND		0.00024	ND		0.00021	ND		0.00017
tert-Butylbenzene	98-06-6	5.9	ND		0.00026	ND		0.0003	ND		0.00023	ND		0.00028	ND		0.00024	ND		0.0002
o-Chlorotoluene	95-49-8	NA	ND		0.00023	ND		0.00027	ND		0.00021	ND		0.00025	ND		0.00022	ND		0.00018
p-Chlorotoluene	106-43-4	NA	ND		0.00019	ND		0.00022	ND		0.00017	ND		0.0002	ND		0.00018	ND		0.00015
1,2-Dibromo-3-chloropropane	96-12-8	NA	ND		0.00042	ND		0.00048	ND		0.00037	ND		0.00044	ND		0.00039	ND		0.00032
Hexachlorobutadiene	87-68-3	NA	ND		0.00037	ND		0.00043	ND		0.00032	ND		0.00039	ND		0.00034	ND		0.00028
Isopropylbenzene	98-82-8	NA	ND		0.0002	ND		0.00024	ND		0.00018	ND		0.00022	ND		0.00019	ND		0.00016
p-Isopropyltoluene	99-87-6	NA	ND		0.00021	0.00051	J	0.00025	ND		0.00019	ND		0.00022	ND		0.0002	ND		0.00016
Naphthalene	91-20-3	12	0.0098		0.00015	0.17		0.00017	0.036		0.00013	0.00089	J	0.00015	0.00044	J	0.00014	0.00081	J	0.00011
Acrylonitrile	107-13-1	NA	ND		0.00054	ND		0.00063	ND		0.00048	ND		0.00057	ND		0.00051	ND		0.00041
n-Propylbenzene	103-65-1	3.9	ND		0.00023	ND		0.00026	ND		0.0002	ND		0.00024	ND		0.00021	ND		0.00017
1,2,3-Trichlorobenzene	87-61-6	NA	ND		0.00027	ND		0.00031	ND		0.00024	ND		0.00028	ND		0.00025	ND		0.0002
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.00023	ND		0.00026	ND		0.0002	ND		0.00024	ND		0.00021	ND		0.00017
1,3,5-Trimethylbenzene	108-67-8	8.4	ND		0.00017	0.00061	J	0.0002	0.0002	J	0.00015	ND		0.00018	ND		0.00016	ND		0.00013
1,2,4-Trimethylbenzene	95-63-6	3.6	ND		0.0002	0.0015	J	0.00023	0.0005	J	0.00017	ND		0.00021	ND		0.00018	ND		0.00015
1,4-Dioxane	123-91-1	0.1	ND		0.015	ND		0.018	ND		0.013	ND		0.016	ND		0.014	ND		0.012
p-Diethylbenzene	105-05-5	NA	ND		0.0042	ND		0.0049	ND		0.0037	ND		0.0045	ND		0.004	ND		0.0032
p-Ethyltoluene	622-96-8	NA	ND		0.00025	0.00074	J	0.00029	0.00031	J	0.00022	ND		0.00026	ND		0.00023	ND		0.00019
1,2,4,5-Tetramethylbenzene	95-93-2	NA	ND		0.00016	0.0005	J	0.00019	0.00024	J	0.00015	ND		0.00017	ND		0.00015	ND		0.00012
Ethyl ether	60-29-7	NA	ND		0.00028	ND		0.00032	ND		0.00024	ND		0.00029	ND		0.00026	ND		0.00021
trans-1,4-Dichloro-2-butene	110-57-6	NA	ND		0.00042	ND		0.00048	ND		0.00037	ND		0.00044	ND		0.00039	ND		0.00032
Total VOCs			0.01759	-	-	-	-	-	0.09855	-	-	0.00509	-	-	0.00374	-	-	0.00631	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

	SAMPLE ID:	TP-18B_GRAB-2			TP-19A_GRAB-1			TP-19A_GRAB-2			TP-19B_GRAB-1			TP-19B_GRAB-2			TP-21_GRAB-1		
	DEPTH INTERVAL																		
	LAB ID:	L1815750-32			L1815750-34			L1815750-35			L1815750-37			L1815750-38			L1815750-40		
	COLLECTION DATE:	5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018		
	SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
VOLATILE ORGANICS BY 8260/5035																				
Methylene chloride	75-09-2	0.05	ND		0.0021	ND		0.0013	ND		0.0018	ND		0.0019	ND		0.0014	ND		0.0015
1,1-Dichloroethane	75-34-3	0.27	ND		0.00034	ND		0.00022	ND		0.0003	ND		0.00031	ND		0.00023	ND		0.00025
Chloroform	67-66-3	0.37	ND		0.00047	ND		0.0003	ND		0.00041	ND		0.00042	ND		0.00031	ND		0.00034
Carbon tetrachloride	56-23-5	0.76	ND		0.00044	ND		0.00028	ND		0.00038	ND		0.00039	ND		0.00029	ND		0.00032
1,2-Dichloropropane	78-87-5	NA	ND		0.00029	ND		0.00018	ND		0.00025	ND		0.00026	ND		0.00019	ND		0.00021
Dibromochloromethane	124-48-1	NA	ND		0.00022	ND		0.00014	ND		0.00019	ND		0.0002	ND		0.00015	ND		0.00016
1,1,2-Trichloroethane	79-00-5	NA	ND		0.00039	ND		0.00025	ND		0.00035	ND		0.00036	ND		0.00026	ND		0.00029
Tetrachloroethene	127-18-4	1.3	ND		0.00038	ND		0.00024	ND		0.00033	ND		0.00034	ND		0.00026	ND		0.00028
Chlorobenzene	108-90-7	1.1	ND		0.00044	ND		0.00028	ND		0.00038	ND		0.00039	ND		0.00029	ND		0.00032
Trichlorofluoromethane	75-69-4	NA	ND		0.00052	ND		0.00034	ND		0.00046	ND		0.00047	ND		0.00035	ND		0.00039
1,2-Dichloroethane	107-06-2	0.02	ND		0.00031	ND		0.0002	ND		0.00027	ND		0.00028	ND		0.00021	ND		0.00023
1,1,1-Trichloroethane	71-55-6	0.68	ND		0.00044	ND		0.00028	ND		0.00039	ND		0.0004	ND		0.0003	ND		0.00032
Bromodichloromethane	75-27-4	NA	ND		0.00039	ND		0.00025	ND		0.00034	ND		0.00035	ND		0.00026	ND		0.00028
trans-1,3-Dichloropropene	10061-02-6	NA	ND		0.00026	ND		0.00017	ND		0.00023	ND		0.00024	ND		0.00018	ND		0.00019
cis-1,3-Dichloropropene	10061-01-5	NA	ND		0.00029	ND		0.00019	ND		0.00026	ND		0.00026	ND		0.0002	ND		0.00021
1,3-Dichloropropene, Total	542-75-6	NA	ND		0.00026	ND		0.00017	ND		0.00023	ND		0.00024	ND		0.00018	ND		0.00019
1,1-Dichloropropene	563-58-6	NA	ND		0.00041	ND		0.00027	ND		0.00036	ND		0.00037	ND		0.00028	ND		0.0003
Bromoform	75-25-2	NA	ND		0.0003	ND		0.00019	ND		0.00026	ND		0.00027	ND		0.0002	ND		0.00022
1,1,2,2-Tetrachloroethane	79-34-5	NA	ND		0.00038	ND		0.00024	ND		0.00033	ND		0.00034	ND		0.00025	ND		0.00028
Benzene	71-43-2	0.06	ND		0.00024	ND		0.00016	ND		0.00021	ND		0.00022	ND		0.00016	ND		0.00018
Toluene	108-88-3	0.7	ND		0.00024	ND		0.00016	ND		0.00022	ND		0.00022	ND		0.00016	ND		0.00018
Ethylbenzene	100-41-4	1	ND		0.00021	ND		0.00014	ND		0.00019	ND		0.00019	ND		0.00014	ND		0.00016
Chloromethane	74-87-3	NA	ND		0.00055	ND		0.00035	ND		0.00048	ND		0.00049	ND		0.00037	ND		0.0004
Bromomethane	74-83-9	NA	ND		0.00043	ND		0.00027	ND		0.00037	ND		0.00038	ND		0.00028	ND		0.00031
Vinyl chloride	75-01-4	0.02	ND		0.0004	ND		0.00026	ND		0.00035	ND		0.00036	ND		0.00027	ND		0.00029
Chloroethane	75-00-3	NA	ND		0.0004	ND		0.00026	ND		0.00035	ND		0.00036	ND		0.00027	ND		0.00029
1,1-Dichloroethene	75-35-4	0.33	ND		0.00047	ND		0.0003	ND		0.00041	ND		0.00042	ND		0.00031	ND		0.00034
trans-1,2-Dichloroethene	156-60-5	0.19	ND		0.0003	ND		0.0002	ND		0.00027	ND		0.00027	ND		0.0002	ND		0.00022
Trichloroethene	79-01-6	0.47	ND		0.00038	ND		0.00024	ND		0.00033	ND		0.00034	ND		0.00026	ND		0.00028
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.00023	ND		0.00015	ND		0.0002	ND		0.00021	ND		0.00015	ND		0.00017
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.00027	ND		0.00018	ND		0.00024	ND		0.00025	ND		0.00018	ND		0.0002
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.00023	ND		0.00015	ND		0.0002	ND		0.00021	ND		0.00015	ND		0.00017
Methyl tert butyl ether	1634-04-4	0.93	ND		0.00019	ND		0.00012	ND		0.00017	ND		0.00017	ND		0.00013	ND		0.00014
p/m-Xylene	179601-23-1	NA	ND		0.00044	ND		0.00028	ND		0.00039	ND		0.0004	ND		0.0003	ND		0.00032
o-Xylene	95-47-6	NA	ND		0.00043	ND		0.00027	ND		0.00037	ND		0.00038	ND		0.00028	ND		0.00031
Xylenes, Total	1330-20-7	1.6	ND		0.00043	ND		0.00027	ND		0.00037	ND		0.00038	ND		0.00028	ND		0.00031
cis-1,2-Dichloroethene	156-59-2	0.25	ND		0.00043	ND		0.00028	ND		0.00038	ND		0.00039	ND		0.00029	ND		0.00032
1,2-Dichloroethene, Total	540-59-0	NA	ND		0.0003	ND		0.0002	ND		0.00027	ND		0.00027	ND		0.0002	ND		0.00022
Dibromomethane	74-95-3	NA	ND		0.0003	ND		0.00019	ND		0.00026	ND		0.00027	ND		0.0002	ND		0.00022
Styrene	100-42-5	NA	ND		0.0005	ND		0.00032	ND		0.00044	ND		0.00046	ND		0.00034	ND		0.00037
Dichlorodifluoromethane	75-71-8	NA	ND		0.00063	ND		0.0004	ND		0.00055	ND		0.00057	ND		0.00042	ND		0.00046
Acetone	67-64-1	0.05	0.004	J	0.0029	0.011		0.0018	0.016		0.0025	0.0064	J	0.0026	0.0054	J	0.0019	0.0068	J	0.0021
Carbon disulfide	75-15-0	NA	ND		0.0014	ND		0.00089	ND		0.0012	ND		0.0012	ND		0.00093	ND		0.001
2-Butanone	78-93-3	0.12	ND		0.00087	ND		0.00056	ND		0.00076	ND		0.00078	ND		0.00058	ND		0.00064
Vinyl acetate	108-05-4	NA	ND		0.00019	ND		0.00012	ND		0.00017	ND		0.00017	ND		0.00013	ND		0.00014
4-Methyl-2-pentanone	108-10-1	NA	ND		0.00031	ND		0.0002	ND		0.00027	ND		0.00028	ND		0.00021	ND		0.00022

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-18B_GRAB-2			TP-19A_GRAB-1			TP-19A_GRAB-2			TP-19B_GRAB-1			TP-19B_GRAB-2			TP-21_GRAB-1		
		DEPTH INTERVAL																		
		LAB ID:	L1815750-32			L1815750-34			L1815750-35			L1815750-37			L1815750-38			L1815750-40		
		COLLECTION DATE:	5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
VOLATILE ORGANICS BY 8260/5035																				
1,2,3-Trichloropropane	96-18-4	NA	ND		0.00022	ND		0.00014	ND		0.0002	ND		0.0002	ND		0.00015	ND		0.00016
2-Hexanone	591-78-6	NA	ND		0.00084	ND		0.00054	ND		0.00074	ND		0.00076	ND		0.00056	ND		0.00062
Bromochloromethane	74-97-5	NA	ND		0.00045	ND		0.00029	ND		0.0004	ND		0.0004	ND		0.0003	ND		0.00033
2,2-Dichloropropane	594-20-7	NA	ND		0.00057	ND		0.00036	ND		0.0005	ND		0.00051	ND		0.00038	ND		0.00042
1,2-Dibromoethane	106-93-4	NA	ND		0.00025	ND		0.00016	ND		0.00022	ND		0.00022	ND		0.00017	ND		0.00018
1,3-Dichloropropane	142-28-9	NA	ND		0.00023	ND		0.00015	ND		0.0002	ND		0.00021	ND		0.00015	ND		0.00017
1,1,1,2-Tetrachloroethane	630-20-6	NA	ND		0.0004	ND		0.00026	ND		0.00035	ND		0.00036	ND		0.00027	ND		0.00029
Bromobenzene	108-86-1	NA	ND		0.00028	ND		0.00018	ND		0.00024	ND		0.00025	ND		0.00018	ND		0.0002
n-Butylbenzene	104-51-8	12	ND		0.00029	ND		0.00018	ND		0.00025	ND		0.00026	ND		0.00019	ND		0.00021
sec-Butylbenzene	135-98-8	11	ND		0.00027	ND		0.00018	ND		0.00024	ND		0.00025	ND		0.00018	ND		0.0002
tert-Butylbenzene	98-06-6	5.9	ND		0.00031	ND		0.0002	ND		0.00027	ND		0.00028	ND		0.00021	ND		0.00023
o-Chlorotoluene	95-49-8	NA	ND		0.00028	ND		0.00018	ND		0.00024	ND		0.00025	ND		0.00019	ND		0.0002
p-Chlorotoluene	106-43-4	NA	ND		0.00023	ND		0.00015	ND		0.0002	ND		0.00021	ND		0.00015	ND		0.00017
1,2-Dibromo-3-chloropropane	96-12-8	NA	ND		0.0005	ND		0.00032	ND		0.00044	ND		0.00045	ND		0.00033	ND		0.00037
Hexachlorobutadiene	87-68-3	NA	ND		0.00044	ND		0.00028	ND		0.00038	ND		0.00039	ND		0.00029	ND		0.00032
Isopropylbenzene	98-82-8	NA	ND		0.00024	ND		0.00016	ND		0.00021	ND		0.00022	ND		0.00016	ND		0.00018
p-Isopropyltoluene	99-87-6	NA	ND		0.00025	ND		0.00016	ND		0.00022	ND		0.00023	ND		0.00017	ND		0.00019
Naphthalene	91-20-3	12	0.00055	J	0.00017	ND		0.00011	0.00044	J	0.00015	0.00029	J	0.00016	ND		0.00012	0.00013	J	0.00013
Acrylonitrile	107-13-1	NA	ND		0.00065	ND		0.00042	ND		0.00057	ND		0.00058	ND		0.00043	ND		0.00048
n-Propylbenzene	103-65-1	3.9	ND		0.00027	ND		0.00017	ND		0.00024	ND		0.00024	ND		0.00018	ND		0.0002
1,2,3-Trichlorobenzene	87-61-6	NA	ND		0.00032	ND		0.0002	ND		0.00028	ND		0.00028	ND		0.00021	ND		0.00023
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.00027	ND		0.00017	ND		0.00024	ND		0.00024	ND		0.00018	ND		0.0002
1,3,5-Trimethylbenzene	108-67-8	8.4	ND		0.0002	ND		0.00013	ND		0.00018	ND		0.00018	ND		0.00014	ND		0.00015
1,2,4-Trimethylbenzene	95-63-6	3.6	ND		0.00023	ND		0.00015	ND		0.0002	ND		0.00021	ND		0.00016	ND		0.00017
1,4-Dioxane	123-91-1	0.1	ND		0.018	ND		0.012	ND		0.016	ND		0.016	ND		0.012	ND		0.013
p-Diethylbenzene	105-05-5	NA	ND		0.005	ND		0.0032	ND		0.0044	ND		0.0045	ND		0.0034	ND		0.0037
p-Ethyltoluene	622-96-8	NA	ND		0.0003	ND		0.00019	ND		0.00026	ND		0.00026	ND		0.0002	ND		0.00022
1,2,4,5-Tetramethylbenzene	95-93-2	NA	ND		0.0002	ND		0.00013	ND		0.00017	ND		0.00018	ND		0.00013	ND		0.00014
Ethyl ether	60-29-7	NA	ND		0.00033	ND		0.00021	ND		0.00029	ND		0.0003	ND		0.00022	ND		0.00024
trans-1,4-Dichloro-2-butene	110-57-6	NA	ND		0.00049	ND		0.00032	ND		0.00043	ND		0.00044	ND		0.00033	ND		0.00036
Total VOCs			0.00455	-	-	0.011	-	-	0.01644	-	-	0.00669	-	-	0.0054	-	-	0.00693	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-21_GRAB-2			TP-X_050218-G			TP-23_GRAB-1			TP-23_GRAB-2			TP-24_GRAB-1			TP-24_GRAB-2		
		DEPTH INTERVAL																		
		LAB ID:	L1815750-41			L1815750-43			L1815928-01			L1815928-02			L1815928-04			L1815928-05		
		COLLECTION DATE:	5/2/2018			5/2/2018			5/3/2018			5/3/2018			5/3/2018			5/3/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
VOLATILE ORGANICS BY 8260/5035																				
Methylene chloride	75-09-2	0.05	ND		0.0017	ND		0.002	ND		0.0015	ND		0.0017	ND		0.0016	ND		0.0017
1,1-Dichloroethane	75-34-3	0.27	ND		0.00028	ND		0.00034	ND		0.00024	ND		0.00027	ND		0.00026	ND		0.00029
Chloroform	67-66-3	0.37	ND		0.00039	ND		0.00046	ND		0.00034	ND		0.00038	ND		0.00036	ND		0.00039
Carbon tetrachloride	56-23-5	0.76	ND		0.00036	ND		0.00043	ND		0.00031	ND		0.00035	ND		0.00034	ND		0.00036
1,2-Dichloropropane	78-87-5	NA	ND		0.00024	ND		0.00028	ND		0.00021	ND		0.00023	ND		0.00022	ND		0.00024
Dibromochloromethane	124-48-1	NA	ND		0.00018	ND		0.00022	ND		0.00016	ND		0.00018	ND		0.00017	ND		0.00019
1,1,2-Trichloroethane	79-00-5	NA	ND		0.00033	ND		0.00039	ND		0.00028	ND		0.00032	ND		0.00031	ND		0.00033
Tetrachloroethene	127-18-4	1.3	ND		0.00032	ND		0.00038	ND		0.00027	ND		0.00031	ND		0.0003	ND		0.00032
Chlorobenzene	108-90-7	1.1	ND		0.00036	ND		0.00043	ND		0.00032	ND		0.00035	ND		0.00034	ND		0.00037
Trichlorofluoromethane	75-69-4	NA	ND		0.00044	ND		0.00052	ND		0.00038	ND		0.00042	ND		0.00041	ND		0.00044
1,2-Dichloroethane	107-06-2	0.02	ND		0.00026	ND		0.0003	ND		0.00022	ND		0.00025	ND		0.00024	ND		0.00026
1,1,1-Trichloroethane	71-55-6	0.68	ND		0.00037	ND		0.00043	ND		0.00032	ND		0.00036	ND		0.00034	ND		0.00037
Bromodichloromethane	75-27-4	NA	ND		0.00032	ND		0.00038	ND		0.00028	ND		0.00031	ND		0.0003	ND		0.00033
trans-1,3-Dichloropropene	10061-02-6	NA	ND		0.00022	ND		0.00026	ND		0.00019	ND		0.00021	ND		0.0002	ND		0.00022
cis-1,3-Dichloropropene	10061-01-5	NA	ND		0.00024	ND		0.00029	ND		0.00021	ND		0.00024	ND		0.00023	ND		0.00024
1,3-Dichloropropene, Total	542-75-6	NA	ND		0.00022	ND		0.00026	ND		0.00019	ND		0.00021	ND		0.0002	ND		0.00022
1,1-Dichloropropene	563-58-6	NA	ND		0.00034	ND		0.00041	ND		0.0003	ND		0.00033	ND		0.00032	ND		0.00035
Bromoform	75-25-2	NA	ND		0.00025	ND		0.00029	ND		0.00022	ND		0.00024	ND		0.00023	ND		0.00025
1,1,2,2-Tetrachloroethane	79-34-5	NA	ND		0.00031	ND		0.00037	ND		0.00027	ND		0.0003	ND		0.00029	ND		0.00032
Benzene	71-43-2	0.06	ND		0.0002	ND		0.00024	ND		0.00018	ND		0.0002	ND		0.00019	ND		0.0002
Toluene	108-88-3	0.7	ND		0.0002	ND		0.00024	ND		0.00018	ND		0.0002	ND		0.00019	ND		0.00021
Ethylbenzene	100-41-4	1	ND		0.00018	ND		0.00021	ND		0.00015	ND		0.00017	ND		0.00017	ND		0.00018
Chloromethane	74-87-3	NA	ND		0.00046	ND		0.00054	ND		0.0004	ND		0.00044	ND		0.00043	ND		0.00046
Bromomethane	74-83-9	NA	ND		0.00035	ND		0.00042	ND		0.00031	ND		0.00034	ND		0.00033	ND		0.00036
Vinyl chloride	75-01-4	0.02	ND		0.00033	ND		0.00039	ND		0.00028	ND		0.00032	ND		0.00031	ND		0.00033
Chloroethane	75-00-3	NA	ND		0.00033	ND		0.00039	ND		0.00029	ND		0.00032	ND		0.00031	ND		0.00033
1,1-Dichloroethene	75-35-4	0.33	ND		0.00039	ND		0.00046	ND		0.00034	ND		0.00038	ND		0.00036	ND		0.00039
trans-1,2-Dichloroethene	156-60-5	0.19	ND		0.00025	ND		0.0003	ND		0.00022	ND		0.00024	ND		0.00024	ND		0.00026
Trichloroethene	79-01-6	0.47	ND		0.00032	ND		0.00038	ND		0.00027	ND		0.00031	ND		0.0003	ND		0.00032
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.00019	ND		0.00023	ND		0.00016	ND		0.00018	ND		0.00018	ND		0.00019
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.00023	ND		0.00027	ND		0.0002	ND		0.00022	ND		0.00021	ND		0.00023
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.00019	ND		0.00023	ND		0.00016	ND		0.00018	ND		0.00018	ND		0.00019
Methyl tert butyl ether	1634-04-4	0.93	ND		0.00016	ND		0.00019	ND		0.00014	ND		0.00016	ND		0.00015	ND		0.00016
p/m-Xylene	179601-23-1	NA	ND		0.00037	ND		0.00044	ND		0.00032	ND		0.00036	ND		0.00034	ND		0.00037
o-Xylene	95-47-6	NA	ND		0.00035	ND		0.00042	ND		0.00031	ND		0.00034	ND		0.00033	ND		0.00036
Xylenes, Total	1330-20-7	1.6	ND		0.00035	ND		0.00042	ND		0.00031	ND		0.00034	ND		0.00033	ND		0.00036
cis-1,2-Dichloroethene	156-59-2	0.25	ND		0.00036	ND		0.00042	ND		0.00031	ND		0.00035	ND		0.00033	ND		0.00036
1,2-Dichloroethene, Total	540-59-0	NA	ND		0.00025	ND		0.0003	ND		0.00022	ND		0.00024	ND		0.00024	ND		0.00026
Dibromomethane	74-95-3	NA	ND		0.00025	ND		0.0003	ND		0.00022	ND		0.00024	ND		0.00023	ND		0.00025
Styrene	100-42-5	NA	ND		0.00042	ND		0.0005	ND		0.00036	ND		0.00041	ND		0.00039	ND		0.00042
Dichlorodifluoromethane	75-71-8	NA	ND		0.00052	ND		0.00062	ND		0.00045	ND		0.00051	ND		0.00049	ND		0.00053
Acetone	67-64-1	0.05	0.0039	J	0.0024	0.028		0.0028	0.0046	J	0.0021	0.0033	J	0.0023	0.011		0.0022	0.0099	J	0.0024
Carbon disulfide	75-15-0	NA	ND		0.0012	ND		0.0014	ND		0.001	ND		0.0011	ND		0.0011	ND		0.0012
2-Butanone	78-93-3	0.12	ND		0.00072	ND		0.00086	ND		0.00063	ND		0.0007	ND		0.00068	ND		0.00073
Vinyl acetate	108-05-4	NA	ND		0.00016	ND		0.00019	ND		0.00014	ND		0.00016	ND		0.00015	ND		0.00016
4-Methyl-2-pentanone	108-10-1	NA	ND		0.00026	ND		0.0003	ND		0.00022	ND		0.00025	ND		0.00024	ND		0.00026

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-21_GRAB-2			TP-X_050218-G			TP-23_GRAB-1			TP-23_GRAB-2			TP-24_GRAB-1			TP-24_GRAB-2		
		DEPTH INTERVAL																		
		LAB ID:	L1815750-41			L1815750-43			L1815928-01			L1815928-02			L1815928-04			L1815928-05		
		COLLECTION DATE:	5/2/2018			5/2/2018			5/3/2018			5/3/2018			5/3/2018			5/3/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
VOLATILE ORGANICS BY 8260/5035																				
1,2,3-Trichloropropane	96-18-4	NA	ND		0.00018	ND		0.00022	ND		0.00016	ND		0.00018	ND		0.00017	ND		0.00019
2-Hexanone	591-78-6	NA	ND		0.0007	ND		0.00083	ND		0.0006	ND		0.00068	ND		0.00065	ND		0.0007
Bromochloromethane	74-97-5	NA	ND		0.00037	ND		0.00044	ND		0.00032	ND		0.00036	ND		0.00035	ND		0.00038
2,2-Dichloropropane	594-20-7	NA	ND		0.00047	ND		0.00056	ND		0.00041	ND		0.00046	ND		0.00044	ND		0.00048
1,2-Dibromoethane	106-93-4	NA	ND		0.00021	ND		0.00025	ND		0.00018	ND		0.0002	ND		0.00019	ND		0.00021
1,3-Dichloropropane	142-28-9	NA	ND		0.00019	ND		0.00023	ND		0.00017	ND		0.00019	ND		0.00018	ND		0.00019
1,1,1,2-Tetrachloroethane	630-20-6	NA	ND		0.00033	ND		0.0004	ND		0.00029	ND		0.00032	ND		0.00031	ND		0.00034
Bromobenzene	108-86-1	NA	ND		0.00023	ND		0.00027	ND		0.0002	ND		0.00022	ND		0.00021	ND		0.00023
n-Butylbenzene	104-51-8	12	ND		0.00024	ND		0.00028	ND		0.00021	ND		0.00023	ND		0.00022	ND		0.00024
sec-Butylbenzene	135-98-8	11	ND		0.00023	ND		0.00027	ND		0.0002	ND		0.00022	ND		0.00021	ND		0.00023
tert-Butylbenzene	98-06-6	5.9	ND		0.00026	ND		0.00031	ND		0.00022	ND		0.00025	ND		0.00024	ND		0.00026
o-Chlorotoluene	95-49-8	NA	ND		0.00023	ND		0.00027	ND		0.0002	ND		0.00022	ND		0.00022	ND		0.00023
p-Chlorotoluene	106-43-4	NA	ND		0.00019	ND		0.00023	ND		0.00017	ND		0.00019	ND		0.00018	ND		0.00019
1,2-Dibromo-3-chloropropane	96-12-8	NA	ND		0.00042	ND		0.00049	ND		0.00036	ND		0.0004	ND		0.00039	ND		0.00042
Hexachlorobutadiene	87-68-3	NA	ND		0.00036	ND		0.00043	ND		0.00032	ND		0.00035	ND		0.00034	ND		0.00037
Isopropylbenzene	98-82-8	NA	ND		0.0002	ND		0.00024	ND		0.00018	ND		0.0002	ND		0.00019	ND		0.0002
p-Isopropyltoluene	99-87-6	NA	ND		0.00021	ND		0.00025	ND		0.00018	ND		0.0002	ND		0.0002	ND		0.00021
Naphthalene	91-20-3	12	ND		0.00014	ND		0.00017	ND		0.00012	ND		0.00014	ND		0.00014	ND		0.00015
Acrylonitrile	107-13-1	NA	ND		0.00054	ND		0.00064	ND		0.00047	ND		0.00052	ND		0.0005	ND		0.00054
n-Propylbenzene	103-65-1	3.9	ND		0.00022	ND		0.00027	ND		0.0002	ND		0.00022	ND		0.00021	ND		0.00023
1,2,3-Trichlorobenzene	87-61-6	NA	ND		0.00026	ND		0.00031	ND		0.00023	ND		0.00026	ND		0.00024	ND		0.00027
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.00022	ND		0.00027	ND		0.0002	ND		0.00022	ND		0.00021	ND		0.00023
1,3,5-Trimethylbenzene	108-67-8	8.4	ND		0.00017	ND		0.0002	ND		0.00015	ND		0.00016	ND		0.00016	ND		0.00017
1,2,4-Trimethylbenzene	95-63-6	3.6	ND		0.0002	ND		0.00023	ND		0.00017	ND		0.00019	ND		0.00018	ND		0.0002
1,4-Dioxane	123-91-1	0.1	ND		0.015	ND		0.018	ND		0.013	ND		0.015	ND		0.014	ND		0.015
p-Diethylbenzene	105-05-5	NA	ND		0.0042	ND		0.005	ND		0.0036	ND		0.0041	ND		0.0039	ND		0.0042
p-Ethyltoluene	622-96-8	NA	ND		0.00024	ND		0.00029	ND		0.00021	ND		0.00024	ND		0.00023	ND		0.00025
1,2,4,5-Tetramethylbenzene	95-93-2	NA	ND		0.00016	ND		0.00019	ND		0.00014	ND		0.00016	ND		0.00015	ND		0.00016
Ethyl ether	60-29-7	NA	ND		0.00027	ND		0.00032	ND		0.00024	ND		0.00026	ND		0.00025	ND		0.00028
trans-1,4-Dichloro-2-butene	110-57-6	NA	ND		0.00041	ND		0.00049	ND		0.00036	ND		0.0004	ND		0.00038	ND		0.00042
Total VOCs			0.0039	-	-	0.028	-	-	0.0046	-	-	0.0033	-	-	0.011	-	-	0.0099	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-25_GRAB-1			TP-25_GRAB-2			TP-26_GRAB-1			TP-26_GRAB-2			TP-27_GRAB-1			TP-27_GRAB-2		
		DEPTH INTERVAL																		
		LAB ID:	L1815928-07			L1815928-08			L1815928-10			L1815928-11			L1815928-13			L1815928-14		
		COLLECTION DATE:	5/3/2018			5/3/2018			5/3/2018			5/3/2018			5/3/2018			5/3/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
VOLATILE ORGANICS BY 8260/5035																				
Methylene chloride	75-09-2	0.05	ND		0.0016	ND		0.0015	ND		0.0017	ND		0.0018	ND		0.0014	ND		0.0016
1,1-Dichloroethane	75-34-3	0.27	ND		0.00027	ND		0.00024	ND		0.00028	ND		0.00029	ND		0.00023	ND		0.00027
Chloroform	67-66-3	0.37	ND		0.00037	ND		0.00034	ND		0.00038	ND		0.0004	ND		0.00032	ND		0.00037
Carbon tetrachloride	56-23-5	0.76	ND		0.00034	ND		0.00031	ND		0.00036	ND		0.00038	ND		0.00029	ND		0.00035
1,2-Dichloropropane	78-87-5	NA	ND		0.00023	ND		0.00021	ND		0.00024	ND		0.00025	ND		0.00019	ND		0.00023
Dibromochloromethane	124-48-1	NA	ND		0.00018	ND		0.00016	ND		0.00018	ND		0.00019	ND		0.00015	ND		0.00018
1,1,2-Trichloroethane	79-00-5	NA	ND		0.00031	ND		0.00028	ND		0.00033	ND		0.00034	ND		0.00027	ND		0.00031
Tetrachloroethene	127-18-4	1.3	ND		0.0003	ND		0.00027	ND		0.00031	ND		0.00033	ND		0.00026	ND		0.0003
Chlorobenzene	108-90-7	1.1	ND		0.00035	ND		0.00032	ND		0.00036	ND		0.00038	ND		0.0003	ND		0.00035
Trichlorofluoromethane	75-69-4	NA	ND		0.00042	ND		0.00038	ND		0.00043	ND		0.00045	ND		0.00036	ND		0.00042
1,2-Dichloroethane	107-06-2	0.02	ND		0.00025	ND		0.00022	ND		0.00026	ND		0.00027	ND		0.00021	ND		0.00025
1,1,1-Trichloroethane	71-55-6	0.68	ND		0.00035	ND		0.00032	ND		0.00036	ND		0.00038	ND		0.0003	ND		0.00035
Bromodichloromethane	75-27-4	NA	ND		0.00031	ND		0.00028	ND		0.00032	ND		0.00034	ND		0.00026	ND		0.00031
trans-1,3-Dichloropropene	10061-02-6	NA	ND		0.00021	ND		0.00019	ND		0.00022	ND		0.00023	ND		0.00018	ND		0.00021
cis-1,3-Dichloropropene	10061-01-5	NA	ND		0.00023	ND		0.00021	ND		0.00024	ND		0.00025	ND		0.0002	ND		0.00023
1,3-Dichloropropene, Total	542-75-6	NA	ND		0.00021	ND		0.00019	ND		0.00022	ND		0.00023	ND		0.00018	ND		0.00021
1,1-Dichloropropene	563-58-6	NA	ND		0.00033	ND		0.0003	ND		0.00034	ND		0.00036	ND		0.00028	ND		0.00033
Bromoform	75-25-2	NA	ND		0.00024	ND		0.00021	ND		0.00025	ND		0.00026	ND		0.0002	ND		0.00024
1,1,2,2-Tetrachloroethane	79-34-5	NA	ND		0.0003	ND		0.00027	ND		0.00031	ND		0.00032	ND		0.00025	ND		0.0003
Benzene	71-43-2	0.06	ND		0.00019	ND		0.00017	ND		0.0002	ND		0.00021	ND		0.00016	ND		0.00019
Toluene	108-88-3	0.7	ND		0.0002	ND		0.00018	ND		0.0002	ND		0.00021	ND		0.00017	ND		0.0002
Ethylbenzene	100-41-4	1	ND		0.00017	ND		0.00015	ND		0.00018	ND		0.00018	ND		0.00014	ND		0.00017
Chloromethane	74-87-3	NA	ND		0.00044	ND		0.0004	ND		0.00045	ND		0.00047	ND		0.00037	ND		0.00044
Bromomethane	74-83-9	NA	ND		0.00034	ND		0.00031	ND		0.00035	ND		0.00037	ND		0.00029	ND		0.00034
Vinyl chloride	75-01-4	0.02	ND		0.00032	ND		0.00028	ND		0.00033	ND		0.00034	ND		0.00027	ND		0.00032
Chloroethane	75-00-3	NA	ND		0.00032	ND		0.00029	ND		0.00033	ND		0.00034	ND		0.00027	ND		0.00032
1,1-Dichloroethene	75-35-4	0.33	ND		0.00037	ND		0.00034	ND		0.00039	ND		0.0004	ND		0.00032	ND		0.00037
trans-1,2-Dichloroethene	156-60-5	0.19	ND		0.00024	ND		0.00022	ND		0.00025	ND		0.00026	ND		0.0002	ND		0.00024
Trichloroethene	79-01-6	0.47	ND		0.0003	ND		0.00027	ND		0.00031	ND		0.00033	ND		0.00026	ND		0.0003
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.00018	ND		0.00016	ND		0.00019	ND		0.0002	ND		0.00015	ND		0.00018
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.00022	ND		0.0002	ND		0.00023	ND		0.00024	ND		0.00018	ND		0.00022
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.00018	ND		0.00016	ND		0.00019	ND		0.0002	ND		0.00015	ND		0.00018
Methyl tert butyl ether	1634-04-4	0.93	ND		0.00015	ND		0.00014	ND		0.00016	ND		0.00017	ND		0.00013	ND		0.00015
p/m-Xylene	179601-23-1	NA	ND		0.00035	ND		0.00032	ND		0.00037	ND		0.00038	ND		0.0003	ND		0.00035
o-Xylene	95-47-6	NA	ND		0.00034	ND		0.00031	ND		0.00035	ND		0.00037	ND		0.00029	ND		0.00034
Xylenes, Total	1330-20-7	1.6	ND		0.00034	ND		0.00031	ND		0.00035	ND		0.00037	ND		0.00029	ND		0.00034
cis-1,2-Dichloroethene	156-59-2	0.25	ND		0.00034	ND		0.00031	ND		0.00036	ND		0.00037	ND		0.00029	ND		0.00034
1,2-Dichloroethene, Total	540-59-0	NA	ND		0.00024	ND		0.00022	ND		0.00025	ND		0.00026	ND		0.0002	ND		0.00024
Dibromomethane	74-95-3	NA	ND		0.00024	ND		0.00022	ND		0.00025	ND		0.00026	ND		0.0002	ND		0.00024
Styrene	100-42-5	NA	ND		0.0004	ND		0.00036	ND		0.00042	ND		0.00044	ND		0.00034	ND		0.0004
Dichlorodifluoromethane	75-71-8	NA	ND		0.0005	ND		0.00045	ND		0.00052	ND		0.00054	ND		0.00042	ND		0.0005
Acetone	67-64-1	0.05	ND		0.0023	0.018		0.0021	0.0064	J	0.0024	0.012		0.0025	0.0066	J	0.002	0.0055	J	0.0023
Carbon disulfide	75-15-0	NA	ND		0.0011	ND		0.001	ND		0.0011	ND		0.0012	ND		0.00094	ND		0.0011
2-Butanone	78-93-3	0.12	ND		0.00069	ND		0.00062	ND		0.00072	ND		0.00075	ND		0.00059	ND		0.00069
Vinyl acetate	108-05-4	NA	ND		0.00015	ND		0.00014	ND		0.00016	ND		0.00017	ND		0.00013	ND		0.00015
4-Methyl-2-pentanone	108-10-1	NA	ND		0.00024	ND		0.00022	ND		0.00025	ND		0.00026	ND		0.00021	ND		0.00024
1,2,3-Trichloropropane	96-18-4	NA	ND		0.00018	ND		0.00016	ND		0.00018	ND		0.00019	ND		0.00015	ND		0.00018
2-Hexanone	591-78-6	NA	ND		0.00067	ND		0.0006	ND		0.00069	ND		0.00072	ND		0.00057	ND		0.00067
Bromochloromethane	74-97-5	NA	ND		0.00036	ND		0.00032	ND		0.00037	ND		0.00039	ND		0.0003	ND		0.00036
2,2-Dichloropropane	594-20-7	NA	ND		0.00045	ND		0.00041	ND		0.00047	ND		0.00049	ND		0.00038	ND		0.00045
1,2-Dibromoethane	106-93-4	NA	ND		0.0002	ND		0.00018	ND		0.00021	ND		0.00022	ND		0.00017	ND		0.0002
1,3-Dichloropropane	142-28-9	NA	ND		0.00018	ND		0.00016	ND		0.00019	ND		0.0002	ND		0.00016	ND		0.00018
1,1,1,2-Tetrachloroethane	630-20-6	NA	ND		0.00032	ND		0.00029	ND		0.00033	ND		0.00034	ND		0.00027	ND		0.00032
Bromobenzene	108-86-1	NA	ND		0.00022	ND		0.0002	ND		0.00023	ND		0.00024	ND		0.00019	ND		0.00022
n-Butylbenzene	104-51-8	12	ND		0.00023	ND		0.00021	ND		0.00024	ND		0.00025	ND		0.00019	ND		0.00023
sec-Butylbenzene	135-98-8	11	ND		0.00022	ND		0.0002	ND		0.00023	ND		0.00024	ND		0.00018	ND		0.00022
tert-Butylbenzene	98-06-6	5.9	ND		0.00025	ND		0.00022	ND		0.00026	ND		0.00027	ND		0.00021	ND		0.00025

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-25_GRAB-1			TP-25_GRAB-2			TP-26_GRAB-1			TP-26_GRAB-2			TP-27_GRAB-1			TP-27_GRAB-2		
		DEPTH INTERVAL																		
		LAB ID:	L1815928-07			L1815928-08			L1815928-10			L1815928-11			L1815928-13			L1815928-14		
		COLLECTION DATE:	5/3/2018			5/3/2018			5/3/2018			5/3/2018			5/3/2018			5/3/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
VOLATILE ORGANICS BY 8260/5035																				
o-Chlorotoluene	95-49-8	NA	ND		0.00022	ND		0.0002	ND		0.00023	ND		0.00024	ND		0.00019	ND		0.00022
p-Chlorotoluene	106-43-4	NA	ND		0.00018	ND		0.00016	ND		0.00019	ND		0.0002	ND		0.00016	ND		0.00018
1,2-Dibromo-3-chloropropane	96-12-8	NA	ND		0.0004	ND		0.00036	ND		0.00041	ND		0.00043	ND		0.00034	ND		0.0004
Hexachlorobutadiene	87-68-3	NA	ND		0.00035	ND		0.00032	ND		0.00036	ND		0.00038	ND		0.0003	ND		0.00035
Isopropylbenzene	98-82-8	NA	ND		0.00019	ND		0.00018	ND		0.0002	ND		0.00021	ND		0.00016	ND		0.0002
p-Isopropyltoluene	99-87-6	NA	ND		0.0002	ND		0.00018	ND		0.00021	ND		0.00022	ND		0.00017	ND		0.0002
Naphthalene	91-20-3	12	ND		0.00014	ND		0.00012	ND		0.00014	ND		0.00015	ND		0.00012	ND		0.00014
Acrylonitrile	107-13-1	NA	ND		0.00052	ND		0.00046	ND		0.00054	ND		0.00056	ND		0.00044	ND		0.00052
n-Propylbenzene	103-65-1	3.9	ND		0.00022	ND		0.00019	ND		0.00022	ND		0.00023	ND		0.00018	ND		0.00022
1,2,3-Trichlorobenzene	87-61-6	NA	ND		0.00025	ND		0.00023	ND		0.00026	ND		0.00027	ND		0.00021	ND		0.00025
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.00022	ND		0.00019	ND		0.00022	ND		0.00023	ND		0.00018	ND		0.00022
1,3,5-Trimethylbenzene	108-67-8	8.4	ND		0.00016	ND		0.00014	ND		0.00017	ND		0.00018	ND		0.00014	ND		0.00016
1,2,4-Trimethylbenzene	95-63-6	3.6	ND		0.00019	ND		0.00017	ND		0.00019	ND		0.0002	ND		0.00016	ND		0.00019
1,4-Dioxane	123-91-1	0.1	ND		0.014	ND		0.013	ND		0.015	ND		0.016	ND		0.012	ND		0.014
p-Diethylbenzene	105-05-5	NA	ND		0.004	ND		0.0036	ND		0.0042	ND		0.0044	ND		0.0034	ND		0.004
p-Ethyltoluene	622-96-8	NA	ND		0.00023	ND		0.00021	ND		0.00024	ND		0.00025	ND		0.0002	ND		0.00024
1,2,4,5-Tetramethylbenzene	95-93-2	NA	ND		0.00016	ND		0.00014	ND		0.00016	ND		0.00017	0.00017	J	0.00013	ND		0.00016
Ethyl ether	60-29-7	NA	ND		0.00026	ND		0.00024	ND		0.00027	ND		0.00028	ND		0.00022	ND		0.00026
trans-1,4-Dichloro-2-butene	110-57-6	NA	ND		0.00039	ND		0.00036	ND		0.00041	ND		0.00043	ND		0.00033	ND		0.00039
Total VOCs			-	-	-	0.018	-	-	0.0064	-	-	0.012	-	-	0.00677	-	-	0.0055	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-29_GRAB-1			TP-29_GRAB-2			TP-30_GRAB-1			TP-30_GRAB-2			TP-31_GRAB-1			TP-31_GRAB-2		
		DEPTH INTERVAL																		
		LAB ID:	L1815928-16			L1815928-17			L1816155-01			L1816155-02			L1816155-04			L1816155-05		
		COLLECTION DATE:	5/3/2018			5/3/2018			5/4/2018			5/4/2018			5/4/2018			5/4/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
VOLATILE ORGANICS BY 8260/5035																				
Methylene chloride	75-09-2	0.05	ND		0.0014	ND		0.0016	ND		0.0018	ND		0.002	ND		0.0017	ND		0.0017
1,1-Dichloroethane	75-34-3	0.27	ND		0.00023	ND		0.00026	ND		0.00029	ND		0.00033	ND		0.00028	ND		0.00028
Chloroform	67-66-3	0.37	ND		0.00032	ND		0.00036	ND		0.0004	ND		0.00046	ND		0.00038	ND		0.00039
Carbon tetrachloride	56-23-5	0.76	ND		0.0003	ND		0.00034	ND		0.00037	ND		0.00043	ND		0.00036	ND		0.00036
1,2-Dichloropropane	78-87-5	NA	ND		0.0002	ND		0.00022	ND		0.00025	ND		0.00028	ND		0.00024	ND		0.00024
Dibromochloromethane	124-48-1	NA	ND		0.00015	ND		0.00017	ND		0.00019	ND		0.00022	ND		0.00018	ND		0.00018
1,1,2-Trichloroethane	79-00-5	NA	ND		0.00027	ND		0.0003	ND		0.00034	ND		0.00039	ND		0.00032	ND		0.00033
Tetrachloroethene	127-18-4	1.3	ND		0.00026	ND		0.00029	ND		0.00033	ND		0.00037	ND		0.00031	ND		0.00032
Chlorobenzene	108-90-7	1.1	ND		0.0003	ND		0.00034	ND		0.00038	ND		0.00043	ND		0.00036	ND		0.00036
Trichlorofluoromethane	75-69-4	NA	ND		0.00036	ND		0.0004	ND		0.00045	ND		0.00052	ND		0.00043	ND		0.00044
1,2-Dichloroethane	107-06-2	0.02	ND		0.00021	ND		0.00024	ND		0.00027	ND		0.0003	ND		0.00026	ND		0.00026
1,1,1-Trichloroethane	71-55-6	0.68	ND		0.0003	ND		0.00034	ND		0.00038	ND		0.00043	ND		0.00036	ND		0.00037
Bromodichloromethane	75-27-4	NA	ND		0.00026	ND		0.0003	ND		0.00033	ND		0.00038	ND		0.00032	ND		0.00032
trans-1,3-Dichloropropene	10061-02-6	NA	ND		0.00018	ND		0.0002	ND		0.00022	ND		0.00026	ND		0.00022	ND		0.00022
cis-1,3-Dichloropropene	10061-01-5	NA	ND		0.0002	ND		0.00022	ND		0.00025	ND		0.00029	ND		0.00024	ND		0.00024
1,3-Dichloropropene, Total	542-75-6	NA	ND		0.00018	ND		0.0002	ND		0.00022	ND		0.00026	ND		0.00022	ND		0.00022
1,1-Dichloropropene	563-58-6	NA	ND		0.00028	ND		0.00032	ND		0.00036	ND		0.00041	ND		0.00034	ND		0.00034
Bromoform	75-25-2	NA	ND		0.0002	ND		0.00023	ND		0.00026	ND		0.00029	ND		0.00025	ND		0.00025
1,1,2,2-Tetrachloroethane	79-34-5	NA	ND		0.00026	ND		0.00029	ND		0.00032	ND		0.00037	ND		0.00031	ND		0.00031
Benzene	71-43-2	0.06	ND		0.00017	ND		0.00019	ND		0.00021	ND		0.00024	ND		0.0002	ND		0.0002
Toluene	108-88-3	0.7	ND		0.00017	ND		0.00019	ND		0.00021	ND		0.00024	ND		0.0002	ND		0.0002
Ethylbenzene	100-41-4	1	ND		0.00015	0.00019	J	0.00016	ND		0.00018	0.00025	J	0.00021	ND		0.00018	ND		0.00018
Chloromethane	74-87-3	NA	ND		0.00038	ND		0.00042	ND		0.00047	ND		0.00054	ND		0.00045	ND		0.00046
Bromomethane	74-83-9	NA	ND		0.00029	ND		0.00033	ND		0.00037	ND		0.00042	ND		0.00035	ND		0.00035
Vinyl chloride	75-01-4	0.02	ND		0.00027	ND		0.00031	ND		0.00034	ND		0.00039	ND		0.00033	ND		0.00033
Chloroethane	75-00-3	NA	ND		0.00027	ND		0.00031	ND		0.00034	ND		0.00039	ND		0.00033	ND		0.00033
1,1-Dichloroethene	75-35-4	0.33	ND		0.00032	ND		0.00036	ND		0.0004	ND		0.00046	ND		0.00039	ND		0.00039
trans-1,2-Dichloroethene	156-60-5	0.19	ND		0.00021	ND		0.00023	ND		0.00026	ND		0.0003	ND		0.00025	ND		0.00025
Trichloroethene	79-01-6	0.47	ND		0.00026	ND		0.00029	ND		0.00033	ND		0.00037	ND		0.00031	ND		0.00032
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.00016	ND		0.00018	ND		0.0002	ND		0.00022	ND		0.00019	ND		0.00019
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.00019	ND		0.00021	ND		0.00024	ND		0.00027	ND		0.00023	ND		0.00023
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.00016	ND		0.00018	ND		0.0002	ND		0.00022	ND		0.00019	ND		0.00019
Methyl tert butyl ether	1634-04-4	0.93	ND		0.00013	ND		0.00015	ND		0.00016	ND		0.00019	ND		0.00016	ND		0.00016
p/m-Xylene	179601-23-1	NA	ND		0.0003	0.00074	J	0.00034	ND		0.00038	ND		0.00043	ND		0.00036	ND		0.00037
o-Xylene	95-47-6	NA	ND		0.00029	ND		0.00033	ND		0.00037	ND		0.00042	ND		0.00035	ND		0.00035
Xylenes, Total	1330-20-7	1.6	ND		0.00029	0.00074	J	0.00033	ND		0.00037	ND		0.00042	ND		0.00035	ND		0.00035
cis-1,2-Dichloroethene	156-59-2	0.25	ND		0.00029	ND		0.00033	ND		0.00037	ND		0.00042	ND		0.00036	ND		0.00036
1,2-Dichloroethene, Total	540-59-0	NA	ND		0.00021	ND		0.00023	ND		0.00026	ND		0.0003	ND		0.00025	ND		0.00025
Dibromomethane	74-95-3	NA	ND		0.00021	ND		0.00023	ND		0.00026	ND		0.0003	ND		0.00025	ND		0.00025
Styrene	100-42-5	NA	ND		0.00034	ND		0.00039	ND		0.00043	ND		0.0005	ND		0.00042	ND		0.00042
Dichlorodifluoromethane	75-71-8	NA	ND		0.00043	ND		0.00049	ND		0.00054	ND		0.00062	ND		0.00052	ND		0.00052
Acetone	67-64-1	0.05	0.01		0.002	0.024		0.0022	0.01	J	0.0025	0.024		0.0028	0.03		0.0024	0.039		0.0024
Carbon disulfide	75-15-0	NA	ND		0.00095	0.0011	J	0.0011	ND		0.0012	ND		0.0014	ND		0.0011	ND		0.0012
2-Butanone	78-93-3	0.12	ND		0.00059	ND		0.00067	ND		0.00075	ND		0.00085	0.13		0.00072	0.0034	J	0.00072
Vinyl acetate	108-05-4	NA	ND		0.00013	ND		0.00015	ND		0.00016	ND		0.00019	ND		0.00016	ND		0.00016
4-Methyl-2-pentanone	108-10-1	NA	ND		0.00021	ND		0.00024	ND		0.00026	ND		0.0003	ND		0.00025	ND		0.00026
1,2,3-Trichloropropane	96-18-4	NA	ND		0.00015	ND		0.00017	ND		0.00019	ND		0.00022	ND		0.00018	ND		0.00018
2-Hexanone	591-78-6	NA	ND		0.00057	ND		0.00065	ND		0.00072	ND		0.00082	ND		0.00069	ND		0.0007
Bromochloromethane	74-97-5	NA	ND		0.00031	ND		0.00035	ND		0.00039	ND		0.00044	ND		0.00037	ND		0.00037
2,2-Dichloropropane	594-20-7	NA	ND		0.00039	ND		0.00044	ND		0.00049	ND		0.00056	ND		0.00047	ND		0.00047
1,2-Dibromoethane	106-93-4	NA	ND		0.00017	ND		0.00019	ND		0.00022	ND		0.00025	ND		0.00021	ND		0.00021
1,3-Dichloropropane	142-28-9	NA	ND		0.00016	ND		0.00018	ND		0.0002	ND		0.00023	ND		0.00019	ND		0.00019
1,1,1,2-Tetrachloroethane	630-20-6	NA	ND		0.00027	ND		0.00031	ND		0.00034	ND		0.00039	ND		0.00033	ND		0.00033
Bromobenzene	108-86-1	NA	ND		0.00019	ND		0.00021	ND		0.00024	ND		0.00027	ND		0.00023	ND		0.00023
n-Butylbenzene	104-51-8	12	ND		0.0002	ND		0.00022	ND		0.00025	ND		0.00028	ND		0.00024	ND		0.00024
sec-Butylbenzene	135-98-8	11	ND		0.00019	ND		0.00021	ND		0.00024	ND		0.00027	ND		0.00022	ND		0.00023
tert-Butylbenzene	98-06-6	5.9	ND		0.00021	ND		0.00024	ND		0.00027	ND		0.0003	ND		0.00026	ND		0.00026

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-29_GRAB-1			TP-29_GRAB-2			TP-30_GRAB-1			TP-30_GRAB-2			TP-31_GRAB-1			TP-31_GRAB-2		
		DEPTH INTERVAL																		
		LAB ID:	L1815928-16			L1815928-17			L1816155-01			L1816155-02			L1816155-04			L1816155-05		
		COLLECTION DATE:	5/3/2018			5/3/2018			5/4/2018			5/4/2018			5/4/2018			5/4/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
VOLATILE ORGANICS BY 8260/5035																				
o-Chlorotoluene	95-49-8	NA	ND		0.00019	ND		0.00022	ND		0.00024	ND		0.00027	ND		0.00023	ND		0.00023
p-Chlorotoluene	106-43-4	NA	ND		0.00016	ND		0.00018	ND		0.0002	ND		0.00023	ND		0.00019	ND		0.00019
1,2-Dibromo-3-chloropropane	96-12-8	NA	ND		0.00034	ND		0.00038	ND		0.00043	ND		0.00049	ND		0.00041	ND		0.00042
Hexachlorobutadiene	87-68-3	NA	ND		0.0003	ND		0.00034	ND		0.00038	ND		0.00043	ND		0.00036	ND		0.00036
Isopropylbenzene	98-82-8	NA	ND		0.00017	ND		0.00019	ND		0.00021	ND		0.00024	ND		0.0002	ND		0.0002
p-Isopropyltoluene	99-87-6	NA	ND		0.00017	0.00025	J	0.0002	ND		0.00022	ND		0.00025	ND		0.00021	ND		0.00021
Naphthalene	91-20-3	12	ND		0.00012	0.0017	J	0.00013	ND		0.00015	0.00038	J	0.00017	ND		0.00014	0.0005	J	0.00014
Acrylonitrile	107-13-1	NA	ND		0.00044	ND		0.0005	ND		0.00056	ND		0.00064	ND		0.00053	ND		0.00054
n-Propylbenzene	103-65-1	3.9	ND		0.00018	ND		0.00021	ND		0.00023	ND		0.00027	ND		0.00022	ND		0.00022
1,2,3-Trichlorobenzene	87-61-6	NA	ND		0.00022	ND		0.00024	ND		0.00027	ND		0.00031	ND		0.00026	ND		0.00026
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.00018	ND		0.00021	ND		0.00023	ND		0.00027	ND		0.00022	ND		0.00022
1,3,5-Trimethylbenzene	108-67-8	8.4	ND		0.00014	ND		0.00016	ND		0.00017	ND		0.0002	ND		0.00017	ND		0.00017
1,2,4-Trimethylbenzene	95-63-6	3.6	ND		0.00016	ND		0.00018	ND		0.0002	ND		0.00023	ND		0.00019	ND		0.0002
1,4-Dioxane	123-91-1	0.1	ND		0.012	ND		0.014	ND		0.016	ND		0.018	ND		0.015	ND		0.015
p-Diethylbenzene	105-05-5	NA	ND		0.0034	ND		0.0039	ND		0.0043	ND		0.005	ND		0.0042	ND		0.0042
p-Ethyltoluene	622-96-8	NA	ND		0.0002	ND		0.00023	ND		0.00025	ND		0.00029	ND		0.00024	ND		0.00024
1,2,4,5-Tetramethylbenzene	95-93-2	NA	ND		0.00013	ND		0.00015	ND		0.00017	ND		0.00019	ND		0.00016	ND		0.00016
Ethyl ether	60-29-7	NA	ND		0.00022	ND		0.00025	ND		0.00028	ND		0.00032	ND		0.00027	ND		0.00027
trans-1,4-Dichloro-2-butene	110-57-6	NA	ND		0.00034	ND		0.00038	ND		0.00042	ND		0.00048	ND		0.00041	ND		0.00041
Total VOCs			0.01	-	-	0.02798	-	-	0.01	-	-	0.02463	-	-	0.16	-	-	0.0429	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-32_GRAB-1			TP-32_GRAB-2			TP-X-050418-G		
		DEPTH INTERVAL									
		LAB ID:	L1816155-07			L1816155-08			L1816155-10		
		COLLECTION DATE:	5/4/2018			5/4/2018			5/4/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
VOLATILE ORGANICS BY 8260/5035											
Methylene chloride	75-09-2	0.05	ND		0.0015	ND		0.0016	ND		0.0018
1,1-Dichloroethane	75-34-3	0.27	ND		0.00024	ND		0.00027	ND		0.00029
Chloroform	67-66-3	0.37	ND		0.00034	ND		0.00037	ND		0.0004
Carbon tetrachloride	56-23-5	0.76	ND		0.00031	ND		0.00034	ND		0.00037
1,2-Dichloropropane	78-87-5	NA	ND		0.00021	ND		0.00022	ND		0.00025
Dibromochloromethane	124-48-1	NA	ND		0.00016	ND		0.00017	ND		0.00019
1,1,2-Trichloroethane	79-00-5	NA	ND		0.00028	ND		0.00031	ND		0.00034
Tetrachloroethene	127-18-4	1.3	ND		0.00027	ND		0.0003	ND		0.00033
Chlorobenzene	108-90-7	1.1	ND		0.00032	ND		0.00034	ND		0.00038
Trichlorofluoromethane	75-69-4	NA	ND		0.00038	ND		0.00041	ND		0.00045
1,2-Dichloroethane	107-06-2	0.02	ND		0.00022	ND		0.00024	ND		0.00027
1,1,1-Trichloroethane	71-55-6	0.68	ND		0.00032	ND		0.00035	ND		0.00038
Bromodichloromethane	75-27-4	NA	ND		0.00028	ND		0.0003	ND		0.00033
trans-1,3-Dichloropropene	10061-02-6	NA	ND		0.00019	ND		0.0002	ND		0.00022
cis-1,3-Dichloropropene	10061-01-5	NA	ND		0.00021	ND		0.00023	ND		0.00025
1,3-Dichloropropene, Total	542-75-6	NA	ND		0.00019	ND		0.0002	ND		0.00022
1,1-Dichloropropene	563-58-6	NA	ND		0.0003	ND		0.00032	ND		0.00036
Bromoform	75-25-2	NA	ND		0.00021	ND		0.00023	ND		0.00026
1,1,2,2-Tetrachloroethane	79-34-5	NA	ND		0.00027	ND		0.00029	ND		0.00032
Benzene	71-43-2	0.06	ND		0.00017	ND		0.00019	ND		0.00021
Toluene	108-88-3	0.7	ND		0.00018	ND		0.00019	ND		0.00021
Ethylbenzene	100-41-4	1	ND		0.00015	ND		0.00017	ND		0.00018
Chloromethane	74-87-3	NA	ND		0.00039	ND		0.00043	ND		0.00047
Bromomethane	74-83-9	NA	ND		0.00031	ND		0.00033	ND		0.00037
Vinyl chloride	75-01-4	0.02	ND		0.00028	ND		0.00031	ND		0.00034
Chloroethane	75-00-3	NA	ND		0.00029	ND		0.00031	ND		0.00034
1,1-Dichloroethene	75-35-4	0.33	ND		0.00034	ND		0.00037	ND		0.0004
trans-1,2-Dichloroethene	156-60-5	0.19	ND		0.00022	ND		0.00024	ND		0.00026
Trichloroethene	79-01-6	0.47	ND		0.00027	ND		0.0003	ND		0.00033
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.00016	ND		0.00018	ND		0.0002
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.0002	ND		0.00022	ND		0.00024
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.00016	ND		0.00018	ND		0.0002
Methyl tert butyl ether	1634-04-4	0.93	ND		0.00014	ND		0.00015	ND		0.00017
p/m-Xylene	179601-23-1	NA	ND		0.00032	ND		0.00035	ND		0.00038
o-Xylene	95-47-6	NA	ND		0.00031	ND		0.00033	ND		0.00037
Xylenes, Total	1330-20-7	1.6	ND		0.00031	ND		0.00033	ND		0.00037
cis-1,2-Dichloroethene	156-59-2	0.25	ND		0.00031	ND		0.00034	ND		0.00037
1,2-Dichloroethene, Total	540-59-0	NA	ND		0.00022	ND		0.00024	ND		0.00026
Dibromomethane	74-95-3	NA	ND		0.00022	ND		0.00024	ND		0.00026
Styrene	100-42-5	NA	ND		0.00036	ND		0.0004	ND		0.00044
Dichlorodifluoromethane	75-71-8	NA	ND		0.00045	ND		0.00049	ND		0.00054
Acetone	67-64-1	0.05	0.012		0.0021	0.012		0.0023	0.063		0.0025
Carbon disulfide	75-15-0	NA	ND		0.001	ND		0.0011	ND		0.0012
2-Butanone	78-93-3	0.12	ND		0.00062	ND		0.00068	0.0053	J	0.00075
Vinyl acetate	108-05-4	NA	ND		0.00014	ND		0.00015	ND		0.00017
4-Methyl-2-pentanone	108-10-1	NA	ND		0.00022	ND		0.00024	ND		0.00026
1,2,3-Trichloropropane	96-18-4	NA	ND		0.00016	ND		0.00018	ND		0.00019
2-Hexanone	591-78-6	NA	ND		0.0006	ND		0.00066	ND		0.00072
Bromochloromethane	74-97-5	NA	ND		0.00032	ND		0.00035	ND		0.00039
2,2-Dichloropropane	594-20-7	NA	ND		0.00041	ND		0.00044	ND		0.00049
1,2-Dibromoethane	106-93-4	NA	ND		0.00018	ND		0.0002	ND		0.00022
1,3-Dichloropropane	142-28-9	NA	ND		0.00016	ND		0.00018	ND		0.0002
1,1,1,2-Tetrachloroethane	630-20-6	NA	ND		0.00029	ND		0.00031	ND		0.00034
Bromobenzene	108-86-1	NA	ND		0.0002	ND		0.00022	ND		0.00024
n-Butylbenzene	104-51-8	12	ND		0.00021	ND		0.00022	ND		0.00025
sec-Butylbenzene	135-98-8	11	ND		0.0002	ND		0.00021	ND		0.00024
tert-Butylbenzene	98-06-6	5.9	ND		0.00022	ND		0.00024	ND		0.00027

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 1 - VOCs
May 2018

		SAMPLE ID:	TP-32_GRAB-1			TP-32_GRAB-2			TP-X-050418-G		
		DEPTH INTERVAL									
		LAB ID:	L1816155-07			L1816155-08			L1816155-10		
		COLLECTION DATE:	5/4/2018			5/4/2018			5/4/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
VOLATILE ORGANICS BY 8260/5035											
o-Chlorotoluene	95-49-8	NA	ND		0.0002	ND		0.00022	ND		0.00024
p-Chlorotoluene	106-43-4	NA	ND		0.00016	ND		0.00018	ND		0.0002
1,2-Dibromo-3-chloropropane	96-12-8	NA	ND		0.00036	ND		0.00039	ND		0.00043
Hexachlorobutadiene	87-68-3	NA	ND		0.00032	ND		0.00034	ND		0.00038
Isopropylbenzene	98-82-8	NA	ND		0.00018	ND		0.00019	ND		0.00021
p-Isopropyltoluene	99-87-6	NA	ND		0.00018	ND		0.0002	ND		0.00022
Naphthalene	91-20-3	12	ND		0.00012	ND		0.00014	0.00071	J	0.00015
Acrylonitrile	107-13-1	NA	ND		0.00046	ND		0.00051	ND		0.00056
n-Propylbenzene	103-65-1	3.9	ND		0.00019	ND		0.00021	ND		0.00023
1,2,3-Trichlorobenzene	87-61-6	NA	ND		0.00023	ND		0.00025	ND		0.00027
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.00019	ND		0.00021	ND		0.00023
1,3,5-Trimethylbenzene	108-67-8	8.4	ND		0.00014	ND		0.00016	ND		0.00017
1,2,4-Trimethylbenzene	95-63-6	3.6	ND		0.00017	ND		0.00018	ND		0.0002
1,4-Dioxane	123-91-1	0.1	ND		0.013	ND		0.014	ND		0.016
p-Diethylbenzene	105-05-5	NA	ND		0.0036	ND		0.004	ND		0.0043
p-Ethyltoluene	622-96-8	NA	ND		0.00021	ND		0.00023	ND		0.00025
1,2,4,5-Tetramethylbenzene	95-93-2	NA	ND		0.00014	ND		0.00015	ND		0.00017
Ethyl ether	60-29-7	NA	ND		0.00024	ND		0.00026	ND		0.00028
trans-1,4-Dichloro-2-butene	110-57-6	NA	ND		0.00036	ND		0.00039	ND		0.00042
Total VOCs			0.012	-	-	0.012	-	-	0.06901	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 2 - SVOCs
May 2018

		SAMPLE ID:	TP-2_COMP			TP-7A_COMP			TP-7B_COMP			TP-12_COMP			TP-14A_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815263-03			L1815263-06			L1815263-09			L1815263-12			L1815263-15		
		COLLECTION DATE:	4/30/2018			4/30/2018			4/30/2018			4/30/2018			4/30/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
SEMIVOLATILE ORGANICS BY GC/MS																	
Acenaphthene	83-32-9	98	ND		0.02	ND		0.019	ND		0.019	ND		0.02	ND		0.019
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.022	ND		0.021	ND		0.021	ND		0.022	ND		0.021
Hexachlorobenzene	118-74-1	1.2	ND		0.022	ND		0.021	ND		0.021	ND		0.021	ND		0.02
Bis(2-chloroethyl)ether	111-44-4	NA	ND		0.026	ND		0.025	ND		0.025	ND		0.026	ND		0.025
2-Chloronaphthalene	91-58-7	NA	ND		0.019	ND		0.018	ND		0.018	ND		0.019	ND		0.018
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.035	ND		0.033	ND		0.033	ND		0.034	ND		0.033
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.033	ND		0.032	ND		0.032	ND		0.032	ND		0.031
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.034	ND		0.032	ND		0.032	ND		0.033	ND		0.032
3,3'-Dichlorobenzidine	91-94-1	NA	ND		0.051	ND		0.05	ND		0.049	ND		0.05	ND		0.048
2,4-Dinitrotoluene	121-14-2	NA	ND		0.039	ND		0.037	ND		0.037	ND		0.038	ND		0.036
2,6-Dinitrotoluene	606-20-2	NA	ND		0.033	ND		0.032	ND		0.032	ND		0.032	ND		0.031
Fluoranthene	206-44-0	100	0.068	J	0.022	0.26		0.021	0.11		0.021	0.062	J	0.022	0.049	J	0.021
4-Chlorophenyl phenyl ether	7005-72-3	NA	ND		0.021	ND		0.02	ND		0.02	ND		0.02	ND		0.02
4-Bromophenyl phenyl ether	101-55-3	NA	ND		0.029	ND		0.028	ND		0.028	ND		0.029	ND		0.028
Bis(2-chloroisopropyl)ether	108-60-1	NA	ND		0.033	ND		0.032	ND		0.032	ND		0.032	ND		0.031
Bis(2-chloroethoxy)methane	111-91-1	NA	ND		0.019	ND		0.019	ND		0.018	ND		0.019	ND		0.018
Hexachlorobutadiene	87-68-3	NA	ND		0.028	ND		0.027	ND		0.027	ND		0.028	ND		0.027
Hexachlorocyclopentadiene	77-47-4	NA	ND		0.18	ND		0.17	ND		0.17	ND		0.17	ND		0.16
Hexachloroethane	67-72-1	NA	ND		0.031	ND		0.03	ND		0.03	ND		0.03	ND		0.03
Isophorone	78-59-1	NA	ND		0.025	ND		0.024	ND		0.024	ND		0.024	ND		0.024
Naphthalene	91-20-3	12	ND		0.024	ND		0.023	ND		0.022	ND		0.023	ND		0.022
Nitrobenzene	98-95-3	NA	ND		0.028	ND		0.028	ND		0.027	ND		0.028	ND		0.027
NDPA/DPA	86-30-6	NA	ND		0.022	ND		0.021	ND		0.021	ND		0.022	ND		0.021
n-Nitrosodi-n-propylamine	621-64-7	NA	ND		0.03	ND		0.029	ND		0.028	ND		0.029	ND		0.028
Bis(2-ethylhexyl)phthalate	117-81-7	NA	ND		0.067	ND		0.064	ND		0.064	ND		0.065	ND		0.063
Butyl benzyl phthalate	85-68-7	NA	ND		0.049	ND		0.047	ND		0.046	ND		0.048	ND		0.046
Di-n-butylphthalate	84-74-2	NA	ND		0.037	ND		0.035	ND		0.035	ND		0.036	ND		0.035
Di-n-octylphthalate	117-84-0	NA	ND		0.066	ND		0.063	ND		0.063	ND		0.064	ND		0.062
Diethyl phthalate	84-66-2	NA	ND		0.018	ND		0.017	ND		0.017	ND		0.017	ND		0.017
Dimethyl phthalate	131-11-3	NA	ND		0.04	ND		0.039	ND		0.039	ND		0.04	ND		0.038
Benzo(a)anthracene	56-55-3	1	0.039	J	0.022	0.19		0.021	0.045	J	0.021	0.031	J	0.021	0.028	J	0.02
Benzo(a)pyrene	50-32-8	1	ND		0.047	0.18		0.045	ND		0.045	ND		0.046	ND		0.044
Benzo(b)fluoranthene	205-99-2	1	0.051	J	0.032	0.24		0.031	0.057	J	0.031	0.036	J	0.032	0.031	J	0.031
Benzo(k)fluoranthene	207-08-9	1.7	ND		0.031	0.097	J	0.03	ND		0.03	ND		0.03	ND		0.029
Chrysene	218-01-9	1	0.04	J	0.02	0.19		0.019	0.05	J	0.019	0.029	J	0.02	0.026	J	0.019
Acenaphthylene	208-96-8	100	ND		0.03	0.034	J	0.029	ND		0.028	ND		0.029	ND		0.028
Anthracene	120-12-7	100	ND		0.038	0.036	J	0.036	ND		0.036	ND		0.037	ND		0.036
Benzo(ghi)perylene	191-24-2	100	0.025	J	0.023	0.13	J	0.022	0.029	J	0.022	ND		0.022	ND		0.021
Fluorene	86-73-7	100	ND		0.019	ND		0.018	ND		0.018	ND		0.018	ND		0.018
Phenanthrene	85-01-8	100	0.036	J	0.023	0.12		0.023	0.1	J	0.022	0.048	J	0.023	0.041	J	0.022
Dibenzo(a,h)anthracene	53-70-3	0.33	ND		0.022	0.048	J	0.022	ND		0.021	ND		0.022	ND		0.021
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	ND		0.027	0.14	J	0.026	0.029	J	0.026	ND		0.026	ND		0.025

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 2 - SVOCs
May 2018

		SAMPLE ID:	TP-2_COMP			TP-7A_COMP			TP-7B_COMP			TP-12_COMP			TP-14A_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815263-03			L1815263-06			L1815263-09			L1815263-12			L1815263-15		
		COLLECTION DATE:	4/30/2018			4/30/2018			4/30/2018			4/30/2018			4/30/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
SEMIVOLATILE ORGANICS BY GC/MS																	
Pyrene	129-00-0	100	0.064	J	0.019	0.24		0.018	0.1	J	0.018	0.057	J	0.019	0.046	J	0.018
Biphenyl	92-52-4	NA	ND		0.045	ND		0.043	ND		0.043	ND		0.044	ND		0.042
4-Chloroaniline	106-47-8	NA	ND		0.035	ND		0.034	ND		0.034	ND		0.034	ND		0.033
2-Nitroaniline	88-74-4	NA	ND		0.037	ND		0.036	ND		0.036	ND		0.036	ND		0.035
3-Nitroaniline	99-09-2	NA	ND		0.036	ND		0.035	ND		0.035	ND		0.036	ND		0.034
4-Nitroaniline	100-01-6	NA	ND		0.08	ND		0.077	ND		0.076	ND		0.078	ND		0.076
Dibenzofuran	132-64-9	59	ND		0.018	ND		0.018	ND		0.017	ND		0.018	ND		0.017
2-Methylnaphthalene	91-57-6	NA	ND		0.023	ND		0.022	ND		0.022	ND		0.023	ND		0.022
1,2,4,5-Tetrachlorobenzene	95-94-3	NA	ND		0.02	ND		0.019	ND		0.019	ND		0.02	ND		0.019
Acetophenone	98-86-2	NA	ND		0.024	ND		0.023	ND		0.023	ND		0.023	ND		0.023
2,4,6-Trichlorophenol	88-06-2	NA	ND		0.037	ND		0.035	ND		0.035	ND		0.036	ND		0.035
p-Chloro-m-cresol	59-50-7	NA	ND		0.029	ND		0.028	ND		0.028	ND		0.028	ND		0.027
2-Chlorophenol	95-57-8	NA	ND		0.023	ND		0.022	ND		0.022	ND		0.022	ND		0.022
2,4-Dichlorophenol	120-83-2	NA	ND		0.031	ND		0.03	ND		0.03	ND		0.03	ND		0.029
2,4-Dimethylphenol	105-67-9	NA	ND		0.064	ND		0.061	ND		0.061	ND		0.062	ND		0.06
2-Nitrophenol	88-75-5	NA	ND		0.073	ND		0.07	ND		0.069	ND		0.071	ND		0.069
4-Nitrophenol	100-02-7	NA	ND		0.079	ND		0.076	ND		0.075	ND		0.077	ND		0.074
2,4-Dinitrophenol	51-28-5	NA	ND		0.09	ND		0.087	ND		0.086	ND		0.088	ND		0.085
4,6-Dinitro-o-cresol	534-52-1	NA	ND		0.093	ND		0.089	ND		0.088	ND		0.091	ND		0.088
Pentachlorophenol	87-86-5	0.8	ND		0.042	ND		0.041	ND		0.041	ND		0.042	ND		0.04
Phenol	108-95-2	0.33	ND		0.029	ND		0.028	ND		0.028	ND		0.028	ND		0.028
2-Methylphenol	95-48-7	0.33	ND		0.03	ND		0.029	ND		0.029	ND		0.029	ND		0.028
3-Methylphenol/4-Methylphenol	108-39-4	0.33	ND		0.03	ND		0.029	ND		0.029	ND		0.03	ND		0.028
2,4,5-Trichlorophenol	95-95-4	NA	ND		0.037	ND		0.036	ND		0.035	ND		0.036	ND		0.035
Benzoic Acid	65-85-0	NA	ND		0.2	ND		0.19	ND		0.19	ND		0.19	ND		0.18
Benzyl Alcohol	100-51-6	NA	ND		0.059	ND		0.057	ND		0.056	ND		0.058	ND		0.056
Carbazole	86-74-8	NA	ND		0.019	ND		0.018	ND		0.018	ND		0.018	ND		0.018
Total SVOCs			0.323	-	-	1.905	-	-	0.52	-	-	0.263	-	-	0.221	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.
2. R1 Lab IDs correspond to resamples of sample results. Only resampled data is displayed.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 2 - SVOCs
May 2018

		SAMPLE ID:	TP-14B_COMP			TP-20_COMP			TP-20_COMP			TP-22_COMP			TP-28_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815263-18			L1815263-21			L1815263-21 R1			L1815263-24			L1815263-27		
		COLLECTION DATE:	4/30/2018			4/30/2018			4/30/2018			4/30/2018			4/30/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
SEMIVOLATILE ORGANICS BY GC/MS									-	-	-						
Acenaphthene	83-32-9	98	ND		0.019	16		0.18	-		-	ND		0.018	ND		0.019
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.021	ND		0.2	-		-	ND		0.02	ND		0.021
Hexachlorobenzene	118-74-1	1.2	ND		0.02	ND		0.2	-		-	ND		0.02	ND		0.02
Bis(2-chloroethyl)ether	111-44-4	NA	ND		0.025	ND		0.24	-		-	ND		0.024	ND		0.024
2-Chloronaphthalene	91-58-7	NA	ND		0.018	ND		0.18	-		-	ND		0.017	ND		0.018
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.033	ND		0.32	-		-	ND		0.032	ND		0.032
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.032	ND		0.31	-		-	ND		0.03	ND		0.031
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.032	ND		0.31	-		-	ND		0.031	ND		0.032
3,3'-Dichlorobenzidine	91-94-1	NA	ND		0.049	ND		0.47	-		-	ND		0.047	ND		0.048
2,4-Dinitrotoluene	121-14-2	NA	ND		0.037	ND		0.36	-		-	ND		0.035	ND		0.036
2,6-Dinitrotoluene	606-20-2	NA	ND		0.031	ND		0.31	-		-	ND		0.03	ND		0.031
Fluoranthene	206-44-0	100	0.059	J	0.021	52		0.2	-		-	0.18		0.02	0.21		0.021
4-Chlorophenyl phenyl ether	7005-72-3	NA	ND		0.02	ND		0.19	-		-	ND		0.019	ND		0.019
4-Bromophenyl phenyl ether	101-55-3	NA	ND		0.028	ND		0.27	-		-	ND		0.027	ND		0.028
Bis(2-chloroisopropyl)ether	108-60-1	NA	ND		0.031	ND		0.3	-		-	ND		0.03	ND		0.031
Bis(2-chloroethoxy)methane	111-91-1	NA	ND		0.018	ND		0.18	-		-	ND		0.018	ND		0.018
Hexachlorobutadiene	87-68-3	NA	ND		0.027	ND		0.26	-		-	ND		0.026	ND		0.026
Hexachlorocyclopentadiene	77-47-4	NA	ND		0.17	ND		1.6	-		-	ND		0.16	ND		0.16
Hexachloroethane	67-72-1	NA	ND		0.03	ND		0.29	-		-	ND		0.028	ND		0.029
Isophorone	78-59-1	NA	ND		0.024	ND		0.23	-		-	ND		0.023	ND		0.024
Naphthalene	91-20-3	12	ND		0.022	14		0.22	-		-	ND		0.021	ND		0.022
Nitrobenzene	98-95-3	NA	ND		0.027	ND		0.26	-		-	ND		0.026	ND		0.027
NDPA/DPA	86-30-6	NA	ND		0.021	ND		0.2	-		-	ND		0.02	ND		0.021
n-Nitrosodi-n-propylamine	621-64-7	NA	ND		0.028	ND		0.28	-		-	ND		0.027	ND		0.028
Bis(2-ethylhexyl)phthalate	117-81-7	NA	ND		0.064	ND		0.62	-		-	ND		0.061	0.078	J	0.063
Butyl benzyl phthalate	85-68-7	NA	ND		0.046	ND		0.45	-		-	ND		0.044	0.14	J	0.046
Di-n-butylphthalate	84-74-2	NA	ND		0.035	ND		0.34	-		-	ND		0.033	ND		0.034
Di-n-octylphthalate	117-84-0	NA	ND		0.062	ND		0.61	-		-	ND		0.06	ND		0.062
Diethyl phthalate	84-66-2	NA	ND		0.017	ND		0.16	-		-	ND		0.016	ND		0.017
Dimethyl phthalate	131-11-3	NA	ND		0.038	ND		0.37	-		-	ND		0.037	ND		0.038
Benzo(a)anthracene	56-55-3	1	0.03	J	0.021	24		0.2	-		-	0.097	J	0.02	0.1	J	0.02
Benzo(a)pyrene	50-32-8	1	ND		0.045	19		0.44	-		-	0.089	J	0.043	0.084	J	0.044
Benzo(b)fluoranthene	205-99-2	1	0.038	J	0.031	23		0.3	-		-	0.11		0.03	0.11		0.03
Benzo(k)fluoranthene	207-08-9	1.7	ND		0.029	8		0.28	-		-	0.04	J	0.028	0.035	J	0.029
Chrysene	218-01-9	1	0.031	J	0.019	21		0.18	-		-	0.096	J	0.018	0.095	J	0.019
Acenaphthylene	208-96-8	100	ND		0.028	ND		0.28	-		-	ND		0.027	ND		0.028
Anthracene	120-12-7	100	ND		0.036	22		0.35	-		-	ND		0.034	0.045	J	0.035
Benzo(ghi)perylene	191-24-2	100	ND		0.022	11		0.21	-		-	0.059	J	0.021	0.054	J	0.021
Fluorene	86-73-7	100	ND		0.018	13		0.17	-		-	ND		0.017	ND		0.018
Phenanthrene	85-01-8	100	0.037	J	0.022	74	E	0.22	79		0.43	0.11		0.021	0.16		0.022
Dibenzo(a,h)anthracene	53-70-3	0.33	ND		0.021	2.5		0.21	-		-	ND		0.02	ND		0.021
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	ND		0.026	12		0.25	-		-	0.059	J	0.024	0.05	J	0.025

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 2 - SVOCs
May 2018

		SAMPLE ID:	TP-14B_COMP			TP-20_COMP			TP-20_COMP			TP-22_COMP			TP-28_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815263-18			L1815263-21			L1815263-21 R1			L1815263-24			L1815263-27		
		COLLECTION DATE:	4/30/2018			4/30/2018			4/30/2018			4/30/2018			4/30/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
SEMIVOLATILE ORGANICS BY GC/MS									-	-	-						
Pyrene	129-00-0	100	0.056	J	0.018	43		0.18	-		-	0.17		0.018	0.19		0.018
Biphenyl	92-52-4	NA	ND		0.042	2	J	0.41	-		-	ND		0.041	ND		0.042
4-Chloroaniline	106-47-8	NA	ND		0.033	ND		0.32	-		-	ND		0.032	ND		0.033
2-Nitroaniline	88-74-4	NA	ND		0.035	ND		0.34	-		-	ND		0.034	ND		0.035
3-Nitroaniline	99-09-2	NA	ND		0.035	ND		0.34	-		-	ND		0.033	ND		0.034
4-Nitroaniline	100-01-6	NA	ND		0.076	ND		0.74	-		-	ND		0.073	ND		0.075
Dibenzofuran	132-64-9	59	ND		0.017	12		0.17	-		-	ND		0.017	ND		0.017
2-Methylnaphthalene	91-57-6	NA	ND		0.022	6.4		0.22	-		-	ND		0.021	ND		0.022
1,2,4,5-Tetrachlorobenzene	95-94-3	NA	ND		0.019	ND		0.19	-		-	ND		0.018	ND		0.019
Acetophenone	98-86-2	NA	ND		0.023	ND		0.22	-		-	ND		0.022	ND		0.022
2,4,6-Trichlorophenol	88-06-2	NA	ND		0.035	ND		0.34	-		-	ND		0.033	ND		0.034
p-Chloro-m-cresol	59-50-7	NA	ND		0.027	ND		0.26	-		-	ND		0.026	ND		0.027
2-Chlorophenol	95-57-8	NA	ND		0.022	ND		0.21	-		-	ND		0.021	ND		0.021
2,4-Dichlorophenol	120-83-2	NA	ND		0.03	ND		0.29	-		-	ND		0.028	ND		0.029
2,4-Dimethylphenol	105-67-9	NA	ND		0.06	ND		0.59	-		-	ND		0.058	ND		0.06
2-Nitrophenol	88-75-5	NA	ND		0.069	ND		0.67	-		-	ND		0.066	ND		0.068
4-Nitrophenol	100-02-7	NA	ND		0.075	ND		0.73	-		-	ND		0.072	ND		0.074
2,4-Dinitrophenol	51-28-5	NA	ND		0.086	ND		0.83	-		-	ND		0.082	ND		0.084
4,6-Dinitro-o-cresol	534-52-1	NA	ND		0.088	ND		0.86	-		-	ND		0.085	ND		0.087
Pentachlorophenol	87-86-5	0.8	ND		0.04	ND		0.39	-		-	ND		0.039	ND		0.04
Phenol	108-95-2	0.33	ND		0.028	ND		0.27	-		-	ND		0.027	ND		0.027
2-Methylphenol	95-48-7	0.33	ND		0.028	ND		0.28	-		-	ND		0.027	ND		0.028
3-Methylphenol/4-Methylphenol	108-39-4	0.33	ND		0.029	0.4	J	0.28	-		-	ND		0.028	ND		0.028
2,4,5-Trichlorophenol	95-95-4	NA	ND		0.035	ND		0.34	-		-	ND		0.034	ND		0.035
Benzoic Acid	65-85-0	NA	ND		0.18	ND		1.8	-		-	ND		0.18	ND		0.18
Benzyl Alcohol	100-51-6	NA	ND		0.056	ND		0.55	-		-	ND		0.054	ND		0.055
Carbazole	86-74-8	NA	ND		0.018	9.7		0.17	-		-	ND		0.017	ND		0.018
Total SVOCs			0.251	-	-	385	-	-	79	-	-	1.01	-	-	1.351	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.
2. R1 Lab IDs correspond to resamples of sample results. Only resampled data is displayed.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 2 - SVOCs
May 2018

		SAMPLE ID:	TP-1A_COMP			TP-1B_COMP			TP-3_COMP			TP-4_COMP			TP-5A_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815546-05			L1815546-09			L1815546-12			L1815546-15			L1815546-18		
		COLLECTION DATE:	5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
SEMIVOLATILE ORGANICS BY GC/MS																	
Acenaphthene	83-32-9	98	ND		0.019	ND		0.02	0.026	J	0.019	ND		0.019	0.038	J	0.018
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.021	ND		0.022	ND		0.021	ND		0.021	ND		0.02
Hexachlorobenzene	118-74-1	1.2	ND		0.02	ND		0.021	ND		0.021	ND		0.021	ND		0.02
Bis(2-chloroethyl)ether	111-44-4	NA	ND		0.025	ND		0.026	ND		0.025	ND		0.025	ND		0.024
2-Chloronaphthalene	91-58-7	NA	ND		0.018	ND		0.019	ND		0.018	ND		0.019	ND		0.018
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.033	ND		0.034	ND		0.033	ND		0.034	ND		0.032
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.031	ND		0.032	ND		0.032	ND		0.032	ND		0.031
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.032	ND		0.033	ND		0.032	ND		0.033	ND		0.031
3,3'-Dichlorobenzidine	91-94-1	NA	ND		0.049	ND		0.05	ND		0.049	ND		0.05	ND		0.047
2,4-Dinitrotoluene	121-14-2	NA	ND		0.036	ND		0.038	ND		0.037	ND		0.038	ND		0.036
2,6-Dinitrotoluene	606-20-2	NA	ND		0.031	ND		0.032	ND		0.032	ND		0.032	ND		0.03
Fluoranthene	206-44-0	100	0.028	J	0.021	0.17		0.022	0.54		0.021	0.26		0.022	0.44		0.02
4-Chlorophenyl phenyl ether	7005-72-3	NA	ND		0.02	ND		0.02	ND		0.02	ND		0.02	ND		0.019
4-Bromophenyl phenyl ether	101-55-3	NA	ND		0.028	ND		0.029	ND		0.028	ND		0.029	ND		0.027
Bis(2-chloroisopropyl)ether	108-60-1	NA	ND		0.031	ND		0.032	ND		0.032	ND		0.032	ND		0.03
Bis(2-chloroethoxy)methane	111-91-1	NA	ND		0.018	ND		0.019	ND		0.018	ND		0.019	ND		0.018
Hexachlorobutadiene	87-68-3	NA	ND		0.027	ND		0.028	ND		0.027	ND		0.027	ND		0.026
Hexachlorocyclopentadiene	77-47-4	NA	ND		0.16	ND		0.17	ND		0.17	ND		0.17	ND		0.16
Hexachloroethane	67-72-1	NA	ND		0.03	ND		0.03	ND		0.03	ND		0.03	ND		0.029
Isophorone	78-59-1	NA	ND		0.024	ND		0.024	ND		0.024	ND		0.024	ND		0.023
Naphthalene	91-20-3	12	ND		0.022	ND		0.023	ND		0.022	ND		0.023	0.047	J	0.022
Nitrobenzene	98-95-3	NA	ND		0.027	ND		0.028	ND		0.027	ND		0.028	ND		0.026
NDPA/DPA	86-30-6	NA	ND		0.021	ND		0.021	ND		0.021	ND		0.021	ND		0.02
n-Nitrosodi-n-propylamine	621-64-7	NA	ND		0.028	ND		0.029	ND		0.029	ND		0.029	ND		0.028
Bis(2-ethylhexyl)phthalate	117-81-7	NA	ND		0.063	ND		0.065	ND		0.064	ND		0.065	ND		0.062
Butyl benzyl phthalate	85-68-7	NA	ND		0.046	ND		0.048	ND		0.047	0.05	J	0.047	0.049	J	0.045
Di-n-butylphthalate	84-74-2	NA	ND		0.035	ND		0.036	ND		0.035	ND		0.036	ND		0.034
Di-n-octylphthalate	117-84-0	NA	ND		0.062	ND		0.064	ND		0.063	ND		0.064	ND		0.06
Diethyl phthalate	84-66-2	NA	ND		0.017	ND		0.017	ND		0.017	ND		0.017	ND		0.016
Dimethyl phthalate	131-11-3	NA	ND		0.038	ND		0.04	ND		0.039	ND		0.039	ND		0.037
Benzo(a)anthracene	56-55-3	1	ND		0.02	0.082	J	0.021	0.29		0.021	0.12		0.021	0.24		0.02
Benzo(a)pyrene	50-32-8	1	ND		0.045	0.068	J	0.046	0.24		0.045	0.12	J	0.046	0.23		0.043
Benzo(b)fluoranthene	205-99-2	1	ND		0.031	0.1	J	0.032	0.33		0.031	0.16		0.032	0.33		0.03
Benzo(k)fluoranthene	207-08-9	1.7	ND		0.029	ND		0.03	0.11		0.03	0.054	J	0.03	0.097	J	0.028
Chrysene	218-01-9	1	ND		0.019	0.08	J	0.02	0.31		0.019	0.12		0.02	0.23		0.018
Acenaphthylene	208-96-8	100	ND		0.028	ND		0.029	0.086	J	0.029	ND		0.029	0.034	J	0.028
Anthracene	120-12-7	100	ND		0.036	ND		0.037	0.098	J	0.036	ND		0.036	0.077	J	0.035
Benzo(ghi)perylene	191-24-2	100	ND		0.021	0.045	J	0.022	0.16		0.022	0.088	J	0.022	0.17		0.021
Fluorene	86-73-7	100	ND		0.018	ND		0.018	0.037	J	0.018	ND		0.018	0.03	J	0.017
Phenanthrene	85-01-8	100	ND		0.022	0.11		0.023	0.36		0.022	0.17		0.023	0.26		0.022
Dibenzo(a,h)anthracene	53-70-3	0.33	ND		0.021	ND		0.022	0.039	J	0.021	0.022	J	0.022	0.039	J	0.02
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	ND		0.025	0.047	J	0.026	0.17		0.026	0.086	J	0.026	0.16		0.025

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 2 - SVOCs
May 2018

		SAMPLE ID:	TP-1A_COMP			TP-1B_COMP			TP-3_COMP			TP-4_COMP			TP-5A_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815546-05			L1815546-09			L1815546-12			L1815546-15			L1815546-18		
		COLLECTION DATE:	5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
SEMIVOLATILE ORGANICS BY GC/MS																	
Pyrene	129-00-0	100	0.028	J	0.018	0.15		0.019	0.51		0.018	0.23		0.019	0.42		0.018
Biphenyl	92-52-4	NA	ND		0.042	ND		0.044	ND		0.043	ND		0.044	ND		0.041
4-Chloroaniline	106-47-8	NA	ND		0.033	ND		0.034	ND		0.034	ND		0.034	ND		0.032
2-Nitroaniline	88-74-4	NA	ND		0.035	ND		0.036	ND		0.036	ND		0.036	ND		0.034
3-Nitroaniline	99-09-2	NA	ND		0.034	ND		0.036	ND		0.035	ND		0.035	ND		0.034
4-Nitroaniline	100-01-6	NA	ND		0.076	ND		0.078	ND		0.077	ND		0.078	ND		0.074
Dibenzofuran	132-64-9	59	ND		0.017	ND		0.018	0.026	J	0.018	ND		0.018	0.02	J	0.017
2-Methylnaphthalene	91-57-6	NA	ND		0.022	ND		0.023	ND		0.022	ND		0.023	ND		0.022
1,2,4,5-Tetrachlorobenzene	95-94-3	NA	ND		0.019	ND		0.02	ND		0.019	ND		0.02	ND		0.018
Acetophenone	98-86-2	NA	ND		0.023	ND		0.023	ND		0.023	ND		0.023	ND		0.022
2,4,6-Trichlorophenol	88-06-2	NA	ND		0.035	ND		0.036	ND		0.035	ND		0.036	ND		0.034
p-Chloro-m-cresol	59-50-7	NA	ND		0.027	ND		0.028	ND		0.028	ND		0.028	ND		0.026
2-Chlorophenol	95-57-8	NA	ND		0.022	ND		0.022	ND		0.022	ND		0.022	ND		0.021
2,4-Dichlorophenol	120-83-2	NA	ND		0.029	ND		0.03	ND		0.03	ND		0.03	ND		0.029
2,4-Dimethylphenol	105-67-9	NA	ND		0.06	ND		0.062	ND		0.061	ND		0.062	ND		0.059
2-Nitrophenol	88-75-5	NA	ND		0.069	ND		0.071	ND		0.07	ND		0.07	ND		0.067
4-Nitrophenol	100-02-7	NA	ND		0.074	ND		0.077	ND		0.076	ND		0.076	ND		0.073
2,4-Dinitrophenol	51-28-5	NA	ND		0.085	ND		0.088	ND		0.086	ND		0.087	ND		0.083
4,6-Dinitro-o-cresol	534-52-1	NA	ND		0.088	ND		0.091	ND		0.089	ND		0.09	ND		0.085
Pentachlorophenol	87-86-5	0.8	ND		0.04	ND		0.042	ND		0.041	ND		0.041	ND		0.039
Phenol	108-95-2	0.33	ND		0.028	ND		0.028	ND		0.028	ND		0.028	ND		0.027
2-Methylphenol	95-48-7	0.33	ND		0.028	ND		0.029	ND		0.029	ND		0.029	ND		0.028
3-Methylphenol/4-Methylphenol	108-39-4	0.33	ND		0.029	ND		0.03	ND		0.029	ND		0.029	ND		0.028
2,4,5-Trichlorophenol	95-95-4	NA	ND		0.035	ND		0.036	ND		0.036	ND		0.036	ND		0.034
Benzoic Acid	65-85-0	NA	ND		0.18	ND		0.19	ND		0.19	ND		0.19	ND		0.18
Benzyl Alcohol	100-51-6	NA	ND		0.056	ND		0.058	ND		0.057	ND		0.057	ND		0.054
Carbazole	86-74-8	NA	ND		0.018	ND		0.018	0.031	J	0.018	0.022	J	0.018	0.039	J	0.017
Total SVOCs			0.056	-	-	0.852	-	-	3.363	-	-	1.502	-	-	2.95	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.
2. R1 Lab IDs correspond to resamples of sample results. Only resampled data is displayed.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 2 - SVOCs
May 2018

		SAMPLE ID:	TP-5B_COMP			TP-6_COMP			TP-8_COMP			TP-9A_COMP			TP-9B_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815546-21			L1815546-24			L1815546-27			L1815546-30			L1815546-33		
		COLLECTION DATE:	5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
SEMIVOLATILE ORGANICS BY GC/MS																	
Acenaphthene	83-32-9	98	0.024	J	0.019	0.058	J	0.02	ND		0.019	ND		0.019	ND		0.02
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.021	ND		0.022	ND		0.021	ND		0.021	ND		0.022
Hexachlorobenzene	118-74-1	1.2	ND		0.021	ND		0.021	ND		0.021	ND		0.02	ND		0.022
Bis(2-chloroethyl)ether	111-44-4	NA	ND		0.025	ND		0.026	ND		0.025	ND		0.025	ND		0.027
2-Chloronaphthalene	91-58-7	NA	ND		0.018	ND		0.019	ND		0.018	ND		0.018	ND		0.019
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.033	ND		0.034	ND		0.033	ND		0.033	ND		0.035
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.032	ND		0.032	ND		0.032	ND		0.031	ND		0.034
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.032	ND		0.033	ND		0.032	ND		0.032	ND		0.034
3,3'-Dichlorobenzidine	91-94-1	NA	ND		0.049	ND		0.05	ND		0.049	ND		0.048	ND		0.052
2,4-Dinitrotoluene	121-14-2	NA	ND		0.037	ND		0.038	ND		0.037	ND		0.036	ND		0.039
2,6-Dinitrotoluene	606-20-2	NA	ND		0.032	ND		0.032	ND		0.032	ND		0.031	ND		0.034
Fluoranthene	206-44-0	100	0.67		0.021	0.69		0.022	0.098	J	0.021	ND		0.021	0.042	J	0.022
4-Chlorophenyl phenyl ether	7005-72-3	NA	ND		0.02	ND		0.02	ND		0.02	ND		0.019	ND		0.021
4-Bromophenyl phenyl ether	101-55-3	NA	ND		0.028	ND		0.029	ND		0.028	ND		0.028	ND		0.03
Bis(2-chloroisopropyl)ether	108-60-1	NA	ND		0.032	ND		0.032	ND		0.032	ND		0.031	ND		0.034
Bis(2-chloroethoxy)methane	111-91-1	NA	ND		0.018	ND		0.019	ND		0.018	ND		0.018	ND		0.02
Hexachlorobutadiene	87-68-3	NA	ND		0.027	ND		0.028	ND		0.027	ND		0.027	ND		0.029
Hexachlorocyclopentadiene	77-47-4	NA	ND		0.17	ND		0.17	ND		0.17	ND		0.16	ND		0.18
Hexachloroethane	67-72-1	NA	ND		0.03	ND		0.03	ND		0.03	ND		0.029	ND		0.032
Isophorone	78-59-1	NA	ND		0.024	ND		0.024	ND		0.024	ND		0.024	ND		0.025
Naphthalene	91-20-3	12	0.03	J	0.022	0.033	J	0.023	ND		0.022	ND		0.022	ND		0.024
Nitrobenzene	98-95-3	NA	ND		0.027	ND		0.028	ND		0.027	ND		0.027	ND		0.029
NDPA/DPA	86-30-6	NA	ND		0.021	ND		0.021	ND		0.021	ND		0.021	ND		0.022
n-Nitrosodi-n-propylamine	621-64-7	NA	ND		0.028	ND		0.029	ND		0.028	ND		0.028	ND		0.03
Bis(2-ethylhexyl)phthalate	117-81-7	NA	ND		0.064	ND		0.065	ND		0.064	ND		0.063	ND		0.068
Butyl benzyl phthalate	85-68-7	NA	ND		0.046	ND		0.048	ND		0.046	ND		0.046	ND		0.049
Di-n-butylphthalate	84-74-2	NA	ND		0.035	ND		0.036	ND		0.035	ND		0.034	ND		0.037
Di-n-octylphthalate	117-84-0	NA	ND		0.063	ND		0.064	ND		0.063	ND		0.062	ND		0.067
Diethyl phthalate	84-66-2	NA	ND		0.017	ND		0.017	ND		0.017	ND		0.017	ND		0.018
Dimethyl phthalate	131-11-3	NA	ND		0.039	ND		0.04	ND		0.039	ND		0.038	ND		0.041
Benzo(a)anthracene	56-55-3	1	0.45		0.021	0.29		0.021	0.047	J	0.021	ND		0.02	0.022	J	0.022
Benzo(a)pyrene	50-32-8	1	0.47		0.045	0.28		0.046	ND		0.045	ND		0.044	ND		0.048
Benzo(b)fluoranthene	205-99-2	1	0.56		0.031	0.35		0.032	0.054	J	0.031	ND		0.031	ND		0.033
Benzo(k)fluoranthene	207-08-9	1.7	0.22		0.03	0.11		0.03	ND		0.03	ND		0.029	ND		0.031
Chrysene	218-01-9	1	0.43		0.019	0.3		0.02	0.045	J	0.019	ND		0.019	0.02	J	0.02
Acenaphthylene	208-96-8	100	0.2		0.028	0.034	J	0.029	ND		0.028	ND		0.028	ND		0.03
Anthracene	120-12-7	100	0.14		0.036	0.12		0.037	ND		0.036	ND		0.036	ND		0.038
Benzo(ghi)perylene	191-24-2	100	0.3		0.022	0.18		0.022	0.028	J	0.022	ND		0.021	ND		0.023
Fluorene	86-73-7	100	0.041	J	0.018	0.053	J	0.018	ND		0.018	ND		0.018	ND		0.019
Phenanthrene	85-01-8	100	0.37		0.022	0.54		0.023	0.072	J	0.022	ND		0.022	0.024	J	0.024
Dibenzo(a,h)anthracene	53-70-3	0.33	0.072	J	0.021	0.038	J	0.022	ND		0.021	ND		0.021	ND		0.023
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.31		0.026	0.18		0.026	0.028	J	0.026	ND		0.025	ND		0.027

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 2 - SVOCs
May 2018

		SAMPLE ID:	TP-5B_COMP			TP-6_COMP			TP-8_COMP			TP-9A_COMP			TP-9B_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815546-21			L1815546-24			L1815546-27			L1815546-30			L1815546-33		
		COLLECTION DATE:	5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
SEMIVOLATILE ORGANICS BY GC/MS																	
Pyrene	129-00-0	100	0.64		0.018	0.64		0.019	0.088	J	0.018	ND		0.018	0.036	J	0.02
Biphenyl	92-52-4	NA	ND		0.043	ND		0.044	ND		0.043	ND		0.042	ND		0.046
4-Chloroaniline	106-47-8	NA	ND		0.034	ND		0.034	ND		0.034	ND		0.033	ND		0.036
2-Nitroaniline	88-74-4	NA	ND		0.036	ND		0.036	ND		0.036	ND		0.035	ND		0.038
3-Nitroaniline	99-09-2	NA	ND		0.035	ND		0.036	ND		0.035	ND		0.034	ND		0.037
4-Nitroaniline	100-01-6	NA	ND		0.076	ND		0.078	ND		0.076	ND		0.075	ND		0.081
Dibenzofuran	132-64-9	59	0.018	J	0.017	0.04	J	0.018	ND		0.017	ND		0.017	ND		0.018
2-Methylnaphthalene	91-57-6	NA	ND		0.022	ND		0.023	ND		0.022	ND		0.022	ND		0.024
1,2,4,5-Tetrachlorobenzene	95-94-3	NA	ND		0.019	ND		0.02	ND		0.019	ND		0.019	ND		0.02
Acetophenone	98-86-2	NA	ND		0.023	ND		0.023	ND		0.023	ND		0.022	ND		0.024
2,4,6-Trichlorophenol	88-06-2	NA	ND		0.035	ND		0.036	ND		0.035	ND		0.034	ND		0.037
p-Chloro-m-cresol	59-50-7	NA	ND		0.028	ND		0.028	ND		0.028	ND		0.027	ND		0.029
2-Chlorophenol	95-57-8	NA	ND		0.022	ND		0.022	ND		0.022	ND		0.022	ND		0.023
2,4-Dichlorophenol	120-83-2	NA	ND		0.03	ND		0.03	ND		0.03	ND		0.029	ND		0.032
2,4-Dimethylphenol	105-67-9	NA	ND		0.061	ND		0.062	ND		0.061	ND		0.06	ND		0.065
2-Nitrophenol	88-75-5	NA	ND		0.069	ND		0.071	ND		0.069	ND		0.068	ND		0.074
4-Nitrophenol	100-02-7	NA	ND		0.075	ND		0.077	ND		0.075	ND		0.074	ND		0.08
2,4-Dinitrophenol	51-28-5	NA	ND		0.086	ND		0.088	ND		0.086	ND		0.085	ND		0.091
4,6-Dinitro-o-cresol	534-52-1	NA	ND		0.089	ND		0.09	ND		0.089	ND		0.087	ND		0.094
Pentachlorophenol	87-86-5	0.8	ND		0.041	ND		0.042	ND		0.041	ND		0.04	ND		0.043
Phenol	108-95-2	0.33	ND		0.028	ND		0.028	ND		0.028	ND		0.027	ND		0.03
2-Methylphenol	95-48-7	0.33	ND		0.029	ND		0.029	ND		0.029	ND		0.028	ND		0.03
3-Methylphenol/4-Methylphenol	108-39-4	0.33	ND		0.029	ND		0.03	ND		0.029	ND		0.028	ND		0.031
2,4,5-Trichlorophenol	95-95-4	NA	ND		0.035	ND		0.036	ND		0.035	ND		0.035	ND		0.038
Benzoic Acid	65-85-0	NA	ND		0.19	ND		0.19	ND		0.19	ND		0.18	ND		0.2
Benzyl Alcohol	100-51-6	NA	ND		0.056	ND		0.058	ND		0.056	ND		0.056	ND		0.06
Carbazole	86-74-8	NA	0.049	J	0.018	0.05	J	0.018	ND		0.018	ND		0.018	ND		0.019
Total SVOCs			4.994	-	-	3.986	-	-	0.46	-	-	-	-	-	0.144	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.
2. R1 Lab IDs correspond to resamples of sample results. Only resampled data is displayed.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 2 - SVOCs
May 2018

		SAMPLE ID:	TP-10A_COMP			TP-10B_COMP			TP-11A_COMP			TP-11B_COMP			TP-13A_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815546-36			L1815546-39			L1815750-03			L1815750-06			L1815750-09		
		COLLECTION DATE:	5/1/2018			5/1/2018			5/2/2018			5/2/2018			5/2/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
SEMIVOLATILE ORGANICS BY GC/MS			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	83-32-9	98															
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.019	ND		0.019	ND		0.019	0.16		0.019	ND		0.02
Hexachlorobenzene	118-74-1	1.2	ND		0.021	ND		0.021	ND		0.021	ND		0.021	ND		0.022
Bis(2-chloroethyl)ether	111-44-4	NA	ND		0.02	ND		0.021	ND		0.02	ND		0.02	ND		0.021
2-Chloronaphthalene	91-58-7	NA	ND		0.025	ND		0.025	ND		0.025	ND		0.024	ND		0.026
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.018	ND		0.018	ND		0.018	ND		0.018	ND		0.019
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.033	ND		0.033	ND		0.033	ND		0.032	ND		0.034
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.031	ND		0.032	ND		0.031	ND		0.031	ND		0.033
3,3'-Dichlorobenzidine	91-94-1	NA	ND		0.032	ND		0.032	ND		0.032	ND		0.032	ND		0.033
2,4-Dinitrotoluene	121-14-2	NA	ND		0.049	ND		0.05	ND		0.048	ND		0.048	ND		0.05
2,6-Dinitrotoluene	606-20-2	NA	ND		0.036	ND		0.037	ND		0.036	ND		0.036	ND		0.038
Fluoranthene	206-44-0	100	ND		0.031	ND		0.032	ND		0.031	ND		0.031	ND		0.032
4-Chlorophenyl phenyl ether	7005-72-3	NA	0.06	J	0.021	0.051	J	0.021	0.088	J	0.021	1.6		0.021	0.1	J	0.022
4-Bromophenyl phenyl ether	101-55-3	NA	ND		0.02	ND		0.02	ND		0.02	ND		0.019	ND		0.02
Bis(2-chloroisopropyl)ether	108-60-1	NA	ND		0.028	ND		0.028	ND		0.028	ND		0.028	ND		0.029
Bis(2-chloroethoxy)methane	111-91-1	NA	ND		0.031	ND		0.032	ND		0.031	ND		0.031	ND		0.032
Hexachlorobutadiene	87-68-3	NA	ND		0.018	ND		0.019	ND		0.018	ND		0.018	ND		0.019
Hexachlorocyclopentadiene	77-47-4	NA	ND		0.027	ND		0.027	ND		0.027	ND		0.026	ND		0.028
Hexachloroethane	67-72-1	NA	ND		0.16	ND		0.17	ND		0.16	ND		0.16	ND		0.17
Isophorone	78-59-1	NA	ND		0.03	ND		0.03	ND		0.03	ND		0.029	ND		0.031
Naphthalene	91-20-3	12	ND		0.024	ND		0.024	ND		0.024	ND		0.023	ND		0.025
Nitrobenzene	98-95-3	NA	ND		0.022	ND		0.023	ND		0.022	0.079	J	0.022	ND		0.023
NDPA/DPA	86-30-6	NA	ND		0.027	ND		0.028	ND		0.027	ND		0.027	ND		0.028
n-Nitrosodi-n-propylamine	621-64-7	NA	ND		0.021	ND		0.021	ND		0.021	ND		0.02	ND		0.022
Bis(2-ethylhexyl)phthalate	117-81-7	NA	ND		0.028	ND		0.029	ND		0.028	ND		0.028	ND		0.029
Butyl benzyl phthalate	85-68-7	NA	ND		0.063	ND		0.064	ND		0.063	ND		0.062	ND		0.066
Di-n-butylphthalate	84-74-2	NA	ND		0.046	ND		0.047	ND		0.046	ND		0.045	ND		0.048
Di-n-octylphthalate	117-84-0	NA	ND		0.035	ND		0.035	ND		0.034	ND		0.034	ND		0.036
Diethyl phthalate	84-66-2	NA	ND		0.062	ND		0.063	ND		0.062	ND		0.061	ND		0.064
Dimethyl phthalate	131-11-3	NA	ND		0.017	ND		0.017	ND		0.017	ND		0.017	ND		0.018
Benzo(a)anthracene	56-55-3	1	ND		0.038	ND		0.039	ND		0.038	ND		0.038	ND		0.04
Benzo(a)pyrene	50-32-8	1	0.032	J	0.02	0.028	J	0.021	0.045	J	0.02	0.78		0.02	0.052	J	0.021
Benzo(b)fluoranthene	205-99-2	1	ND		0.045	ND		0.045	0.044	J	0.044	0.68		0.044	ND		0.046
Benzo(k)fluoranthene	207-08-9	1.7	0.036	J	0.031	0.032	J	0.031	0.058	J	0.031	0.88		0.03	0.056	J	0.032
Chrysene	218-01-9	1	ND		0.029	ND		0.03	ND		0.029	0.3		0.029	ND		0.03
Acenaphthylene	208-96-8	100	0.031	J	0.019	0.023	J	0.019	0.047	J	0.019	0.73		0.019	0.044	J	0.02
Anthracene	120-12-7	100	ND		0.028	ND		0.029	ND		0.028	ND		0.028	ND		0.029
Benzo(ghi)perylene	191-24-2	100	ND		0.036	ND		0.036	ND		0.036	0.41		0.035	ND		0.037
Fluorene	86-73-7	100	ND		0.022	ND		0.022	0.031	J	0.021	0.44		0.021	0.029	J	0.022
Phenanthrene	85-01-8	100	ND		0.018	ND		0.018	ND		0.018	0.16	J	0.018	ND		0.018
Dibenzo(a,h)anthracene	53-70-3	0.33	0.043	J	0.022	0.04	J	0.023	0.058	J	0.022	1.4		0.022	0.078	J	0.023
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	ND		0.021	ND		0.022	ND		0.021	0.1	J	0.021	ND		0.022

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 2 - SVOCs
May 2018

		SAMPLE ID:	TP-10A_COMP			TP-10B_COMP			TP-11A_COMP			TP-11B_COMP			TP-13A_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815546-36			L1815546-39			L1815750-03			L1815750-06			L1815750-09		
		COLLECTION DATE:	5/1/2018			5/1/2018			5/2/2018			5/2/2018			5/2/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
SEMIVOLATILE ORGANICS BY GC/MS			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	129-00-0	100	ND		0.025	ND		0.026	0.031	J	0.025	0.46		0.025	0.029	J	0.026
Biphenyl	92-52-4	NA	0.055	J	0.018	0.048	J	0.018	0.088	J	0.018	1.4		0.018	0.092	J	0.019
4-Chloroaniline	106-47-8	NA	ND		0.042	ND		0.043	ND		0.042	ND		0.042	ND		0.044
2-Nitroaniline	88-74-4	NA	ND		0.033	ND		0.034	ND		0.033	ND		0.033	ND		0.034
3-Nitroaniline	99-09-2	NA	ND		0.035	ND		0.036	ND		0.035	ND		0.035	ND		0.037
4-Nitroaniline	100-01-6	NA	ND		0.034	ND		0.035	ND		0.034	ND		0.034	ND		0.036
Dibenzofuran	132-64-9	59	ND		0.076	ND		0.077	ND		0.076	ND		0.075	ND		0.079
2-Methylnaphthalene	91-57-6	NA	ND		0.017	ND		0.018	ND		0.017	0.098	J	0.017	ND		0.018
1,2,4,5-Tetrachlorobenzene	95-94-3	NA	ND		0.022	ND		0.022	ND		0.022	0.03	J	0.022	ND		0.023
Acetophenone	98-86-2	NA	ND		0.019	ND		0.019	ND		0.019	ND		0.019	ND		0.02
2,4,6-Trichlorophenol	88-06-2	NA	ND		0.023	ND		0.023	ND		0.022	ND		0.022	ND		0.024
p-Chloro-m-cresol	59-50-7	NA	ND		0.035	ND		0.035	ND		0.034	ND		0.034	ND		0.036
2-Chlorophenol	95-57-8	NA	ND		0.027	ND		0.028	ND		0.027	ND		0.027	ND		0.028
2,4-Dichlorophenol	120-83-2	NA	ND		0.022	ND		0.022	ND		0.022	ND		0.021	ND		0.022
2,4-Dimethylphenol	105-67-9	NA	ND		0.029	ND		0.03	ND		0.029	ND		0.029	ND		0.03
2-Nitrophenol	88-75-5	NA	ND		0.06	ND		0.062	ND		0.06	ND		0.06	ND		0.063
4-Nitrophenol	100-02-7	NA	ND		0.069	ND		0.07	ND		0.068	ND		0.068	ND		0.071
2,4-Dinitrophenol	51-28-5	NA	ND		0.074	ND		0.076	ND		0.074	ND		0.074	ND		0.077
4,6-Dinitro-o-cresol	534-52-1	NA	ND		0.085	ND		0.087	ND		0.085	ND		0.084	ND		0.088
Pentachlorophenol	87-86-5	0.8	ND		0.088	ND		0.089	ND		0.088	ND		0.087	ND		0.091
Phenol	108-95-2	0.33	ND		0.04	ND		0.041	ND		0.04	ND		0.04	ND		0.042
2-Methylphenol	95-48-7	0.33	ND		0.028	ND		0.028	ND		0.028	ND		0.027	ND		0.029
3-Methylphenol/4-Methylphenol	108-39-4	0.33	ND		0.028	ND		0.029	ND		0.028	ND		0.028	ND		0.029
2,4,5-Trichlorophenol	95-95-4	NA	ND		0.029	ND		0.029	ND		0.028	ND		0.028	ND		0.03
Benzoic Acid	65-85-0	NA	ND		0.035	ND		0.036	ND		0.035	ND		0.034	ND		0.036
Benzyl Alcohol	100-51-6	NA	ND		0.18	ND		0.19	ND		0.18	ND		0.18	ND		0.19
Carbazole	86-74-8	NA	ND		0.056	ND		0.057	ND		0.056	ND		0.055	ND		0.058
Total SVOCs			ND		0.018	ND		0.018	ND		0.018	0.18		0.018	ND		0.018

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.
2. R1 Lab IDs correspond to resamples of sample results. Only resampled data is displayed.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 2 - SVOCs
May 2018

		SAMPLE ID:	TP-13B_COMP			TP-15A_COMP			TP-15B_COMP			TP-16_COMP			TP-17A_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815750-12			L1815750-15			L1815750-18			L1815750-21			L1815750-24		
		COLLECTION DATE:	5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
SEMIVOLATILE ORGANICS BY GC/MS			-	-	-	-	-	-									
Acenaphthene	83-32-9	98							ND		0.019	0.02	J	0.018	0.074	J	0.02
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.019	ND		0.019	ND		0.021	ND		0.02	ND		0.022
Hexachlorobenzene	118-74-1	1.2	ND		0.021	ND		0.021	ND		0.02	ND		0.02	ND		0.021
Bis(2-chloroethyl)ether	111-44-4	NA	ND		0.02	ND		0.021	ND		0.025	ND		0.024	ND		0.026
2-Chloronaphthalene	91-58-7	NA	ND		0.025	ND		0.025	ND		0.018	ND		0.018	ND		0.019
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.018	ND		0.018	ND		0.033	ND		0.032	ND		0.034
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.033	ND		0.033	ND		0.031	ND		0.03	ND		0.032
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.032	ND		0.032	ND		0.032	ND		0.031	ND		0.033
3,3'-Dichlorobenzidine	91-94-1	NA	ND		0.032	ND		0.032	ND		0.049	ND		0.047	ND		0.05
2,4-Dinitrotoluene	121-14-2	NA	ND		0.049	ND		0.049	ND		0.037	ND		0.036	ND		0.038
2,6-Dinitrotoluene	606-20-2	NA	ND		0.037	ND		0.037	ND		0.031	ND		0.03	ND		0.032
Fluoranthene	206-44-0	100	ND		0.031	ND		0.032	0.035	J	0.021	0.35		0.02	0.19		0.022
4-Chlorophenyl phenyl ether	7005-72-3	NA	0.1	J	0.021	0.095	J	0.021	ND		0.02	ND		0.019	ND		0.02
4-Bromophenyl phenyl ether	101-55-3	NA	ND		0.02	ND		0.02	ND		0.028	ND		0.027	ND		0.029
Bis(2-chloroisopropyl)ether	108-60-1	NA	ND		0.028	ND		0.028	ND		0.031	ND		0.03	ND		0.032
Bis(2-chloroethoxy)methane	111-91-1	NA	ND		0.031	ND		0.031	ND		0.018	ND		0.018	ND		0.019
Hexachlorobutadiene	87-68-3	NA	ND		0.018	ND		0.018	ND		0.027	ND		0.026	ND		0.028
Hexachlorocyclopentadiene	77-47-4	NA	ND		0.027	ND		0.027	ND		0.16	ND		0.16	ND		0.17
Hexachloroethane	67-72-1	NA	ND		0.16	ND		0.17	ND		0.03	ND		0.029	ND		0.03
Isophorone	78-59-1	NA	ND		0.03	ND		0.03	ND		0.024	ND		0.023	ND		0.024
Naphthalene	91-20-3	12	ND		0.024	ND		0.024	ND		0.022	ND		0.022	0.029	J	0.023
Nitrobenzene	98-95-3	NA	ND		0.022	ND		0.022	ND		0.027	ND		0.026	ND		0.028
NDPA/DPA	86-30-6	NA	ND		0.027	ND		0.027	ND		0.021	ND		0.02	ND		0.021
n-Nitrosodi-n-propylamine	621-64-7	NA	ND		0.021	ND		0.021	ND		0.028	ND		0.027	ND		0.029
Bis(2-ethylhexyl)phthalate	117-81-7	NA	ND		0.028	ND		0.028	ND		0.063	ND		0.062	ND		0.065
Butyl benzyl phthalate	85-68-7	NA	ND		0.063	ND		0.064	ND		0.046	ND		0.045	ND		0.048
Di-n-butylphthalate	84-74-2	NA	ND		0.046	ND		0.046	ND		0.035	ND		0.034	ND		0.036
Di-n-octylphthalate	117-84-0	NA	ND		0.035	ND		0.035	ND		0.062	ND		0.06	ND		0.064
Diethyl phthalate	84-66-2	NA	ND		0.062	ND		0.063	ND		0.017	ND		0.016	ND		0.017
Dimethyl phthalate	131-11-3	NA	ND		0.017	ND		0.017	ND		0.038	ND		0.037	ND		0.04
Benzo(a)anthracene	56-55-3	1	ND		0.038	ND		0.039	0.026	J	0.021	0.18		0.02	0.056	J	0.021
Benzo(a)pyrene	50-32-8	1	0.049	J	0.021	0.052	J	0.021	ND		0.045	0.17		0.043	ND		0.046
Benzo(b)fluoranthene	205-99-2	1	ND		0.045	ND		0.045	0.031	J	0.031	0.21		0.03	0.07	J	0.032
Benzo(k)fluoranthene	207-08-9	1.7	0.054	J	0.031	0.059	J	0.031	ND		0.029	0.073	J	0.028	ND		0.03
Chrysene	218-01-9	1	ND		0.029	ND		0.029	0.021	J	0.019	0.18		0.018	0.063	J	0.02
Acenaphthylene	208-96-8	100	0.048	J	0.019	0.05	J	0.019	ND		0.028	ND		0.027	ND		0.029
Anthracene	120-12-7	100	ND		0.028	ND		0.028	ND		0.036	0.06	J	0.035	ND		0.037
Benzo(ghi)perylene	191-24-2	100	ND		0.036	ND		0.036	ND		0.022	0.1	J	0.021	0.024	J	0.022
Fluorene	86-73-7	100	0.025	J	0.022	0.028	J	0.022	ND		0.018	0.018	J	0.017	0.034	J	0.018
Phenanthrene	85-01-8	100	ND		0.018	ND		0.018	0.023	J	0.022	0.24		0.022	0.39		0.023
Dibenzo(a,h)anthracene	53-70-3	0.33	0.079	J	0.022	0.072	J	0.022	ND		0.021	0.029	J	0.02	ND		0.022
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	ND		0.021	ND		0.021	ND		0.026	0.11	J	0.025	0.026	J	0.026

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 2 - SVOCs
May 2018

		SAMPLE ID:	TP-13B_COMP			TP-15A_COMP			TP-15B_COMP			TP-16_COMP			TP-17A_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815750-12			L1815750-15			L1815750-18			L1815750-21			L1815750-24		
		COLLECTION DATE:	5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
SEMIVOLATILE ORGANICS BY GC/MS			-	-	-	-	-	-									
Pyrene	129-00-0	100	0.027	J	0.026	0.028	J	0.026	0.036	J	0.018	0.34		0.018	0.14		0.019
Biphenyl	92-52-4	NA	0.092	J	0.018	0.09	J	0.018	ND		0.042	ND		0.041	ND		0.044
4-Chloroaniline	106-47-8	NA	ND		0.042	ND		0.043	ND		0.033	ND		0.032	ND		0.034
2-Nitroaniline	88-74-4	NA	ND		0.033	ND		0.034	ND		0.035	ND		0.034	ND		0.036
3-Nitroaniline	99-09-2	NA	ND		0.035	ND		0.036	ND		0.034	ND		0.034	ND		0.036
4-Nitroaniline	100-01-6	NA	ND		0.034	ND		0.035	ND		0.076	ND		0.074	ND		0.078
Dibenzofuran	132-64-9	59	ND		0.076	ND		0.076	ND		0.017	ND		0.017	0.061	J	0.018
2-Methylnaphthalene	91-57-6	NA	ND		0.017	ND		0.017	ND		0.022	ND		0.021	ND		0.023
1,2,4,5-Tetrachlorobenzene	95-94-3	NA	ND		0.022	ND		0.022	ND		0.019	ND		0.018	ND		0.02
Acetophenone	98-86-2	NA	ND		0.019	ND		0.019	ND		0.023	ND		0.022	ND		0.023
2,4,6-Trichlorophenol	88-06-2	NA	ND		0.023	ND		0.023	ND		0.035	ND		0.034	ND		0.036
p-Chloro-m-cresol	59-50-7	NA	ND		0.035	ND		0.035	ND		0.027	ND		0.026	ND		0.028
2-Chlorophenol	95-57-8	NA	ND		0.027	ND		0.027	ND		0.022	ND		0.021	ND		0.022
2,4-Dichlorophenol	120-83-2	NA	ND		0.022	ND		0.022	ND		0.029	ND		0.029	ND		0.03
2,4-Dimethylphenol	105-67-9	NA	ND		0.029	ND		0.03	ND		0.06	ND		0.059	ND		0.062
2-Nitrophenol	88-75-5	NA	ND		0.06	ND		0.061	ND		0.069	ND		0.067	ND		0.071
4-Nitrophenol	100-02-7	NA	ND		0.069	ND		0.069	ND		0.075	ND		0.072	ND		0.077
2,4-Dinitrophenol	51-28-5	NA	ND		0.075	ND		0.075	ND		0.085	ND		0.083	ND		0.088
4,6-Dinitro-o-cresol	534-52-1	NA	ND		0.085	ND		0.086	ND		0.088	ND		0.085	ND		0.09
Pentachlorophenol	87-86-5	0.8	ND		0.088	ND		0.088	ND		0.04	ND		0.039	ND		0.042
Phenol	108-95-2	0.33	ND		0.04	ND		0.04	ND		0.028	ND		0.027	0.05	J	0.028
2-Methylphenol	95-48-7	0.33	ND		0.028	ND		0.028	ND		0.028	ND		0.028	ND		0.029
3-Methylphenol/4-Methylphenol	108-39-4	0.33	ND		0.028	ND		0.028	ND		0.029	ND		0.028	ND		0.03
2,4,5-Trichlorophenol	95-95-4	NA	ND		0.029	ND		0.029	ND		0.035	ND		0.034	ND		0.036
Benzoic Acid	65-85-0	NA	ND		0.035	ND		0.035	ND		0.18	ND		0.18	ND		0.19
Benzyl Alcohol	100-51-6	NA	ND		0.18	ND		0.19	ND		0.056	ND		0.054	ND		0.058
Carbazole	86-74-8	NA	ND		0.056	ND		0.056	ND		0.018	0.025	J	0.017	0.023	J	0.018
Total SVOCs			ND		0.018	ND		0.018	0.172	-	-	2.105	-	-	1.23	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.
2. R1 Lab IDs correspond to resamples of sample results. Only resampled data is displayed.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 2 - SVOCs
May 2018

		SAMPLE ID:	TP-17B_COMP			TP-18A_COMP			TP-18B_COMP			TP-19A_COMP			TP-19B_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815750-27			L1815750-30			L1815750-33			L1815750-36			L1815750-39		
		COLLECTION DATE:	5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
SEMIVOLATILE ORGANICS BY GC/MS																	
Acenaphthene	83-32-9	98	0.16		0.019	ND		0.019	0.035	J	0.019	0.051	J	0.019	ND		0.019
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.021	ND		0.021	ND		0.021	ND		0.021	ND		0.021
Hexachlorobenzene	118-74-1	1.2	ND		0.021	ND		0.02	ND		0.021	ND		0.02	ND		0.021
Bis(2-chloroethyl)ether	111-44-4	NA	ND		0.025	ND		0.025	ND		0.025	ND		0.025	ND		0.025
2-Chloronaphthalene	91-58-7	NA	ND		0.018	ND		0.018	ND		0.018	ND		0.018	ND		0.018
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.033	ND		0.032	ND		0.033	ND		0.033	ND		0.034
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.032	ND		0.031	ND		0.032	ND		0.031	ND		0.032
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.032	ND		0.032	ND		0.032	ND		0.032	ND		0.032
3,3'-Dichlorobenzidine	91-94-1	NA	ND		0.049	ND		0.048	ND		0.05	ND		0.048	ND		0.05
2,4-Dinitrotoluene	121-14-2	NA	ND		0.037	ND		0.036	ND		0.037	ND		0.036	ND		0.037
2,6-Dinitrotoluene	606-20-2	NA	ND		0.032	ND		0.031	ND		0.032	ND		0.031	ND		0.032
Fluoranthene	206-44-0	100	0.39		0.021	0.066	J	0.021	0.47		0.021	0.57		0.021	0.052	J	0.021
4-Chlorophenyl phenyl ether	7005-72-3	NA	ND		0.02	ND		0.019	ND		0.02	ND		0.02	ND		0.02
4-Bromophenyl phenyl ether	101-55-3	NA	ND		0.028	ND		0.028	ND		0.028	ND		0.028	ND		0.028
Bis(2-chloroisopropyl)ether	108-60-1	NA	ND		0.032	ND		0.031	ND		0.032	ND		0.031	ND		0.032
Bis(2-chloroethoxy)methane	111-91-1	NA	ND		0.019	ND		0.018	ND		0.019	ND		0.018	ND		0.019
Hexachlorobutadiene	87-68-3	NA	ND		0.027	ND		0.026	ND		0.027	ND		0.027	ND		0.027
Hexachlorocyclopentadiene	77-47-4	NA	ND		0.17	ND		0.16	ND		0.17	ND		0.16	ND		0.17
Hexachloroethane	67-72-1	NA	ND		0.03	ND		0.029	ND		0.03	ND		0.03	ND		0.03
Isophorone	78-59-1	NA	ND		0.024	ND		0.024	ND		0.024	ND		0.024	ND		0.024
Naphthalene	91-20-3	12	0.13	J	0.023	ND		0.022	0.03	J	0.023	0.023	J	0.022	ND		0.023
Nitrobenzene	98-95-3	NA	ND		0.027	ND		0.027	ND		0.028	ND		0.027	ND		0.028
NDPA/DPA	86-30-6	NA	ND		0.021	ND		0.021	ND		0.021	ND		0.021	ND		0.021
n-Nitrosodi-n-propylamine	621-64-7	NA	ND		0.029	ND		0.028	ND		0.029	ND		0.028	ND		0.029
Bis(2-ethylhexyl)phthalate	117-81-7	NA	ND		0.064	ND		0.063	ND		0.064	ND		0.063	ND		0.064
Butyl benzyl phthalate	85-68-7	NA	ND		0.047	ND		0.046	ND		0.047	ND		0.046	ND		0.047
Di-n-butylphthalate	84-74-2	NA	ND		0.035	ND		0.034	ND		0.035	ND		0.034	ND		0.035
Di-n-octylphthalate	117-84-0	NA	ND		0.063	ND		0.062	ND		0.063	ND		0.062	ND		0.063
Diethyl phthalate	84-66-2	NA	ND		0.017	ND		0.017	ND		0.017	ND		0.017	ND		0.017
Dimethyl phthalate	131-11-3	NA	ND		0.039	ND		0.038	ND		0.039	ND		0.038	ND		0.039
Benzo(a)anthracene	56-55-3	1	0.084	J	0.021	0.035	J	0.02	0.23		0.021	0.23		0.02	0.027	J	0.021
Benzo(a)pyrene	50-32-8	1	0.052	J	0.045	ND		0.044	0.19		0.045	0.19		0.044	ND		0.046
Benzo(b)fluoranthene	205-99-2	1	0.089	J	0.031	0.038	J	0.03	0.24		0.031	0.24		0.031	ND		0.031
Benzo(k)fluoranthene	207-08-9	1.7	ND		0.03	ND		0.029	0.084	J	0.03	0.072	J	0.029	ND		0.03
Chrysene	218-01-9	1	0.09	J	0.019	0.036	J	0.019	0.22		0.019	0.23		0.019	0.028	J	0.019
Acenaphthylene	208-96-8	100	ND		0.029	ND		0.028	0.031	J	0.029	ND		0.028	ND		0.029
Anthracene	120-12-7	100	0.07	J	0.036	ND		0.035	0.092	J	0.036	0.14		0.036	ND		0.036
Benzo(ghi)perylene	191-24-2	100	0.036	J	0.022	ND		0.021	0.11	J	0.022	0.11	J	0.021	ND		0.022
Fluorene	86-73-7	100	0.099	J	0.018	ND		0.018	0.038	J	0.018	0.044	J	0.018	ND		0.018
Phenanthrene	85-01-8	100	0.71		0.022	0.044	J	0.022	0.36		0.023	0.54		0.022	0.04	J	0.023
Dibenzo(a,h)anthracene	53-70-3	0.33	ND		0.021	ND		0.021	0.03	J	0.022	0.028	J	0.021	ND		0.022
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.039	J	0.026	ND		0.025	0.12	J	0.026	0.12	J	0.025	ND		0.026

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 2 - SVOCs
May 2018

		SAMPLE ID:	TP-17B_COMP			TP-18A_COMP			TP-18B_COMP			TP-19A_COMP			TP-19B_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815750-27			L1815750-30			L1815750-33			L1815750-36			L1815750-39		
		COLLECTION DATE:	5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
SEMIVOLATILE ORGANICS BY GC/MS																	
Pyrene	129-00-0	100	0.27		0.018	0.062	J	0.018	0.44		0.018	0.5		0.018	0.048	J	0.018
Biphenyl	92-52-4	NA	ND		0.043	ND		0.042	ND		0.043	ND		0.042	ND		0.043
4-Chloroaniline	106-47-8	NA	ND		0.034	ND		0.033	ND		0.034	ND		0.033	ND		0.034
2-Nitroaniline	88-74-4	NA	ND		0.036	ND		0.035	ND		0.036	ND		0.035	ND		0.036
3-Nitroaniline	99-09-2	NA	ND		0.035	ND		0.034	ND		0.035	ND		0.034	ND		0.035
4-Nitroaniline	100-01-6	NA	ND		0.077	ND		0.075	ND		0.077	ND		0.075	ND		0.077
Dibenzofuran	132-64-9	59	0.14	J	0.018	ND		0.017	0.028	J	0.018	0.034	J	0.017	ND		0.018
2-Methylnaphthalene	91-57-6	NA	0.053	J	0.022	ND		0.022	ND		0.022	ND		0.022	ND		0.022
1,2,4,5-Tetrachlorobenzene	95-94-3	NA	ND		0.019	ND		0.019	ND		0.019	ND		0.019	ND		0.019
Acetophenone	98-86-2	NA	ND		0.023	ND		0.022	ND		0.023	ND		0.022	ND		0.023
2,4,6-Trichlorophenol	88-06-2	NA	ND		0.035	ND		0.034	ND		0.035	ND		0.034	ND		0.035
p-Chloro-m-cresol	59-50-7	NA	ND		0.028	ND		0.027	ND		0.028	ND		0.027	ND		0.028
2-Chlorophenol	95-57-8	NA	ND		0.022	ND		0.021	ND		0.022	ND		0.022	ND		0.022
2,4-Dichlorophenol	120-83-2	NA	ND		0.03	ND		0.029	ND		0.03	ND		0.029	ND		0.03
2,4-Dimethylphenol	105-67-9	NA	ND		0.061	ND		0.06	ND		0.061	ND		0.06	ND		0.062
2-Nitrophenol	88-75-5	NA	ND		0.07	ND		0.068	ND		0.07	ND		0.068	ND		0.07
4-Nitrophenol	100-02-7	NA	ND		0.076	ND		0.074	ND		0.076	ND		0.074	ND		0.076
2,4-Dinitrophenol	51-28-5	NA	ND		0.086	ND		0.084	ND		0.087	ND		0.085	ND		0.087
4,6-Dinitro-o-cresol	534-52-1	NA	ND		0.089	ND		0.087	ND		0.089	ND		0.088	ND		0.09
Pentachlorophenol	87-86-5	0.8	ND		0.041	ND		0.04	ND		0.041	ND		0.04	ND		0.041
Phenol	108-95-2	0.33	ND		0.028	ND		0.027	ND		0.028	ND		0.028	ND		0.028
2-Methylphenol	95-48-7	0.33	ND		0.029	ND		0.028	ND		0.029	ND		0.028	ND		0.029
3-Methylphenol/4-Methylphenol	108-39-4	0.33	ND		0.029	ND		0.028	ND		0.029	ND		0.028	ND		0.029
2,4,5-Trichlorophenol	95-95-4	NA	ND		0.036	ND		0.035	ND		0.036	ND		0.035	ND		0.036
Benzoic Acid	65-85-0	NA	ND		0.19	ND		0.18	ND		0.19	ND		0.18	ND		0.19
Benzyl Alcohol	100-51-6	NA	ND		0.057	ND		0.056	ND		0.057	ND		0.056	ND		0.057
Carbazole	86-74-8	NA	0.066	J	0.018	ND		0.018	0.035	J	0.018	0.044	J	0.018	ND		0.018
Total SVOCs			2.478	-	-	0.281	-	-	2.783	-	-	3.166	-	-	0.195	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.
2. R1 Lab IDs correspond to resamples of sample results. Only resampled data is displayed.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 2 - SVOCs
May 2018

		SAMPLE ID:	TP-21_COMP			TPX-_050218-C			TP-23_COMP			TP-24_COMP			TP-25_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815750-42			L1815750-44			L1815928-03			L1815928-06			L1815928-09		
		COLLECTION DATE:	5/2/2018			5/2/2018			5/3/2018			5/3/2018			5/3/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
SEMIVOLATILE ORGANICS BY GC/MS																	
Acenaphthene	83-32-9	98	ND		0.019	ND		0.019	ND		0.018	0.043	J	0.018	ND		0.019
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.021	ND		0.021	ND		0.02	ND		0.02	ND		0.021
Hexachlorobenzene	118-74-1	1.2	ND		0.02	ND		0.02	ND		0.02	ND		0.02	ND		0.021
Bis(2-chloroethyl)ether	111-44-4	NA	ND		0.025	ND		0.024	ND		0.024	ND		0.024	ND		0.025
2-Chloronaphthalene	91-58-7	NA	ND		0.018	ND		0.018	ND		0.017	ND		0.018	ND		0.018
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.033	ND		0.032	ND		0.032	ND		0.032	ND		0.033
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.031	ND		0.031	ND		0.03	ND		0.03	ND		0.032
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.032	ND		0.032	ND		0.031	ND		0.031	ND		0.032
3,3'-Dichlorobenzidine	91-94-1	NA	ND		0.048	ND		0.048	ND		0.047	ND		0.047	ND		0.049
2,4-Dinitrotoluene	121-14-2	NA	ND		0.036	ND		0.036	ND		0.035	ND		0.036	ND		0.037
2,6-Dinitrotoluene	606-20-2	NA	ND		0.031	ND		0.031	ND		0.03	ND		0.03	ND		0.032
Fluoranthene	206-44-0	100	0.095	J	0.021	0.48		0.021	0.2		0.02	0.59		0.02	0.21		0.021
4-Chlorophenyl phenyl ether	7005-72-3	NA	ND		0.019	ND		0.019	ND		0.019	ND		0.019	ND		0.02
4-Bromophenyl phenyl ether	101-55-3	NA	ND		0.028	ND		0.028	ND		0.027	ND		0.027	ND		0.028
Bis(2-chloroisopropyl)ether	108-60-1	NA	ND		0.031	ND		0.031	ND		0.03	ND		0.03	ND		0.032
Bis(2-chloroethoxy)methane	111-91-1	NA	ND		0.018	ND		0.018	ND		0.018	ND		0.018	ND		0.019
Hexachlorobutadiene	87-68-3	NA	ND		0.027	ND		0.026	ND		0.026	ND		0.026	ND		0.027
Hexachlorocyclopentadiene	77-47-4	NA	ND		0.16	ND		0.16	ND		0.16	ND		0.16	ND		0.17
Hexachloroethane	67-72-1	NA	ND		0.029	ND		0.029	ND		0.028	ND		0.029	ND		0.03
Isophorone	78-59-1	NA	ND		0.024	ND		0.024	ND		0.023	ND		0.023	ND		0.024
Naphthalene	91-20-3	12	ND		0.022	ND		0.022	ND		0.021	0.042	J	0.022	ND		0.023
Nitrobenzene	98-95-3	NA	ND		0.027	ND		0.027	ND		0.026	ND		0.026	ND		0.028
NDPA/DPA	86-30-6	NA	ND		0.021	ND		0.021	ND		0.02	ND		0.02	ND		0.021
n-Nitrosodi-n-propylamine	621-64-7	NA	ND		0.028	ND		0.028	ND		0.027	ND		0.027	ND		0.029
Bis(2-ethylhexyl)phthalate	117-81-7	NA	ND		0.063	ND		0.063	ND		0.061	ND		0.061	ND		0.064
Butyl benzyl phthalate	85-68-7	NA	ND		0.046	ND		0.046	ND		0.044	ND		0.045	ND		0.047
Di-n-butylphthalate	84-74-2	NA	ND		0.034	ND		0.034	ND		0.033	ND		0.034	ND		0.035
Di-n-octylphthalate	117-84-0	NA	ND		0.062	ND		0.062	ND		0.06	ND		0.06	ND		0.063
Diethyl phthalate	84-66-2	NA	ND		0.017	ND		0.017	ND		0.016	ND		0.016	ND		0.017
Dimethyl phthalate	131-11-3	NA	ND		0.038	ND		0.038	ND		0.037	ND		0.037	ND		0.039
Benzo(a)anthracene	56-55-3	1	0.054	J	0.02	0.16		0.02	0.11		0.02	0.27		0.02	0.097	J	0.021
Benzo(a)pyrene	50-32-8	1	0.048	J	0.044	0.14		0.044	0.11	J	0.043	0.25		0.043	0.089	J	0.045
Benzo(b)fluoranthene	205-99-2	1	0.065	J	0.031	0.2		0.03	0.15		0.03	0.31		0.03	0.11		0.031
Benzo(k)fluoranthene	207-08-9	1.7	ND		0.029	0.066	J	0.029	0.044	J	0.028	0.12		0.028	0.039	J	0.03
Chrysene	218-01-9	1	0.05	J	0.019	0.15		0.019	0.11		0.018	0.25		0.018	0.098	J	0.019
Acenaphthylene	208-96-8	100	ND		0.028	0.046	J	0.028	ND		0.027	0.043	J	0.027	ND		0.029
Anthracene	120-12-7	100	ND		0.036	0.064	J	0.035	ND		0.034	0.11		0.035	0.043	J	0.036
Benzo(ghi)perylene	191-24-2	100	0.032	J	0.021	0.1	J	0.021	0.075	J	0.021	0.14		0.021	0.058	J	0.022
Fluorene	86-73-7	100	ND		0.018	0.05	J	0.018	ND		0.017	0.05	J	0.017	0.022	J	0.018
Phenanthrene	85-01-8	100	0.05	J	0.022	0.48		0.022	0.099	J	0.021	0.45		0.022	0.17		0.023
Dibenzo(a,h)anthracene	53-70-3	0.33	ND		0.021	0.023	J	0.021	ND		0.02	0.036	J	0.02	ND		0.021
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.034	J	0.025	0.11	J	0.025	0.08	J	0.024	0.15		0.025	0.057	J	0.026

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 2 - SVOCs
May 2018

		SAMPLE ID:	TP-21_COMP			TPX-_050218-C			TP-23_COMP			TP-24_COMP			TP-25_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815750-42			L1815750-44			L1815928-03			L1815928-06			L1815928-09		
		COLLECTION DATE:	5/2/2018			5/2/2018			5/3/2018			5/3/2018			5/3/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
SEMIVOLATILE ORGANICS BY GC/MS																	
Pyrene	129-00-0	100	0.095	J	0.018	0.35		0.018	0.2		0.017	0.53		0.018	0.18		0.018
Biphenyl	92-52-4	NA	ND		0.042	ND		0.042	ND		0.041	ND		0.041	ND		0.043
4-Chloroaniline	106-47-8	NA	ND		0.033	ND		0.033	ND		0.032	ND		0.032	ND		0.034
2-Nitroaniline	88-74-4	NA	ND		0.035	ND		0.035	ND		0.034	ND		0.034	ND		0.036
3-Nitroaniline	99-09-2	NA	ND		0.034	ND		0.034	ND		0.033	ND		0.033	ND		0.035
4-Nitroaniline	100-01-6	NA	ND		0.075	ND		0.075	ND		0.073	ND		0.074	ND		0.077
Dibenzofuran	132-64-9	59	ND		0.017	0.04	J	0.017	ND		0.017	0.036	J	0.017	ND		0.018
2-Methylnaphthalene	91-57-6	NA	ND		0.022	ND		0.022	ND		0.021	ND		0.021	ND		0.022
1,2,4,5-Tetrachlorobenzene	95-94-3	NA	ND		0.019	ND		0.019	ND		0.018	ND		0.018	ND		0.019
Acetophenone	98-86-2	NA	ND		0.022	ND		0.022	ND		0.022	ND		0.022	ND		0.023
2,4,6-Trichlorophenol	88-06-2	NA	ND		0.034	ND		0.034	ND		0.033	ND		0.034	ND		0.035
p-Chloro-m-cresol	59-50-7	NA	ND		0.027	ND		0.027	ND		0.026	ND		0.026	ND		0.028
2-Chlorophenol	95-57-8	NA	ND		0.022	ND		0.021	ND		0.021	ND		0.021	ND		0.022
2,4-Dichlorophenol	120-83-2	NA	ND		0.029	ND		0.029	ND		0.028	ND		0.028	ND		0.03
2,4-Dimethylphenol	105-67-9	NA	ND		0.06	ND		0.06	ND		0.058	ND		0.058	ND		0.061
2-Nitrophenol	88-75-5	NA	ND		0.068	ND		0.068	ND		0.066	ND		0.067	ND		0.07
4-Nitrophenol	100-02-7	NA	ND		0.074	ND		0.074	ND		0.072	ND		0.072	ND		0.076
2,4-Dinitrophenol	51-28-5	NA	ND		0.085	ND		0.084	ND		0.082	ND		0.083	ND		0.087
4,6-Dinitro-o-cresol	534-52-1	NA	ND		0.087	ND		0.087	ND		0.084	ND		0.085	ND		0.089
Pentachlorophenol	87-86-5	0.8	ND		0.04	ND		0.04	ND		0.039	ND		0.039	ND		0.041
Phenol	108-95-2	0.33	ND		0.028	ND		0.027	ND		0.026	ND		0.027	ND		0.028
2-Methylphenol	95-48-7	0.33	ND		0.028	ND		0.028	ND		0.027	ND		0.028	ND		0.029
3-Methylphenol/4-Methylphenol	108-39-4	0.33	ND		0.028	ND		0.028	ND		0.028	ND		0.028	ND		0.029
2,4,5-Trichlorophenol	95-95-4	NA	ND		0.035	ND		0.035	ND		0.034	ND		0.034	ND		0.036
Benzoic Acid	65-85-0	NA	ND		0.18	ND		0.18	ND		0.18	ND		0.18	ND		0.19
Benzyl Alcohol	100-51-6	NA	ND		0.056	ND		0.055	ND		0.054	ND		0.054	ND		0.057
Carbazole	86-74-8	NA	ND		0.018	0.049	J	0.018	ND		0.017	0.05	J	0.017	0.021	J	0.018
Total SVOCs			0.523	-	-	2.508	-	-	1.178	-	-	3.47	-	-	1.194	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.
2. R1 Lab IDs correspond to resamples of sample results. Only resampled data is displayed.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 2 - SVOCs
May 2018

		SAMPLE ID:	TP-26_COMP			TP-27_COMP			TP-29_COMP			TP-30_COMP			TP-31_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815928-12			L1815928-15			L1815928-18			L1816155-03			L1816155-06		
		COLLECTION DATE:	5/3/2018			5/3/2018			5/3/2018			5/4/2018			5/4/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
SEMIVOLATILE ORGANICS BY GC/MS																	
Acenaphthene	83-32-9	98	ND		0.019	ND		0.018	0.02	J	0.019	ND		0.019	0.1	J	0.019
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.021	ND		0.02	ND		0.021	ND		0.021	ND		0.021
Hexachlorobenzene	118-74-1	1.2	ND		0.02	ND		0.02	ND		0.021	ND		0.02	ND		0.02
Bis(2-chloroethyl)ether	111-44-4	NA	ND		0.024	ND		0.024	ND		0.025	ND		0.025	ND		0.024
2-Chloronaphthalene	91-58-7	NA	ND		0.018	ND		0.018	ND		0.018	ND		0.018	ND		0.018
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.032	ND		0.032	ND		0.033	ND		0.033	ND		0.032
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.031	ND		0.031	ND		0.032	ND		0.032	ND		0.031
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.031	ND		0.031	ND		0.032	ND		0.032	ND		0.032
3,3'-Dichlorobenzidine	91-94-1	NA	ND		0.048	ND		0.048	ND		0.049	ND		0.049	ND		0.048
2,4-Dinitrotoluene	121-14-2	NA	ND		0.036	ND		0.036	ND		0.037	ND		0.037	ND		0.036
2,6-Dinitrotoluene	606-20-2	NA	ND		0.031	ND		0.031	ND		0.032	ND		0.031	ND		0.031
Fluoranthene	206-44-0	100	0.18		0.021	0.38		0.02	0.41		0.021	0.11		0.021	0.92		0.021
4-Chlorophenyl phenyl ether	7005-72-3	NA	ND		0.019	ND		0.019	ND		0.02	ND		0.02	ND		0.019
4-Bromophenyl phenyl ether	101-55-3	NA	ND		0.028	ND		0.027	ND		0.028	ND		0.028	ND		0.028
Bis(2-chloroisopropyl)ether	108-60-1	NA	ND		0.031	ND		0.03	ND		0.032	ND		0.031	ND		0.031
Bis(2-chloroethoxy)methane	111-91-1	NA	ND		0.018	ND		0.018	ND		0.018	ND		0.018	ND		0.018
Hexachlorobutadiene	87-68-3	NA	ND		0.026	ND		0.026	ND		0.027	ND		0.027	ND		0.026
Hexachlorocyclopentadiene	77-47-4	NA	ND		0.16	ND		0.16	ND		0.17	ND		0.17	ND		0.16
Hexachloroethane	67-72-1	NA	ND		0.029	ND		0.029	ND		0.03	ND		0.03	ND		0.029
Isophorone	78-59-1	NA	ND		0.023	ND		0.023	ND		0.024	ND		0.024	ND		0.024
Naphthalene	91-20-3	12	ND		0.022	0.027	J	0.022	ND		0.023	ND		0.022	0.043	J	0.022
Nitrobenzene	98-95-3	NA	ND		0.027	ND		0.026	ND		0.027	ND		0.027	ND		0.027
NDPA/DPA	86-30-6	NA	ND		0.02	ND		0.02	ND		0.021	ND		0.021	ND		0.021
n-Nitrosodi-n-propylamine	621-64-7	NA	ND		0.028	ND		0.028	ND		0.029	ND		0.028	ND		0.028
Bis(2-ethylhexyl)phthalate	117-81-7	NA	ND		0.062	ND		0.062	0.091	J	0.064	0.19		0.063	0.12	J	0.063
Butyl benzyl phthalate	85-68-7	NA	ND		0.045	ND		0.045	ND		0.047	ND		0.046	ND		0.046
Di-n-butylphthalate	84-74-2	NA	ND		0.034	ND		0.034	ND		0.035	ND		0.035	ND		0.034
Di-n-octylphthalate	117-84-0	NA	ND		0.061	ND		0.061	ND		0.063	ND		0.062	ND		0.062
Diethyl phthalate	84-66-2	NA	ND		0.017	ND		0.016	ND		0.017	ND		0.017	ND		0.017
Dimethyl phthalate	131-11-3	NA	ND		0.038	ND		0.038	ND		0.039	ND		0.038	ND		0.038
Benzo(a)anthracene	56-55-3	1	0.086	J	0.02	0.17		0.02	0.21		0.021	0.067	J	0.021	0.51		0.02
Benzo(a)pyrene	50-32-8	1	0.072	J	0.044	0.14		0.044	0.19		0.045	0.054	J	0.045	0.42		0.044
Benzo(b)fluoranthene	205-99-2	1	0.093	J	0.03	0.21		0.03	0.24		0.031	0.073	J	0.031	0.58		0.03
Benzo(k)fluoranthene	207-08-9	1.7	0.033	J	0.029	0.064	J	0.028	0.085	J	0.03	ND		0.029	0.17		0.029
Chrysene	218-01-9	1	0.078	J	0.019	0.17		0.018	0.2		0.019	0.065	J	0.019	0.5		0.019
Acenaphthylene	208-96-8	100	ND		0.028	0.043	J	0.028	ND		0.029	ND		0.028	0.053	J	0.028
Anthracene	120-12-7	100	ND		0.035	0.063	J	0.035	0.06	J	0.036	ND		0.036	0.25		0.035
Benzo(ghi)perylene	191-24-2	100	0.044	J	0.021	0.1	J	0.021	0.11	J	0.022	0.036	J	0.022	0.24		0.021
Fluorene	86-73-7	100	ND		0.018	0.028	J	0.017	0.024	J	0.018	ND		0.018	0.11	J	0.018
Phenanthrene	85-01-8	100	0.14		0.022	0.22		0.022	0.21		0.022	0.059	J	0.022	0.84		0.022
Dibenzo(a,h)anthracene	53-70-3	0.33	ND		0.021	0.026	J	0.021	0.03	J	0.021	ND		0.021	0.068	J	0.021
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.046	J	0.025	0.11	J	0.025	0.12	J	0.026	0.037	J	0.026	0.26		0.025

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 2 - SVOCs
May 2018

		SAMPLE ID:	TP-26_COMP			TP-27_COMP			TP-29_COMP			TP-30_COMP			TP-31_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815928-12			L1815928-15			L1815928-18			L1816155-03			L1816155-06		
		COLLECTION DATE:	5/3/2018			5/3/2018			5/3/2018			5/4/2018			5/4/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
SEMIVOLATILE ORGANICS BY GC/MS																	
Pyrene	129-00-0	100	0.16		0.018	0.33		0.018	0.37		0.018	0.11		0.018	0.87		0.018
Biphenyl	92-52-4	NA	ND		0.042	ND		0.041	ND		0.043	ND		0.042	ND		0.042
4-Chloroaniline	106-47-8	NA	ND		0.033	ND		0.032	ND		0.034	ND		0.033	ND		0.033
2-Nitroaniline	88-74-4	NA	ND		0.035	ND		0.034	ND		0.036	ND		0.035	ND		0.035
3-Nitroaniline	99-09-2	NA	ND		0.034	ND		0.034	ND		0.035	ND		0.034	ND		0.034
4-Nitroaniline	100-01-6	NA	ND		0.075	ND		0.074	ND		0.077	ND		0.076	ND		0.075
Dibenzofuran	132-64-9	59	ND		0.017	ND		0.017	ND		0.018	ND		0.017	0.063	J	0.017
2-Methylnaphthalene	91-57-6	NA	ND		0.022	ND		0.022	ND		0.022	ND		0.022	0.058	J	0.022
1,2,4,5-Tetrachlorobenzene	95-94-3	NA	ND		0.019	ND		0.019	ND		0.019	ND		0.019	ND		0.019
Acetophenone	98-86-2	NA	ND		0.022	ND		0.022	ND		0.023	ND		0.023	ND		0.022
2,4,6-Trichlorophenol	88-06-2	NA	ND		0.034	ND		0.034	ND		0.035	ND		0.035	ND		0.034
p-Chloro-m-cresol	59-50-7	NA	ND		0.027	ND		0.027	ND		0.028	ND		0.027	ND		0.027
2-Chlorophenol	95-57-8	NA	ND		0.021	ND		0.021	ND		0.022	ND		0.022	ND		0.021
2,4-Dichlorophenol	120-83-2	NA	ND		0.029	ND		0.029	ND		0.03	ND		0.029	ND		0.029
2,4-Dimethylphenol	105-67-9	NA	ND		0.06	ND		0.059	ND		0.061	ND		0.06	ND		0.06
2-Nitrophenol	88-75-5	NA	ND		0.068	ND		0.067	ND		0.07	ND		0.069	ND		0.068
4-Nitrophenol	100-02-7	NA	ND		0.074	ND		0.073	ND		0.076	ND		0.075	ND		0.074
2,4-Dinitrophenol	51-28-5	NA	ND		0.084	ND		0.083	ND		0.086	ND		0.085	ND		0.084
4,6-Dinitro-o-cresol	534-52-1	NA	ND		0.086	ND		0.086	ND		0.089	ND		0.088	ND		0.087
Pentachlorophenol	87-86-5	0.8	ND		0.04	ND		0.039	ND		0.041	ND		0.04	ND		0.04
Phenol	108-95-2	0.33	ND		0.027	ND		0.027	ND		0.028	ND		0.028	0.078	J	0.027
2-Methylphenol	95-48-7	0.33	ND		0.028	ND		0.028	ND		0.029	ND		0.028	ND		0.028
3-Methylphenol/4-Methylphenol	108-39-4	0.33	ND		0.028	ND		0.028	ND		0.029	ND		0.029	ND		0.028
2,4,5-Trichlorophenol	95-95-4	NA	ND		0.034	ND		0.034	ND		0.036	ND		0.035	ND		0.035
Benzoic Acid	65-85-0	NA	ND		0.18	ND		0.18	ND		0.19	ND		0.18	ND		0.18
Benzyl Alcohol	100-51-6	NA	ND		0.055	ND		0.055	ND		0.057	ND		0.056	ND		0.055
Carbazole	86-74-8	NA	ND		0.018	0.028	J	0.017	0.025	J	0.018	ND		0.018	0.12	J	0.018
Total SVOCs			0.932	-	-	2.109	-	-	2.395	-	-	0.801	-	-	6.373	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.
2. R1 Lab IDs correspond to resamples of sample results. Only resampled data is displayed.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 2 - SVOCs
May 2018

		SAMPLE ID:	TP-32_COMP			TP-X-050415-C		
		DEPTH INTERVAL						
		LAB ID:	L1816155-09			L1816155-11		
		COLLECTION DATE:	5/4/2018			5/4/2018		
		SAMPLE MATRIX:	SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
SEMIVOLATILE ORGANICS BY GC/MS								
Acenaphthene	83-32-9	98	ND		0.018	0.055	J	0.019
1,2,4-Trichlorobenzene	120-82-1	NA	ND		0.02	ND		0.021
Hexachlorobenzene	118-74-1	1.2	ND		0.02	ND		0.02
Bis(2-chloroethyl)ether	111-44-4	NA	ND		0.024	ND		0.024
2-Chloronaphthalene	91-58-7	NA	ND		0.018	ND		0.018
1,2-Dichlorobenzene	95-50-1	1.1	ND		0.032	ND		0.032
1,3-Dichlorobenzene	541-73-1	2.4	ND		0.03	ND		0.031
1,4-Dichlorobenzene	106-46-7	1.8	ND		0.031	ND		0.032
3,3'-Dichlorobenzidine	91-94-1	NA	ND		0.047	ND		0.048
2,4-Dinitrotoluene	121-14-2	NA	ND		0.036	ND		0.036
2,6-Dinitrotoluene	606-20-2	NA	ND		0.03	ND		0.031
Fluoranthene	206-44-0	100	0.13		0.02	0.9		0.021
4-Chlorophenyl phenyl ether	7005-72-3	NA	ND		0.019	ND		0.019
4-Bromophenyl phenyl ether	101-55-3	NA	ND		0.027	ND		0.028
Bis(2-chloroisopropyl)ether	108-60-1	NA	ND		0.03	ND		0.031
Bis(2-chloroethoxy)methane	111-91-1	NA	ND		0.018	ND		0.018
Hexachlorobutadiene	87-68-3	NA	ND		0.026	ND		0.026
Hexachlorocyclopentadiene	77-47-4	NA	ND		0.16	ND		0.16
Hexachloroethane	67-72-1	NA	ND		0.029	ND		0.029
Isophorone	78-59-1	NA	ND		0.023	ND		0.023
Naphthalene	91-20-3	12	ND		0.022	0.037	J	0.022
Nitrobenzene	98-95-3	NA	ND		0.026	ND		0.027
NDPA/DPA	86-30-6	NA	ND		0.02	ND		0.02
n-Nitrosodi-n-propylamine	621-64-7	NA	ND		0.027	ND		0.028
Bis(2-ethylhexyl)phthalate	117-81-7	NA	0.078	J	0.061	0.12	J	0.062
Butyl benzyl phthalate	85-68-7	NA	0.084	J	0.045	ND		0.046
Di-n-butylphthalate	84-74-2	NA	ND		0.034	ND		0.034
Di-n-octylphthalate	117-84-0	NA	ND		0.06	ND		0.061
Diethyl phthalate	84-66-2	NA	ND		0.016	ND		0.017
Dimethyl phthalate	131-11-3	NA	ND		0.037	ND		0.038
Benzo(a)anthracene	56-55-3	1	0.067	J	0.02	0.45		0.02
Benzo(a)pyrene	50-32-8	1	0.049	J	0.043	0.42		0.044
Benzo(b)fluoranthene	205-99-2	1	0.069	J	0.03	0.57		0.03
Benzo(k)fluoranthene	207-08-9	1.7	ND		0.028	0.16		0.029
Chrysene	218-01-9	1	0.058	J	0.018	0.48		0.019
Acenaphthylene	208-96-8	100	ND		0.027	0.078	J	0.028
Anthracene	120-12-7	100	ND		0.035	0.17		0.035
Benzo(ghi)perylene	191-24-2	100	0.028	J	0.021	0.27		0.021
Fluorene	86-73-7	100	ND		0.017	0.097	J	0.018
Phenanthrene	85-01-8	100	0.049	J	0.022	0.66		0.022
Dibenzo(a,h)anthracene	53-70-3	0.33	ND		0.02	0.072	J	0.021
Indeno(1,2,3-cd)pyrene	193-39-5	0.5	0.028	J	0.025	0.28		0.025

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 2 - SVOCs
May 2018

		SAMPLE ID:	TP-32_COMP			TP-X-050415-C		
		DEPTH INTERVAL						
		LAB ID:	L1816155-09			L1816155-11		
		COLLECTION DATE:	5/4/2018			5/4/2018		
		SAMPLE MATRIX:	SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
SEMIVOLATILE ORGANICS BY GC/MS								
Pyrene	129-00-0	100	0.12		0.018	0.84		0.018
Biphenyl	92-52-4	NA	ND		0.041	ND		0.042
4-Chloroaniline	106-47-8	NA	ND		0.032	ND		0.033
2-Nitroaniline	88-74-4	NA	ND		0.034	ND		0.035
3-Nitroaniline	99-09-2	NA	ND		0.034	ND		0.034
4-Nitroaniline	100-01-6	NA	ND		0.074	ND		0.075
Dibenzofuran	132-64-9	59	ND		0.017	0.034	J	0.017
2-Methylnaphthalene	91-57-6	NA	ND		0.021	0.059	J	0.022
1,2,4,5-Tetrachlorobenzene	95-94-3	NA	ND		0.018	ND		0.019
Acetophenone	98-86-2	NA	ND		0.022	ND		0.022
2,4,6-Trichlorophenol	88-06-2	NA	ND		0.034	ND		0.034
p-Chloro-m-cresol	59-50-7	NA	ND		0.026	ND		0.027
2-Chlorophenol	95-57-8	NA	ND		0.021	ND		0.021
2,4-Dichlorophenol	120-83-2	NA	ND		0.028	ND		0.029
2,4-Dimethylphenol	105-67-9	NA	ND		0.059	ND		0.06
2-Nitrophenol	88-75-5	NA	ND		0.067	ND		0.068
4-Nitrophenol	100-02-7	NA	ND		0.072	ND		0.074
2,4-Dinitrophenol	51-28-5	NA	ND		0.083	ND		0.084
4,6-Dinitro-o-cresol	534-52-1	NA	ND		0.085	ND		0.087
Pentachlorophenol	87-86-5	0.8	ND		0.039	ND		0.04
Phenol	108-95-2	0.33	ND		0.027	0.071	J	0.027
2-Methylphenol	95-48-7	0.33	ND		0.028	ND		0.028
3-Methylphenol/4-Methylphenol	108-39-4	0.33	ND		0.028	ND		0.028
2,4,5-Trichlorophenol	95-95-4	NA	ND		0.034	ND		0.034
Benzoic Acid	65-85-0	NA	ND		0.18	ND		0.18
Benzyl Alcohol	100-51-6	NA	ND		0.054	ND		0.055
Carbazole	86-74-8	NA	ND		0.017	0.046	J	0.018
Total SVOCs			0.76	-	-	5.869	-	-

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.
2. R1 Lab IDs correspond to resamples of sample results. Only resampled data is displayed.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 3 - Metals
May 2018

		SAMPLE ID:	TP-2_COMP			TP-7A_COMP			TP-7B_COMP			TP-12_COMP			TP-14A_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815263-03			L1815263-06			L1815263-09			L1815263-12			L1815263-15		
		COLLECTION DATE:	4/30/2018			4/30/2018			4/30/2018			4/30/2018			4/30/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
TOTAL METALS																	
Aluminum, Total	7429-90-5	NA	19100		2.4	10800		2.41	21400		2.37	12700		2.48	14000		2.32
Antimony, Total	7440-36-0	NA	ND		0.338	ND		0.339	ND		0.333	ND		0.348	ND		0.327
Arsenic, Total	7440-38-2	16	1.18		0.185	3.29		0.186	1.12		0.182	0.568	J	0.191	1.1		0.179
Barium, Total	7440-39-3	400	202		0.155	123		0.155	208		0.153	150		0.16	152		0.15
Beryllium, Total	7440-41-7	47	0.392	J	0.029	0.286	J	0.03	0.491		0.029	0.229	J	0.03	0.301	J	0.028
Cadmium, Total	7440-43-9	4.3	0.419	J	0.087	0.384	J	0.088	0.404	J	0.086	0.321	J	0.09	0.378	J	0.084
Calcium, Total	7440-70-2	NA	4990		3.12	23000		3.12	2240		3.07	2620		3.21	2580		3.01
Chromium, Total	7440-47-3	NA	34.9		0.086	23.7		0.086	33.1		0.084	22		0.088	25.3		0.083
Cobalt, Total	7440-48-4	NA	17.2		0.148	9.96		0.148	17.3		0.146	13.8		0.152	14.8		0.143
Copper, Total	7440-50-8	270	47.4		0.23	27.1		0.23	49.5		0.226	25.2		0.236	27.9		0.222
Iron, Total	7439-89-6	NA	28700		0.804	18800		0.806	27600		0.792	23000		0.828	25600		0.776
Lead, Total	7439-92-1	400	8.67		0.239	39.6		0.239	10.5		0.235	4.69		0.246	16.3		0.23
Magnesium, Total	7439-95-4	NA	9950		1.37	5780		1.38	9000		1.35	6540		1.41	6990		1.32
Manganese, Total	7439-96-5	2000	324		0.142	256		0.142	270		0.139	186		0.146	264		0.137
Mercury, Total	7439-97-6	0.73	0.017	J	0.016	0.058	J	0.015	0.028	J	0.015	ND		0.015	0.067	J	0.015
Nickel, Total	7440-02-0	130	26.3		0.216	17.6		0.216	28		0.212	19.8		0.222	21.7		0.208
Potassium, Total	7440-09-7	NA	9830		12.8	5050		12.8	8160		12.6	7930		13.2	7730		12.4
Selenium, Total	7782-49-2	4	ND		0.23	0.518	J	0.23	0.395	J	0.226	ND		0.236	0.344	J	0.222
Silver, Total	7440-22-4	8.3	ND		0.252	ND		0.253	ND		0.248	ND		0.259	ND		0.243
Sodium, Total	7440-23-5	NA	247		2.81	322		2.81	199		2.76	141	J	2.89	157	J	2.71
Thallium, Total	7440-28-0	NA	ND		0.281	ND		0.281	ND		0.276	ND		0.289	ND		0.271
Vanadium, Total	7440-62-2	NA	59.3		0.181	31.9		0.181	56.3		0.178	36.1		0.186	41.4		0.174
Zinc, Total	7440-66-6	2480	70		0.261	74.2		0.262	69		0.257	57.7		0.269	66.6		0.252
Chromium, Trivalent	16065-83-1	180	35		0.95	24		0.9	33		0.9	22		0.92	25		0.89
Chromium, Hexavalent	18540-29-9	19	ND		0.19	ND		0.18	ND		0.179	ND		0.184	ND		0.178

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 3 - Metals
May 2018

		SAMPLE ID:	TP-14B_COMP			TP-20_COMP			TP-22_COMP			TP-28_COMP			TP-1A_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815263-18			L1815263-21			L1815263-24			L1815263-27			L1815546-05		
		COLLECTION DATE:	4/30/2018			4/30/2018			4/30/2018			4/30/2018			5/1/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
TOTAL METALS																	
Aluminum, Total	7429-90-5	NA	12300		2.4	11100		2.31	11600		2.27	11500		2.32	14500		2.35
Antimony, Total	7440-36-0	NA	ND		0.338	ND		0.325	ND		0.32	ND		0.326	ND		0.331
Arsenic, Total	7440-38-2	16	0.677	J	0.185	2.15		0.178	1.91		0.175	1.47		0.179	ND		0.181
Barium, Total	7440-39-3	400	136		0.155	108		0.149	107		0.146	131		0.149	170		0.151
Beryllium, Total	7440-41-7	47	0.285	J	0.029	0.299	J	0.028	0.278	J	0.028	0.223	J	0.028	0.183	J	0.029
Cadmium, Total	7440-43-9	4.3	0.33	J	0.087	0.274	J	0.084	0.278	J	0.082	0.292	J	0.084	ND		0.085
Calcium, Total	7440-70-2	NA	1620		3.12	1760		2.99	1880		2.94	2860		3.01	2680		3.04
Chromium, Total	7440-47-3	NA	20		0.086	26.8		0.082	19.6		0.081	20.3		0.082	26.9		0.084
Cobalt, Total	7440-48-4	NA	13.6		0.148	10		0.142	9.76		0.14	11.1		0.142	15.6		0.144
Copper, Total	7440-50-8	270	26.9		0.23	18.2		0.221	17.4		0.217	18		0.222	52.6		0.224
Iron, Total	7439-89-6	NA	22000		0.804	17600		0.772	18200		0.76	19100		0.776	22200		0.786
Lead, Total	7439-92-1	400	10.6		0.239	20.9		0.229	17.8		0.225	11.1		0.23	5.32		0.233
Magnesium, Total	7439-95-4	NA	5900		1.37	5800		1.32	5890		1.3	7070		1.32	6240		1.34
Manganese, Total	7439-96-5	2000	228		0.142	305		0.136	281		0.134	246		0.136	190		0.138
Mercury, Total	7439-97-6	0.73	0.046	J	0.016	0.072		0.014	0.073		0.014	0.048	J	0.015	ND		0.015
Nickel, Total	7440-02-0	130	19.2		0.216	17.6		0.207	13.4		0.204	14.6		0.208	26.2		0.21
Potassium, Total	7440-09-7	NA	6960		12.8	4990		12.3	4750		12.1	6140		12.4	8120		12.5
Selenium, Total	7782-49-2	4	ND		0.23	ND		0.221	ND		0.217	ND		0.222	0.696	J	0.224
Silver, Total	7440-22-4	8.3	ND		0.252	ND		0.242	ND		0.238	ND		0.243	ND		0.246
Sodium, Total	7440-23-5	NA	118	J	2.8	99.5	J	2.69	95.7	J	2.65	173		2.7	184		2.74
Thallium, Total	7440-28-0	NA	ND		0.28	ND		0.269	ND		0.265	ND		0.27	ND		0.274
Vanadium, Total	7440-62-2	NA	34.1		0.181	31.5		0.174	32.1		0.171	36.5		0.174	43.4		0.177
Zinc, Total	7440-66-6	2480	59.2		0.261	47.8		0.25	47.9		0.246	49.7		0.252	59.8		0.255
Chromium, Trivalent	16065-83-1	180	20		0.9	27		0.87	20		0.87	20		0.87	27		0.9
Chromium, Hexavalent	18540-29-9	19	ND		0.18	ND		0.174	ND		0.174	ND		0.175	ND		0.18

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
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J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 3 - Metals
May 2018

		SAMPLE ID:	TP-1B_COMP			TP-3_COMP			TP-4_COMP			TP-5A_COMP			TP-5B_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815546-09			L1815546-12			L1815546-15			L1815546-18			L1815546-21		
		COLLECTION DATE:	5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
TOTAL METALS																	
Aluminum, Total	7429-90-5	NA	16600		2.39	16600		2.36	14500		2.33	8910		2.33	15800		2.39
Antimony, Total	7440-36-0	NA	ND		0.337	ND		0.332	ND		0.328	ND		0.328	ND		0.337
Arsenic, Total	7440-38-2	16	1.16		0.184	0.472	J	0.182	0.648	J	0.18	1.14		0.18	2.19		0.184
Barium, Total	7440-39-3	400	148		0.154	176		0.152	128		0.15	114		0.15	164		0.154
Beryllium, Total	7440-41-7	47	0.31	J	0.029	0.218	J	0.029	0.224	J	0.029	0.112	J	0.029	0.275	J	0.029
Cadmium, Total	7440-43-9	4.3	ND		0.087	ND		0.086	ND		0.085	ND		0.085	ND		0.087
Calcium, Total	7440-70-2	NA	3710		3.1	2400		3.06	4050		3.02	18700		3.02	3400		3.1
Chromium, Total	7440-47-3	NA	30.5		0.085	32.6		0.084	26.2		0.083	17.6		0.083	33		0.085
Cobalt, Total	7440-48-4	NA	14.7		0.147	15.9		0.145	12.9		0.143	9.08		0.143	12.8		0.147
Copper, Total	7440-50-8	270	44.4		0.229	88.9		0.225	41.6		0.223	26.9		0.223	47		0.229
Iron, Total	7439-89-6	NA	23800		0.8	25400		0.789	22500		0.78	16400		0.78	20900		0.8
Lead, Total	7439-92-1	400	10.4		0.238	6		0.234	24.4		0.231	72.9		0.232	65.5		0.238
Magnesium, Total	7439-95-4	NA	6270		1.36	6930		1.34	5410		1.33	10900		1.33	5550		1.36
Manganese, Total	7439-96-5	2000	371		0.141	226		0.139	370		0.137	191		0.137	271		0.141
Mercury, Total	7439-97-6	0.73	0.038	J	0.015	0.026	J	0.015	0.03	J	0.015	0.061	J	0.015	0.181		0.015
Nickel, Total	7440-02-0	130	21.7		0.214	26		0.211	18.5		0.209	14.4		0.209	21.2		0.214
Potassium, Total	7440-09-7	NA	6420		12.8	8090		12.6	5520		12.4	4910		12.4	5180		12.8
Selenium, Total	7782-49-2	4	0.886	J	0.229	1.11	J	0.225	0.777	J	0.223	0.51	J	0.223	0.691	J	0.229
Silver, Total	7440-22-4	8.3	ND		0.251	ND		0.247	ND		0.244	ND		0.244	ND		0.251
Sodium, Total	7440-23-5	NA	210		2.79	211		2.75	131	J	2.72	126	J	2.72	183		2.79
Thallium, Total	7440-28-0	NA	ND		0.279	ND		0.275	ND		0.272	ND		0.272	ND		0.279
Vanadium, Total	7440-62-2	NA	48.5		0.18	52.6		0.177	41.8		0.175	25.7		0.175	45.1		0.18
Zinc, Total	7440-66-6	2480	58.4		0.26	58.6		0.256	67.2		0.253	63.6		0.253	89.5		0.26
Chromium, Trivalent	16065-83-1	180	30		0.91	33		0.91	26		0.92	18		0.88	33		0.91
Chromium, Hexavalent	18540-29-9	19	ND		0.182	ND		0.182	ND		0.183	ND		0.176	ND		0.183

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 3 - Metals
May 2018

		SAMPLE ID:	TP-6_COMP			TP-8_COMP			TP-9A_COMP			TP-9B_COMP			TP-10A_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815546-24			L1815546-27			L1815546-30			L1815546-33			L1815546-36		
		COLLECTION DATE:	5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
TOTAL METALS																	
Aluminum, Total	7429-90-5	NA	12100		2.4	16000		2.31	12400		2.3	14500		2.42	12200		2.32
Antimony, Total	7440-36-0	NA	ND		0.338	ND		0.325	ND		0.324	ND		0.34	ND		0.327
Arsenic, Total	7440-38-2	16	0.837	J	0.185	0.668	J	0.178	ND		0.177	0.59	J	0.186	ND		0.179
Barium, Total	7440-39-3	400	146		0.155	198		0.149	142		0.148	150		0.156	137		0.15
Beryllium, Total	7440-41-7	47	0.178	J	0.029	0.248	J	0.028	0.213	J	0.028	0.206	J	0.03	0.189	J	0.028
Cadmium, Total	7440-43-9	4.3	ND		0.087	ND		0.084	ND		0.084	ND		0.088	ND		0.084
Calcium, Total	7440-70-2	NA	5800		3.12	2120		3	2310		2.98	6690		3.13	2780		3.01
Chromium, Total	7440-47-3	NA	75.2		0.086	28.6		0.082	24.4		0.082	26.3		0.086	20.7		0.083
Cobalt, Total	7440-48-4	NA	12		0.148	15.3		0.142	14.2		0.141	14.2		0.148	13.4		0.143
Copper, Total	7440-50-8	270	28.6		0.23	40.4		0.221	23.8		0.22	33.3		0.231	30.7		0.222
Iron, Total	7439-89-6	NA	20500		0.804	22900		0.773	24200		0.769	21600		0.808	20600		0.778
Lead, Total	7439-92-1	400	20.1		0.239	14.2		0.23	5.27		0.228	12.5		0.24	19.9		0.231
Magnesium, Total	7439-95-4	NA	5300		1.37	6250		1.32	5520		1.31	7980		1.38	5470		1.33
Manganese, Total	7439-96-5	2000	502		0.142	323		0.136	192		0.135	211		0.142	195		0.137
Mercury, Total	7439-97-6	0.73	0.066	J	0.015	0.041	J	0.015	ND		0.015	0.036	J	0.016	0.138		0.015
Nickel, Total	7440-02-0	130	16.7		0.216	20.2		0.207	21		0.206	20.8		0.216	19.4		0.208
Potassium, Total	7440-09-7	NA	6480		12.8	7640		12.3	7810		12.3	7500		12.9	7150		12.4
Selenium, Total	7782-49-2	4	0.445	J	0.23	0.891	J	0.221	0.912	J	0.22	0.59	J	0.231	0.577	J	0.222
Silver, Total	7440-22-4	8.3	ND		0.252	ND		0.242	ND		0.241	ND		0.253	ND		0.244
Sodium, Total	7440-23-5	NA	146	J	2.81	169	J	2.7	127	J	2.68	182		2.82	136	J	2.71
Thallium, Total	7440-28-0	NA	ND		0.281	ND		0.27	ND		0.268	ND		0.282	ND		0.271
Vanadium, Total	7440-62-2	NA	35.7		0.181	47.3		0.174	36.6		0.173	42.5		0.182	30.8		0.175
Zinc, Total	7440-66-6	2480	61		0.261	59.1		0.251	61.5		0.25	61.5		0.262	65.6		0.252
Chromium, Trivalent	16065-83-1	180	75		0.91	29		0.9	24		0.88	26		0.95	21		0.88
Chromium, Hexavalent	18540-29-9	19	ND		0.182	ND		0.18	ND		0.176	ND		0.19	65.6		0.252

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
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E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 3 - Metals
May 2018

		SAMPLE ID:	TP-10B_COMP			TP-11A_COMP			TP-11B_COMP			TP-13A_COMP			TP-13B_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815546-39			L1815750-03			L1815750-06			L1815750-09			L1815750-12		
		COLLECTION DATE:	5/1/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
TOTAL METALS																	
Aluminum, Total	7429-90-5	NA	14200		2.37	9560		2.26	13200		2.34	16600		2.51	13600		2.35
Antimony, Total	7440-36-0	NA	ND		0.333	ND		0.319	ND		0.33	ND		0.353	ND		0.331
Arsenic, Total	7440-38-2	16	0.974		0.182	1.34		0.174	0.972		0.18	1.49		0.193	1.13		0.181
Barium, Total	7440-39-3	400	152		0.153	118		0.145	168		0.146	208		0.154	168		0.151
Beryllium, Total	7440-41-7	47	0.246	J	0.029	0.217	J	0.028	0.235	J	0.028	0.319	J	0.029	0.278	J	0.029
Cadmium, Total	7440-43-9	4.3	ND		0.086	0.268	J	0.082	0.26	J	0.085	0.326	J	0.091	0.262	J	0.085
Calcium, Total	7440-70-2	NA	3550		3.07	5180		2.92	3060		2.94	3200		3.1	2780		3.04
Chromium, Total	7440-47-3	NA	27.1		0.084	19.9		0.08	27.7		0.081	31.1		0.085	27.6		0.083
Cobalt, Total	7440-48-4	NA	18.2		0.146	9.72		0.139	12.8		0.144	14.5		0.154	11.5		0.145
Copper, Total	7440-50-8	270	36.2		0.226	24.1		0.216	32.8		0.224	42.6		0.24	32.4		0.225
Iron, Total	7439-89-6	NA	22000		0.792	18700		0.758	21700		0.783	26800		0.84	22200		0.787
Lead, Total	7439-92-1	400	30.8		0.235	65.2		0.225	7.71		0.232	17.9		0.249	10.4		0.234
Magnesium, Total	7439-95-4	NA	6050		1.35	5300		1.29	6370		1.34	7690		1.43	5800		1.34
Manganese, Total	7439-96-5	2000	244		0.139	273		0.133	211		0.138	271		0.148	237		0.138
Mercury, Total	7439-97-6	0.73	0.127		0.015	0.2		0.015	0.025	J	0.015	0.028	J	0.016	0.035	J	0.015
Nickel, Total	7440-02-0	130	21.6		0.212	16.1		0.203	17		0.21	21.7		0.225	17.1		0.211
Potassium, Total	7440-09-7	NA	7430		12.6	4870		12.1	6800		12.5	7810		13.4	6330		12.6
Selenium, Total	7782-49-2	4	0.746	J	0.226	0.319	J	0.216	ND		0.224	ND		0.24	ND		0.225
Silver, Total	7440-22-4	8.3	ND		0.248	ND		0.237	ND		0.246	ND		0.263	ND		0.247
Sodium, Total	7440-23-5	NA	170	J	2.76	123	J	2.64	203		2.73	205		2.93	141	J	2.74
Thallium, Total	7440-28-0	NA	ND		0.276	ND		0.264	ND		0.273	ND		0.293	ND		0.274
Vanadium, Total	7440-62-2	NA	40.1		0.178	27.8		0.17	41.4		0.176	52.7		0.189	36.9		0.177
Zinc, Total	7440-66-6	2480	67.7		0.257	55.9		0.246	49.6		0.254	56.8		0.272	49.9		0.255
Chromium, Trivalent	16065-83-1	180	27		0.91	20		0.89	28		0.89	31		0.94	28		0.9
Chromium, Hexavalent	18540-29-9	19	67.7		0.257	55.9		0.246	49.6		0.254	56.8		0.272	49.9		0.255

Legend:
ND - Not Detected
NA - Not Applicable
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J - Estimated Value (below the RI, above the MDL)
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Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 3 - Metals
May 2018

		SAMPLE ID:	TP-15A_COMP			TP-15B_COMP			TP-16_COMP			TP-17A_COMP			TP-17B_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815750-15			L1815750-18			L1815750-21			L1815750-24			L1815750-27		
		COLLECTION DATE:	5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
TOTAL METALS																	
Aluminum, Total	7429-90-5	NA	13400		2.33	8920		2.31	8890		2.23	12500		2.5	13300		2.44
Antimony, Total	7440-36-0	NA	ND		0.328	ND		0.325	ND		0.314	ND		0.352	ND		0.343
Arsenic, Total	7440-38-2	16	1.65		0.18	1.33		0.178	1.88		0.172	1.75		0.192	1.08		0.188
Barium, Total	7440-39-3	400	148		0.153	87.7		0.149	88.2		0.147	126		0.156	161		0.15
Beryllium, Total	7440-41-7	47	0.219	J	0.029	0.197	J	0.028	0.161	J	0.028	0.207	J	0.03	0.268	J	0.029
Cadmium, Total	7440-43-9	4.3	0.294	J	0.085	0.223	J	0.084	0.198	J	0.081	0.333	J	0.091	0.325	J	0.089
Calcium, Total	7440-70-2	NA	3630		3.07	1440		2.99	2980		2.96	19000		3.14	5780		3.02
Chromium, Total	7440-47-3	NA	28.6		0.084	17.2		0.082	16.3		0.081	24.7		0.086	30.3		0.083
Cobalt, Total	7440-48-4	NA	12.6		0.143	8.52		0.142	7.02		0.137	8.66		0.154	13.9		0.15
Copper, Total	7440-50-8	270	38		0.223	20.8		0.221	16.7		0.213	36.6		0.239	34.6		0.233
Iron, Total	7439-89-6	NA	22300		0.78	16200		0.773	15100		0.745	20900		0.835	22000		0.816
Lead, Total	7439-92-1	400	19		0.232	14.4		0.23	44.7		0.221	30.2		0.248	11.5		0.242
Magnesium, Total	7439-95-4	NA	7030		1.33	4120		1.32	4020		1.27	6900		1.42	6240		1.39
Manganese, Total	7439-96-5	2000	249		0.137	251		0.136	240		0.131	279		0.147	285		0.144
Mercury, Total	7439-97-6	0.73	0.058	J	0.015	0.043	J	0.015	0.388		0.014	0.043	J	0.015	0.032	J	0.015
Nickel, Total	7440-02-0	130	18.5		0.209	15		0.207	9.24		0.2	11.6		0.224	21.6		0.219
Potassium, Total	7440-09-7	NA	7140		12.4	3750		12.3	3800		11.9	6640		13.3	5850		13
Selenium, Total	7782-49-2	4	ND		0.223	ND		0.221	0.256	J	0.213	0.444	J	0.239	0.47	J	0.233
Silver, Total	7440-22-4	8.3	ND		0.244	ND		0.242	ND		0.234	ND		0.262	ND		0.256
Sodium, Total	7440-23-5	NA	206		2.72	109	J	2.7	97.6	J	2.6	316		2.91	175	J	2.85
Thallium, Total	7440-28-0	NA	ND		0.272	ND		0.27	ND		0.26	ND		0.291	ND		0.285
Vanadium, Total	7440-62-2	NA	46.4		0.175	27.4		0.174	27.1		0.167	40.7		0.188	38.3		0.183
Zinc, Total	7440-66-6	2480	56.5		0.253	38.6		0.251	41.3		0.242	61		0.271	55.3		0.265
Chromium, Trivalent	16065-83-1	180	29		0.89	17		0.88	16		0.86	25		0.93	30		0.91
Chromium, Hexavalent	18540-29-9	19	56.5		0.253	ND		0.176	ND		0.171	ND		0.186	ND		0.183

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 3 - Metals
May 2018

		SAMPLE ID:	TP-18A_COMP			TP-18B_COMP			TP-19A_COMP			TP-19B_COMP			TP-21_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815750-30			L1815750-33			L1815750-36			L1815750-39			L1815750-42		
		COLLECTION DATE:	5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
TOTAL METALS																	
Aluminum, Total	7429-90-5	NA	12700		2.34	7630		2.3	9620		2.3	7090		2.34	12400		2.25
Antimony, Total	7440-36-0	NA	ND		0.329	ND		0.324	ND		0.323	ND		0.33	ND		0.316
Arsenic, Total	7440-38-2	16	0.745	J	0.18	1.72		0.177	1.41		0.177	1.41		0.18	1.64		0.173
Barium, Total	7440-39-3	400	165		0.151	75.1		0.149	90.7		0.15	66.8		0.156	126		0.146
Beryllium, Total	7440-41-7	47	0.225	J	0.029	0.137	J	0.028	0.138	J	0.029	0.081	J	0.03	0.226	J	0.028
Cadmium, Total	7440-43-9	4.3	0.26	J	0.085	0.188	J	0.084	0.213	J	0.083	0.234	J	0.085	0.316	J	0.082
Calcium, Total	7440-70-2	NA	2360		3.03	2320		2.99	3540		3.03	6950		3.14	1650		2.93
Chromium, Total	7440-47-3	NA	31		0.083	12.9		0.082	19.3		0.083	9.75		0.086	25.4		0.08
Cobalt, Total	7440-48-4	NA	12.8		0.144	6.67		0.142	10.1		0.141	7.87		0.144	13.1		0.138
Copper, Total	7440-50-8	270	31.5		0.223	15.4		0.22	17.6		0.22	45.9		0.224	22.6		0.215
Iron, Total	7439-89-6	NA	20200		0.782	13500		0.77	16200		0.768	16800		0.784	21900		0.751
Lead, Total	7439-92-1	400	7.95		0.232	25.6		0.228	10.8		0.228	7.82		0.232	15.6		0.223
Magnesium, Total	7439-95-4	NA	6200		1.33	3410		1.31	4840		1.31	4640		1.34	6470		1.28
Manganese, Total	7439-96-5	2000	217		0.138	194		0.136	240		0.135	202		0.138	527		0.132
Mercury, Total	7439-97-6	0.73	0.02	J	0.015	0.169		0.015	0.061	J	0.015	0.05	J	0.015	0.05	J	0.015
Nickel, Total	7440-02-0	130	19		0.21	9.27		0.206	11.6		0.206	7.78		0.21	16.9		0.201
Potassium, Total	7440-09-7	NA	6530		12.5	3340		12.3	4540		12.2	2930		12.5	5840		12
Selenium, Total	7782-49-2	4	0.242	J	0.223	ND		0.22	ND		0.22	0.304	J	0.224	0.416	J	0.215
Silver, Total	7440-22-4	8.3	ND		0.245	ND		0.241	ND		0.241	ND		0.246	ND		0.236
Sodium, Total	7440-23-5	NA	146	J	2.73	103	J	2.68	121	J	2.68	132	J	2.73	117	J	2.62
Thallium, Total	7440-28-0	NA	ND		0.273	ND		0.268	ND		0.268	ND		0.273	ND		0.262
Vanadium, Total	7440-62-2	NA	34.9		0.176	23.7		0.173	29.2		0.173	40.8		0.176	39.4		0.169
Zinc, Total	7440-66-6	2480	51.2		0.254	37.1		0.25	39.9		0.249	34.2		0.254	52.1		0.244
Chromium, Trivalent	16065-83-1	180	31		0.89	13		0.9	19		0.88	9.8		0.91	25		0.88
Chromium, Hexavalent	18540-29-9	19	ND		0.178	ND		0.179	ND		0.176	ND		0.182	ND		0.176

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 3 - Metals
May 2018

		SAMPLE ID:	TPX-_050218-C			TP-23_COMP			TP-24_COMP			TP-25_COMP			TP-26_COMP		
		DEPTH INTERVAL															
		LAB ID:	L1815750-44			L1815928-03			L1815928-06			L1815928-09			L1815928-12		
		COLLECTION DATE:	5/2/2018			5/3/2018			5/3/2018			5/3/2018			5/3/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
TOTAL METALS																	
Aluminum, Total	7429-90-5	NA	15400		2.32	8560		2.24	11600		2.22	10300		2.31	11400		2.28
Antimony, Total	7440-36-0	NA	ND		0.327	ND		0.316	ND		0.312	ND		0.325	ND		0.321
Arsenic, Total	7440-38-2	16	1.37		0.179	1.05		0.173	1.58		0.171	0.874		0.178	1.13		0.176
Barium, Total	7440-39-3	400	172		0.145	90.9		0.144	123		0.143	100		0.149	115		0.147
Beryllium, Total	7440-41-7	47	0.242	J	0.028	0.1	J	0.027	0.172	J	0.027	0.094	J	0.028	0.169	J	0.028
Cadmium, Total	7440-43-9	4.3	0.352	J	0.084	ND		0.081	ND		0.081	ND		0.084	ND		0.083
Calcium, Total	7440-70-2	NA	3930		2.92	1880		2.91	2550		2.88	7910		3	2260		2.95
Chromium, Total	7440-47-3	NA	29.6		0.08	14.5		0.08	22.5		0.079	16.5		0.082	15.3		0.081
Cobalt, Total	7440-48-4	NA	16.3		0.143	7.61		0.138	10		0.136	9.75		0.142	10.7		0.14
Copper, Total	7440-50-8	270	49.1		0.222	13.9		0.214	20.3		0.212	28.7		0.221	16.6		0.218
Iron, Total	7439-89-6	NA	25700		0.776	13000		0.75	17600		0.742	16500		0.773	17600		0.762
Lead, Total	7439-92-1	400	11.7		0.23	13.4		0.222	31.4		0.22	12.1		0.23	16.6		0.226
Magnesium, Total	7439-95-4	NA	7780		1.32	3560		1.28	4560		1.26	7360		1.32	4760		1.3
Manganese, Total	7439-96-5	2000	252		0.137	160		0.132	267		0.131	202		0.136	262		0.134
Mercury, Total	7439-97-6	0.73	0.024	J	0.015	0.042	J	0.014	0.126		0.014	0.061	J	0.015	0.056	J	0.015
Nickel, Total	7440-02-0	130	22.6		0.208	10.7		0.201	14.6		0.199	11.6		0.207	12.1		0.204
Potassium, Total	7440-09-7	NA	7580		12.4	4190		12	4890		11.8	5620		12.3	5860		12.2
Selenium, Total	7782-49-2	4	0.241	J	0.222	0.232	J	0.214	0.378	J	0.212	0.3	J	0.221	0.228	J	0.218
Silver, Total	7440-22-4	8.3	ND		0.243	ND		0.235	ND		0.232	ND		0.242	ND		0.239
Sodium, Total	7440-23-5	NA	256		2.71	128	J	2.62	128	J	2.59	392		2.7	120	J	2.66
Thallium, Total	7440-28-0	NA	ND		0.271	ND		0.262	ND		0.259	ND		0.27	ND		0.266
Vanadium, Total	7440-62-2	NA	54.8		0.174	23.9		0.168	33.9		0.167	37.2		0.174	35.5		0.171
Zinc, Total	7440-66-6	2480	62.9		0.252	42.7		0.243	59.8		0.241	44.1		0.251	53.8		0.247
Chromium, Trivalent	16065-83-1	180	30		0.89	14		0.85	22		0.86	16		0.89	15		0.88
Chromium, Hexavalent	18540-29-9	19	ND		0.177	ND		0.17	ND		0.172	ND		0.178	ND		0.176

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 3 - Metals
May 2018

		SAMPLE ID:	TP-27_COMP			TP-29_COMP			TP-30_COMP			TP-31_COMP			TP-32_COMP			TP-X-050415-C		
		DEPTH INTERVAL																		
		LAB ID:	L1815928-15			L1815928-18			L1816155-03			L1816155-06			L1816155-09			L1816155-11		
		COLLECTION DATE:	5/3/2018			5/3/2018			5/4/2018			5/4/2018			5/4/2018			5/4/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
TOTAL METALS																				
Aluminum, Total	7429-90-5	NA	11900		2.25	10300		2.35	11400		2.32	9770		2.38	11200		2.28	10600		2.39
Antimony, Total	7440-36-0	NA	ND		0.316	ND		0.331	ND		0.326	ND		0.335	ND		0.32	ND		0.337
Arsenic, Total	7440-38-2	16	0.965		0.173	1.13		0.181	1.3		0.179	2.74		0.184	1.05		0.175	2.22		0.184
Barium, Total	7440-39-3	400	190		0.145	137		0.152	206		0.149	115		0.154	180		0.147	120		0.154
Beryllium, Total	7440-41-7	47	0.033	J	0.028	0.096	J	0.029	ND		0.028	ND		0.029	ND		0.028	ND		0.029
Cadmium, Total	7440-43-9	4.3	ND		0.082	ND		0.085	0.893		0.084	0.821	J	0.087	0.801	J	0.083	0.842	J	0.087
Calcium, Total	7440-70-2	NA	3820		2.91	10700		3.05	10100		3.01	36500		3.09	2600		2.95	20500		3.1
Chromium, Total	7440-47-3	NA	31.2		0.08	24.4		0.084	28.8		0.082	25.2		0.085	28.9		0.081	27.3		0.085
Cobalt, Total	7440-48-4	NA	13.2		0.138	9.52		0.144	12.7		0.142	8.28		0.146	13		0.14	9.61		0.147
Copper, Total	7440-50-8	270	35.4		0.215	19		0.225	20.9		0.222	22		0.228	18.3		0.217	30.4		0.229
Iron, Total	7439-89-6	NA	18600		0.751	15900		0.786	18200		0.776	15000		0.797	17300		0.761	15200		0.801
Lead, Total	7439-92-1	400	10.8		0.223	16.1		0.233	12.6		0.23	29.4		0.236	4.64		0.226	39.3		0.238
Magnesium, Total	7439-95-4	NA	7790		1.28	8460		1.34	11300		1.32	22700		1.36	7890		1.3	13200		1.36
Manganese, Total	7439-96-5	2000	229		0.132	212		0.138	211		0.136	224		0.14	203		0.134	239		0.141
Mercury, Total	7439-97-6	0.73	0.037	J	0.015	0.037	J	0.015	0.019	J	0.015	0.047	J	0.015	ND		0.014	0.057	J	0.015
Nickel, Total	7440-02-0	130	25.3		0.201	16.4		0.211	21.7		0.208	15.8		0.214	23.3		0.204	21.2		0.215
Potassium, Total	7440-09-7	NA	5520		12	4520		12.5	5810		12.4	3620		12.7	5810		12.1	3620		12.8
Selenium, Total	7782-49-2	4	0.324	J	0.215	0.4	J	0.225	1.11	J	0.222	0.953	J	0.228	0.885	J	0.217	1.17	J	0.229
Silver, Total	7440-22-4	8.3	ND		0.235	ND		0.246	ND		0.243	ND		0.25	ND		0.238	ND		0.251
Sodium, Total	7440-23-5	NA	210		2.62	307		2.74	301		2.7	454		2.78	276		2.66	456		2.79
Thallium, Total	7440-28-0	NA	ND		0.262	ND		0.274	ND		0.27	ND		0.278	ND		0.266	ND		0.279
Vanadium, Total	7440-62-2	NA	38.5		0.169	32.1		0.177	36		0.174	29.5		0.179	36.4		0.171	30.1		0.18
Zinc, Total	7440-66-6	2480	54.3		0.244	51.8		0.255	54.8		0.252	66.7		0.258	43.5		0.247	86		0.26
Chromium, Trivalent	16065-83-1	180	31		0.87	24		0.91	29		0.89	25		0.89	29		0.87	27		0.89
Chromium, Hexavalent	18540-29-9	19	ND		0.173	ND		0.181	ND		0.178	ND		0.179	ND		0.173	ND		0.178

Legend:
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E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 4 - Herbicides, Pesticides, and PCBs
May 2018

		SAMPLE ID:	TP-2_COMP			TP-7A_COMP			TP-7B_COMP			TP-12_COMP			TP-14A_COMP			TP-14B_COMP			TP-20_COMP		
		DEPTH INTERVAL																					
		LAB ID:	L1815263-03			L1815263-06			L1815263-09			L1815263-12			L1815263-15			L1815263-18			L1815263-21		
		COLLECTION DATE:	4/30/2018			4/30/2018			4/30/2018			4/30/2018			4/30/2018			4/30/2018			4/30/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
CHLORINATED HERBICIDES BY GC																							
2,4-D	94-75-7	NA	ND		0.0122	ND		0.0114	ND		0.0115	ND		0.012	ND		0.0116	ND		0.0115	ND		0.0112
2,4,5-T	93-76-5	NA	ND		0.00602	ND		0.00563	ND		0.00565	ND		0.0059	ND		0.00569	ND		0.00566	ND		0.00552
2,4,5-TP (Silvex)	93-72-1	3.8	ND		0.00516	ND		0.00483	ND		0.00485	ND		0.00506	ND		0.00488	ND		0.00485	ND		0.00474
ORGANOCHLORINE PESTICIDES BY GC																							
Delta-BHC	319-86-8	0.25	ND		0.000348	ND		0.000346	ND		0.000338	ND		0.000347	ND		0.000343	ND		0.000337	ND		0.000337
Lindane	58-89-9	0.1	ND		0.000331	ND		0.000329	ND		0.000322	ND		0.00033	ND		0.000327	ND		0.000321	ND		0.00032
Alpha-BHC	319-84-6	0.02	ND		0.00021	ND		0.000209	ND		0.000204	ND		0.00021	ND		0.000208	ND		0.000204	ND		0.000203
Beta-BHC	319-85-7	0.09	ND		0.000675	ND		0.000669	ND		0.000655	ND		0.000672	ND		0.000665	ND		0.000653	ND		0.000652
Heptachlor	76-44-8	0.38	ND		0.000399	ND		0.000396	ND		0.000387	ND		0.000398	ND		0.000393	ND		0.000386	ND		0.000385
Aldrin	309-00-2	0.097	ND		0.000626	ND		0.000621	ND		0.000608	ND		0.000624	ND		0.000618	ND		0.000606	ND		0.000605
Heptachlor epoxide	1024-57-3	NA	ND		0.001	ND		0.000993	ND		0.000971	ND		0.000997	ND		0.000987	ND		0.000968	ND		0.000967
Endrin	72-20-8	0.06	ND		0.000304	ND		0.000302	ND		0.000295	ND		0.000303	ND		0.0003	ND		0.000294	ND		0.000294
Endrin aldehyde	7421-93-4	NA	ND		0.000778	ND		0.000772	ND		0.000756	ND		0.000776	ND		0.000767	ND		0.000753	ND		0.000752
Endrin ketone	53494-70-5	NA	ND		0.000458	ND		0.000454	ND		0.000445	ND		0.000457	ND		0.000452	ND		0.000443	ND		0.000443
Dieldrin	60-57-1	0.1	ND		0.000556	0.00372		0.000552	ND		0.00054	ND		0.000554	ND		0.000548	ND		0.000538	ND		0.000537
4,4'-DDE	72-55-9	8.9	ND		0.000412	0.00874		0.000408	0.0011	J	0.000399	ND		0.00041	0.000425	J	0.000406	0.000496	J	0.000398	0.00117	J	0.000397
4,4'-DDD	72-54-8	13	ND		0.000635	0.00161	J	0.00063	0.00106	J	0.000616	ND		0.000632	ND		0.000626	ND		0.000614	ND		0.000613
4,4'-DDT	50-29-3	7.9	ND		0.00143	0.0215		0.00142	0.00334		0.00139	ND		0.00143	0.00336		0.00141	0.00357		0.00138	0.00251	J	0.00138
Endosulfan I	959-98-8	24	ND		0.00042	ND		0.000417	ND		0.000408	ND		0.000419	ND		0.000414	ND		0.000407	ND		0.000406
Endosulfan II	33213-65-9	24	ND		0.000595	ND		0.00059	ND		0.000577	ND		0.000592	ND		0.000586	ND		0.000575	ND		0.000574
Endosulfan sulfate	1031-07-8	24	ND		0.000353	ND		0.00035	ND		0.000342	ND		0.000352	ND		0.000348	ND		0.000341	ND		0.000341
Methoxychlor	72-43-5	NA	ND		0.00104	ND		0.00103	ND		0.00101	ND		0.00103	ND		0.00102	ND		0.001	ND		0.001
Toxaphene	8001-35-2	NA	ND		0.00934	ND		0.00927	ND		0.00907	ND		0.00931	ND		0.00921	ND		0.00904	ND		0.00902
cis-Chlordane	5103-71-9	2.9	ND		0.00062	0.00345	P	0.000615	ND		0.000602	ND		0.000618	ND		0.000611	ND		0.0006	ND		0.000599
trans-Chlordane	5103-74-2	NA	ND		0.000587	0.00272	PI	0.000582	ND		0.00057	ND		0.000585	ND		0.000579	ND		0.000568	ND		0.000567
Chlordane	57-74-9	NA	ND		0.00589	0.0198		0.00585	ND		0.00572	ND		0.00587	ND		0.00581	ND		0.0057	ND		0.00569
POLYCHLORINATED BIPHENYLS BY GC																							
Aroclor 1016	12674-11-2	1	ND		0.00422	ND		0.00419	ND		0.00399	ND		0.00426	ND		0.004	ND		0.00407	ND		0.00406
Aroclor 1221	11104-28-2	1	ND		0.00566	ND		0.00563	ND		0.00536	ND		0.00571	ND		0.00537	ND		0.00546	ND		0.00545
Aroclor 1232	11141-16-5	1	ND		0.00366	ND		0.00364	ND		0.00346	ND		0.00369	ND		0.00347	ND		0.00353	ND		0.00352
Aroclor 1242	53469-21-9	1	ND		0.00455	ND		0.00453	ND		0.00431	ND		0.0046	ND		0.00432	ND		0.00439	ND		0.00438
Aroclor 1248	12672-29-6	1	ND		0.00417	ND		0.00415	ND		0.00395	ND		0.00421	ND		0.00396	ND		0.00402	ND		0.00402
Aroclor 1254	11097-69-1	1	ND		0.00303	0.0138	J	0.00302	ND		0.00287	ND		0.00306	ND		0.00288	0.00624	J	0.00293	0.00539	J	0.00292
Aroclor 1260	11096-82-5	1	ND		0.00388	0.0111	J	0.00386	ND		0.00367	ND		0.00392	ND		0.00369	0.00582	J	0.00374	0.0044	J	0.00374
Aroclor 1262	37324-23-5	1	ND		0.00306	ND		0.00304	ND		0.00289	ND		0.00309	ND		0.0029	ND		0.00295	ND		0.00294
Aroclor 1268	11100-14-4	1	ND		0.00263	ND		0.00262	ND		0.00249	ND		0.00266	ND		0.0025	ND		0.00254	ND		0.00254
PCBs, Total	1336-36-3	1	ND		0.00263	0.0249	J	0.00262	ND		0.00249	ND		0.00266	ND		0.0025	0.0121	J	0.00254	0.00979	J	0.00254
GENERAL CHEMISTRY																							
Solids, Total	NONE	NA	84.4		NA	89.1		NA	89.2		NA	86.7		NA	89.9		NA	88.9		NA	91.8		NA
Cyanide, Total	57-12-5	27	ND		0.24	ND		0.23	ND		0.23	ND		0.23	ND		0.23	ND		0.23	ND		0.22

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of
I - The lower value for the two columns has been reported due to obvious interference.

P - The RPD between the results for the two columns exceeds the method-specified criteria.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 4 - Herbicides, Pesticides, and PCBs
May 2018

		SAMPLE ID:	TP-22_COMP			TP-28_COMP			TP-1A_COMP			TP-1B_COMP			TP-3_COMP			TP-4_COMP			TP-5A_COMP		
		DEPTH INTERVAL																					
		LAB ID:	L1815263-24			L1815263-27			L1815546-05			L1815546-09			L1815546-12			L1815546-15			L1815546-18		
		COLLECTION DATE:	4/30/2018			4/30/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
CHLORINATED HERBICIDES BY GC																							
2,4-D	94-75-7	NA	ND		0.0112	ND		0.0114	ND		0.0115	ND		0.0116	ND		0.0118	ND		0.012	ND		0.0113
2,4,5-T	93-76-5	NA	ND		0.00553	ND		0.00563	ND		0.00568	ND		0.0057	ND		0.00584	ND		0.0059	ND		0.00554
2,4,5-TP (Silvex)	93-72-1	3.8	ND		0.00475	ND		0.00483	ND		0.00487	ND		0.00489	ND		0.00501	ND		0.00506	ND		0.00476
ORGANOCHLORINE PESTICIDES BY GC																							
Delta-BHC	319-86-8	0.25	ND		0.000323	ND		0.000334	ND		0.000337	ND		0.000355	ND		0.000346	ND		0.000345	ND		0.00034
Lindane	58-89-9	0.1	ND		0.000307	ND		0.000317	ND		0.00032	ND		0.000338	ND		0.000329	ND		0.000328	ND		0.000324
Alpha-BHC	319-84-6	0.02	ND		0.000195	ND		0.000202	ND		0.000204	ND		0.000215	ND		0.000209	ND		0.000208	ND		0.000206
Beta-BHC	319-85-7	0.09	ND		0.000625	ND		0.000646	ND		0.000653	ND		0.000688	ND		0.00067	ND		0.000668	ND		0.000659
Heptachlor	76-44-8	0.38	ND		0.000369	ND		0.000382	ND		0.000386	ND		0.000407	ND		0.000396	ND		0.000395	ND		0.000389
Aldrin	309-00-2	0.097	ND		0.00058	ND		0.0006	ND		0.000606	ND		0.000639	ND		0.000622	ND		0.00062	ND		0.000612
Heptachlor epoxide	1024-57-3	NA	ND		0.000927	ND		0.000958	ND		0.000968	ND		0.00102	ND		0.000993	ND		0.00099	ND		0.000977
Endrin	72-20-8	0.06	ND		0.000282	ND		0.000291	ND		0.000294	ND		0.00031	0.0023	P	0.000302	ND		0.000301	ND		0.000297
Endrin aldehyde	7421-93-4	NA	ND		0.000721	ND		0.000745	ND		0.000753	ND		0.000794	ND		0.000773	ND		0.00077	ND		0.00076
Endrin ketone	53494-70-5	NA	ND		0.000424	ND		0.000439	ND		0.000443	ND		0.000467	ND		0.000455	ND		0.000453	ND		0.000447
Dieldrin	60-57-1	0.1	ND		0.000515	ND		0.000532	ND		0.000538	ND		0.000567	0.000726	J	0.000552	0.00753		0.00055	0.00443		0.000543
4,4'-DDE	72-55-9	8.9	0.00548		0.000381	0.000453	J	0.000394	0.000546	J	0.000398	0.00149	J	0.000419	0.0022	P	0.000408	0.00783		0.000407	0.00842		0.000402
4,4'-DDD	72-54-8	13	ND		0.000588	ND		0.000608	0.00137	J	0.000614	0.00179	J	0.000647	ND		0.00063	0.0023	P	0.000628	0.00265		0.00062
4,4'-DDT	50-29-3	7.9	0.00326		0.00132	0.00329		0.00137	ND		0.00138	0.00255	J	0.00146	0.00541	P	0.00142	0.0152		0.00142	0.0298		0.0014
Endosulfan I	959-98-8	24	ND		0.000389	ND		0.000402	ND		0.000407	ND		0.000428	ND		0.000417	ND		0.000416	ND		0.00041
Endosulfan II	33213-65-9	24	ND		0.000551	ND		0.000569	ND		0.000575	ND		0.000606	0.00175	J	0.00059	ND		0.000588	ND		0.00058
Endosulfan sulfate	1031-07-8	24	ND		0.000327	ND		0.000338	ND		0.000341	ND		0.00036	ND		0.00035	ND		0.000349	ND		0.000344
Methoxychlor	72-43-5	NA	ND		0.000961	ND		0.000994	ND		0.001	ND		0.00106	ND		0.00103	ND		0.00103	ND		0.00101
Toxaphene	8001-35-2	NA	ND		0.00865	ND		0.00894	ND		0.00904	ND		0.00952	ND		0.00927	ND		0.00924	ND		0.00912
cis-Chlordane	5103-71-9	2.9	ND		0.000574	ND		0.000593	0.000668	J	0.0006	0.00106	J	0.000632	0.00123	J	0.000615	0.00359	PI	0.000613	0.00336		0.000605
trans-Chlordane	5103-74-2	NA	ND		0.000544	ND		0.000562	ND		0.000568	ND		0.000598	ND		0.000583	0.00246	PI	0.000581	0.00223		0.000573
Chlordane	57-74-9	NA	ND		0.00546	ND		0.00564	ND		0.0057	ND		0.00601	ND		0.00585	ND		0.00583	0.134		0.00576
POLYCHLORINATED BIPHENYLS BY GC																							
Aroclor 1016	12674-11-2	1	ND		0.00396	ND		0.00405	ND		0.00418	ND		0.00423	ND		0.00426	ND		0.00426	ND		0.00404
Aroclor 1221	11104-28-2	1	ND		0.00531	ND		0.00544	ND		0.00561	ND		0.00567	ND		0.00571	ND		0.00572	ND		0.00542
Aroclor 1232	11141-16-5	1	ND		0.00343	ND		0.00352	ND		0.00362	ND		0.00367	ND		0.00369	ND		0.0037	ND		0.0035
Aroclor 1242	53469-21-9	1	ND		0.00427	ND		0.00438	ND		0.00451	ND		0.00456	ND		0.0046	0.016	J	0.0046	0.349		0.00436
Aroclor 1248	12672-29-6	1	ND		0.00391	ND		0.00401	ND		0.00413	ND		0.00418	ND		0.00421	ND		0.00422	ND		0.00399
Aroclor 1254	11097-69-1	1	0.0066	J	0.00285	0.0172	J	0.00292	ND		0.00301	ND		0.00304	ND		0.00306	0.01	J	0.00307	0.053		0.0029
Aroclor 1260	11096-82-5	1	0.00478	J	0.00364	0.00857	J	0.00373	ND		0.00385	ND		0.00389	ND		0.00392	ND		0.00392	0.0106	J	0.00372
Aroclor 1262	37324-23-5	1	ND		0.00287	ND		0.00294	ND		0.00303	ND		0.00306	ND		0.00309	ND		0.00309	ND		0.00292
Aroclor 1268	11100-14-4	1	ND		0.00247	ND		0.00253	ND		0.00261	ND		0.00264	ND		0.00266	ND		0.00266	ND		0.00252
PCBs, Total	1336-36-3	1	0.0114	J	0.00247	0.0258	J	0.00253	ND		0.00261	ND		0.00264	ND		0.00266	0.026	J	0.00266	0.413	J	0.00252
GENERAL CHEMISTRY																							
Solids, Total	NONE	NA	92		NA	91.6		NA	89.1		NA	87.8		NA	87.9		NA	87.2		NA	90.7		NA
Cyanide, Total	57-12-5	27	ND		0.21	ND		0.22	ND		0.22	ND		0.24	ND		0.23	ND		0.23	ND		0.22

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of
I - The lower value for the two columns has been reported due to obvious interference.

P - The RPD between the results for the two columns exceeds the method-specified criteria.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 4 - Herbicides, Pesticides, and PCBs
May 2018

		SAMPLE ID:	TP-5B_COMP			TP-6_COMP			TP-8_COMP			TP-9A_COMP			TP-9B_COMP			TP-10A_COMP			TP-10B_COMP		
		DEPTH INTERVAL																					
		LAB ID:	L1815546-21			L1815546-24			L1815546-27			L1815546-30			L1815546-33			L1815546-36			L1815546-39		
		COLLECTION DATE:	5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018			5/1/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)
CHLORINATED HERBICIDES BY GC																							
2,4-D	94-75-7	NA	ND		0.0119	ND		0.0116	ND		0.0118	ND		0.0113	ND		0.0123	ND		0.0113	ND		0.0119
2,4,5-T	93-76-5	NA	ND		0.00584	ND		0.00571	ND		0.0058	ND		0.00556	ND		0.00604	ND		0.00557	ND		0.00584
2,4,5-TP (Silvex)	93-72-1	3.8	ND		0.00501	ND		0.0049	ND		0.00498	ND		0.00478	ND		0.00518	ND		0.00478	ND		0.00501
ORGANOCHLORINE PESTICIDES BY GC																							
Delta-BHC	319-86-8	0.25	ND		0.000348	ND		0.00034	ND		0.00034	ND		0.000333	ND		0.000352	ND		0.00033	ND		0.00035
Lindane	58-89-9	0.1	ND		0.000331	ND		0.000323	ND		0.000323	ND		0.000317	ND		0.000334	ND		0.000314	ND		0.000332
Alpha-BHC	319-84-6	0.02	ND		0.00021	ND		0.000205	ND		0.000205	ND		0.000201	ND		0.000212	ND		0.000199	ND		0.000211
Beta-BHC	319-85-7	0.09	ND		0.000673	ND		0.000658	ND		0.000658	ND		0.000645	ND		0.000681	ND		0.000638	ND		0.000677
Heptachlor	76-44-8	0.38	ND		0.000398	ND		0.000389	ND		0.000389	ND		0.000381	ND		0.000402	ND		0.000377	ND		0.0004
Aldrin	309-00-2	0.097	ND		0.000625	ND		0.000611	ND		0.000611	ND		0.000599	ND		0.000632	ND		0.000593	ND		0.000629
Heptachlor epoxide	1024-57-3	NA	ND		0.000999	ND		0.000976	ND		0.000977	ND		0.000957	ND		0.00101	ND		0.000947	ND		0.001
Endrin	72-20-8	0.06	ND		0.000303	0.000574	JPI	0.000296	ND		0.000297	ND		0.000291	ND		0.000307	ND		0.000288	ND		0.000305
Endrin aldehyde	7421-93-4	NA	ND		0.000777	ND		0.000759	ND		0.00076	ND		0.000744	ND		0.000786	ND		0.000736	ND		0.000781
Endrin ketone	53494-70-5	NA	ND		0.000457	ND		0.000447	ND		0.000447	ND		0.000438	ND		0.000462	ND		0.000433	ND		0.00046
Dieldrin	60-57-1	0.1	ND		0.000555	0.000801	J	0.000542	ND		0.000543	ND		0.000532	ND		0.000561	0.0007	J	0.000526	ND		0.000558
4,4'-DDE	72-55-9	8.9	0.00162	J	0.000411	0.00297		0.000401	0.00127	J	0.000402	0.000481	J	0.000393	0.00063	J	0.000415	0.00294	P	0.000389	0.000914	J	0.000413
4,4'-DDD	72-54-8	13	0.00436		0.000633	0.00114	J	0.000619	0.00128	J	0.000619	ND		0.000607	ND		0.00064	0.00112	J	0.0006	0.00132	J	0.000637
4,4'-DDT	50-29-3	7.9	0.0185		0.00143	0.01	P	0.0014	0.00279	J	0.0014	ND		0.00137	ND		0.00144	0.0129		0.00135	0.0051		0.00144
Endosulfan I	959-98-8	24	ND		0.000419	ND		0.00041	ND		0.00041	ND		0.000402	ND		0.000424	ND		0.000398	ND		0.000422
Endosulfan II	33213-65-9	24	ND		0.000593	ND		0.00058	ND		0.00058	ND		0.000568	ND		0.0006	ND		0.000562	ND		0.000597
Endosulfan sulfate	1031-07-8	24	ND		0.000352	ND		0.000344	ND		0.000344	ND		0.000337	ND		0.000356	ND		0.000334	ND		0.000354
Methoxychlor	72-43-5	NA	ND		0.00104	ND		0.00101	ND		0.00101	ND		0.000992	ND		0.00105	ND		0.000982	ND		0.00104
Toxaphene	8001-35-2	NA	ND		0.00932	ND		0.00911	ND		0.00912	ND		0.00893	ND		0.00943	ND		0.00884	ND		0.00938
cis-Chlordane	5103-71-9	2.9	0.00232	P	0.000618	0.00118	J	0.000605	0.000785	J	0.000605	ND		0.000592	0.000683	J	0.000626	0.000606	J	0.000586	ND		0.000622
trans-Chlordane	5103-74-2	NA	ND		0.000586	ND		0.000573	ND		0.000573	ND		0.000561	ND		0.000593	ND		0.000555	ND		0.000589
Chlordane	57-74-9	NA	ND		0.00588	ND		0.00575	ND		0.00575	ND		0.00564	ND		0.00595	ND		0.00558	ND		0.00592
POLYCHLORINATED BIPHENYLS BY GC																							
Aroclor 1016	12674-11-2	1	ND		0.00416	ND		0.00417	ND		0.00417	ND		0.00407	ND		0.00433	ND		0.00408	ND		0.00426
Aroclor 1221	11104-28-2	1	ND		0.00559	ND		0.00559	ND		0.00559	ND		0.00546	ND		0.00581	ND		0.00548	ND		0.00572
Aroclor 1232	11141-16-5	1	ND		0.00361	ND		0.00362	ND		0.00362	ND		0.00353	ND		0.00375	ND		0.00354	ND		0.0037
Aroclor 1242	53469-21-9	1	0.0431		0.0045	ND		0.0045	ND		0.0045	ND		0.00439	ND		0.00467	ND		0.0044	ND		0.0046
Aroclor 1248	12672-29-6	1	ND		0.00412	ND		0.00412	ND		0.00412	ND		0.00402	ND		0.00428	ND		0.00404	ND		0.00422
Aroclor 1254	11097-69-1	1	0.0103	J	0.003	0.00585	J	0.003	0.00301	J	0.003	ND		0.00293	ND		0.00311	ND		0.00294	ND		0.00307
Aroclor 1260	11096-82-5	1	ND		0.00383	ND		0.00384	ND		0.00384	ND		0.00374	ND		0.00398	ND		0.00376	ND		0.00393
Aroclor 1262	37324-23-5	1	ND		0.00302	ND		0.00302	ND		0.00302	ND		0.00295	ND		0.00314	ND		0.00296	ND		0.00309
Aroclor 1268	11100-14-4	1	ND		0.0026	ND		0.0026	ND		0.0026	ND		0.00254	ND		0.0027	ND		0.00255	ND		0.00266
PCBs, Total	1336-36-3	1	0.0534	J	0.0026	0.00585	J	0.0026	0.00301	J	0.0026	ND		0.00254	ND		0.0027	ND		0.00255	ND		0.00266
GENERAL CHEMISTRY																							
Solids, Total	NONE	NA	87.6		NA	87.9		NA	88.6		NA	90.9		NA	84.1		NA	90.7		NA	87.5		NA
Cyanide, Total	57-12-5	27	ND		0.24	ND		0.23	ND		0.23	ND		0.21	ND		0.24	ND		0.22	ND		0.22

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of
I - The lower value for the two columns has been reported due to obvious interference.

P - The RPD between the results for the two columns exceeds the method-specified criteria.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 4 - Herbicides, Pesticides, and PCBs
May 2018

		SAMPLE ID:	TP-11A_COMP			TP-11B_COMP			TP-13A_COMP			TP-13B_COMP			TP-15A_COMP			TP-15B_COMP			TP-16_COMP		
		DEPTH INTERVAL																					
		LAB ID:	L1815750-03			L1815750-06			L1815750-09			L1815750-12			L1815750-15			L1815750-18			L1815750-21		
		COLLECTION DATE:	5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc (mg/kg)	Q	MDL (mg/kg)	Conc	Q	MDL	Conc	Q	MDL
CHLORINATED HERBICIDES BY GC																							
2,4-D	94-75-7	NA	ND		0.0115	ND		0.0112	ND		0.012	ND		0.0115	ND		0.0115	ND		0.0113	ND		0.0111
2,4,5-T	93-76-5	NA	ND		0.00566	ND		0.00554	ND		0.00589	ND		0.00566	ND		0.00567	ND		0.00557	ND		0.00546
2,4,5-TP (Silvex)	93-72-1	3.8	ND		0.00486	ND		0.00475	ND		0.00505	ND		0.00486	ND		0.00487	ND		0.00478	ND		0.00469
ORGANOCHLORINE PESTICIDES BY GC																							
Delta-BHC	319-86-8	0.25	ND		0.00033	ND		0.000339	ND		0.000357	ND		0.00034	ND		0.000343	ND		0.000342	ND		0.000316
Lindane	58-89-9	0.1	ND		0.000314	ND		0.000323	ND		0.00034	ND		0.000324	ND		0.000326	ND		0.000326	ND		0.0003
Alpha-BHC	319-84-6	0.02	ND		0.0002	ND		0.000205	ND		0.000216	ND		0.000206	ND		0.000207	ND		0.000207	ND		0.000191
Beta-BHC	319-85-7	0.09	ND		0.00064	ND		0.000657	ND		0.000691	ND		0.000659	ND		0.000664	ND		0.000663	ND		0.000612
Heptachlor	76-44-8	0.38	ND		0.000378	ND		0.000388	ND		0.000409	ND		0.00039	ND		0.000392	ND		0.000392	ND		0.000362
Aldrin	309-00-2	0.097	ND		0.000594	ND		0.00061	ND		0.000642	ND		0.000612	ND		0.000616	ND		0.000616	ND		0.000568
Heptachlor epoxide	1024-57-3	NA	ND		0.000949	ND		0.000975	ND		0.00102	ND		0.000978	ND		0.000985	ND		0.000984	ND		0.000907
Endrin	72-20-8	0.06	ND		0.000288	ND		0.000296	ND		0.000312	ND		0.000297	ND		0.000299	ND		0.000299	ND		0.000276
Endrin aldehyde	7421-93-4	NA	ND		0.000738	ND		0.000758	ND		0.000798	ND		0.000761	ND		0.000766	ND		0.000765	ND		0.000706
Endrin ketone	53494-70-5	NA	ND		0.000434	ND		0.000446	ND		0.00047	ND		0.000448	ND		0.000451	ND		0.00045	ND		0.000415
Dieldrin	60-57-1	0.1	ND		0.000527	ND		0.000542	ND		0.00057	ND		0.000543	0.00066	J	0.000547	ND		0.000546	ND		0.000504
4,4'-DDE	72-55-9	8.9	0.00147	J	0.00039	ND		0.000401	0.000989	J	0.000422	0.000574	J	0.000402	0.00101	J	0.000405	0.000947	J	0.000404	ND		0.000373
4,4'-DDD	72-54-8	13	0.000698	J	0.000602	ND		0.000618	ND		0.00065	ND		0.00062	ND		0.000624	ND		0.000624	ND		0.000575
4,4'-DDT	50-29-3	7.9	0.0166		0.00136	0.00272	J	0.00139	0.0032	J	0.00147	0.00158	J	0.0014	0.00296	J	0.00141	0.00416		0.00141	0.00144	JPI	0.0013
Endosulfan I	959-98-8	24	ND		0.000399	ND		0.000409	ND		0.000431	ND		0.000411	ND		0.000414	ND		0.000413	ND		0.000381
Endosulfan II	33213-65-9	24	ND		0.000564	ND		0.000579	ND		0.000609	ND		0.000581	ND		0.000585	ND		0.000584	ND		0.000539
Endosulfan sulfate	1031-07-8	24	ND		0.000335	ND		0.000344	ND		0.000362	ND		0.000345	ND		0.000347	ND		0.000347	ND		0.00032
Methoxychlor	72-43-5	NA	ND		0.000984	ND		0.00101	ND		0.00106	ND		0.00101	ND		0.00102	ND		0.00102	ND		0.000941
Toxaphene	8001-35-2	NA	ND		0.00886	ND		0.0091	ND		0.00957	ND		0.00913	ND		0.00919	ND		0.00918	ND		0.00847
cis-Chlordane	5103-71-9	2.9	ND		0.000588	ND		0.000604	ND		0.000635	ND		0.000606	ND		0.00061	ND		0.000609	ND		0.000562
trans-Chlordane	5103-74-2	NA	ND		0.000557	ND		0.000572	ND		0.000602	ND		0.000574	ND		0.000578	ND		0.000577	ND		0.000532
Chlordane	57-74-9	NA	ND		0.00559	ND		0.00574	ND		0.00604	ND		0.00576	ND		0.0058	ND		0.00579	ND		0.00534
POLYCHLORINATED BIPHENYLS BY GC																							
Aroclor 1016	12674-11-2	1	ND		0.00407	ND		0.00402	ND		0.00438	ND		0.00418	ND		0.00398	ND		0.00411	ND		0.00382
Aroclor 1221	11104-28-2	1	ND		0.00546	ND		0.00539	ND		0.00587	ND		0.00561	ND		0.00535	ND		0.00552	ND		0.00512
Aroclor 1232	11141-16-5	1	ND		0.00353	ND		0.00349	ND		0.0038	ND		0.00363	ND		0.00346	ND		0.00357	ND		0.00331
Aroclor 1242	53469-21-9	1	ND		0.00439	ND		0.00434	ND		0.00472	ND		0.00451	ND		0.0043	ND		0.00444	ND		0.00412
Aroclor 1248	12672-29-6	1	ND		0.00403	ND		0.00398	ND		0.00433	ND		0.00414	ND		0.00394	ND		0.00407	ND		0.00378
Aroclor 1254	11097-69-1	1	ND		0.00293	0.0111	J	0.00289	ND		0.00315	ND		0.00301	0.00953	J	0.00287	ND		0.00296	ND		0.00275
Aroclor 1260	11096-82-5	1	ND		0.00375	0.00735	J	0.0037	0.0054	J	0.00403	ND		0.00385	0.0118	J	0.00367	ND		0.00378	0.00445	J	0.00351
Aroclor 1262	37324-23-5	1	ND		0.00295	ND		0.00291	ND		0.00317	ND		0.00303	ND		0.00289	ND		0.00298	ND		0.00277
Aroclor 1268	11100-14-4	1	ND		0.00254	ND		0.00251	ND		0.00273	0.00348	J	0.00261	ND		0.00249	ND		0.00257	ND		0.00238
PCBs, Total	1336-36-3	1	ND		0.00254	0.0185	J	0.00251	0.0054	J	0.00273	0.00348	J	0.00261	0.0213	J	0.00249	ND		0.00257	0.00445	J	0.00238
GENERAL CHEMISTRY																							
Solids, Total	NONE	NA	90.3		NA	90.4		NA	85.4		NA	89		NA	89.7		NA	91		NA	93.3		NA
Cyanide, Total	57-12-5	27	ND		0.22	ND		0.23	ND		0.23	ND		0.22	ND		0.23	ND		0.22	ND		0.22

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of
I - The lower value for the two columns has been reported due to obvious interference.

P - The RPD between the results for the two columns exceeds the method-specified criteria.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 4 - Herbicides, Pesticides, and PCBs
May 2018

		SAMPLE ID:	TP-17A_COMP			TP-17B_COMP			TP-18A_COMP			TP-18B_COMP			TP-19A_COMP			TP-19B_COMP			TP-21_COMP		
		DEPTH INTERVAL																					
		LAB ID:	L1815750-24			L1815750-27			L1815750-30			L1815750-33			L1815750-36			L1815750-39			L1815750-42		
		COLLECTION DATE:	5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018			5/2/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
CHLORINATED HERBICIDES BY GC																							
2,4-D	94-75-7	NA	ND		0.0121	ND		0.0117	ND		0.0117	ND		0.0116	ND		0.0114	ND		0.0118	ND		0.0114
2,4,5-T	93-76-5	NA	ND		0.00593	ND		0.00578	ND		0.00576	ND		0.0057	ND		0.00559	ND		0.00581	ND		0.00559
2,4,5-TP (Silvex)	93-72-1	3.8	ND		0.00509	ND		0.00496	ND		0.00494	ND		0.00489	ND		0.0048	ND		0.00499	ND		0.0048
ORGANOCHLORINE PESTICIDES BY GC																							
Delta-BHC	319-86-8	0.25	ND		0.00036	ND		0.000348	ND		0.000346	ND		0.000331	ND		0.000332	ND		0.000351	ND		0.000339
Lindane	58-89-9	0.1	ND		0.000343	ND		0.000331	ND		0.00033	ND		0.000315	ND		0.000315	ND		0.000334	ND		0.000323
Alpha-BHC	319-84-6	0.02	ND		0.000218	ND		0.00021	ND		0.000209	ND		0.0002	ND		0.0002	ND		0.000212	ND		0.000205
Beta-BHC	319-85-7	0.09	ND		0.000698	ND		0.000674	ND		0.000671	ND		0.000641	ND		0.000642	ND		0.00068	ND		0.000657
Heptachlor	76-44-8	0.38	ND		0.000413	ND		0.000398	ND		0.000397	ND		0.000379	ND		0.00038	ND		0.000402	ND		0.000388
Aldrin	309-00-2	0.097	ND		0.000648	ND		0.000626	ND		0.000623	ND		0.000595	ND		0.000596	ND		0.000631	ND		0.00061
Heptachlor epoxide	1024-57-3	NA	0.00108	J	0.00104	ND		0.000999	ND		0.000995	ND		0.000951	ND		0.000952	ND		0.00101	ND		0.000975
Endrin	72-20-8	0.06	ND		0.000314	ND		0.000304	ND		0.000302	ND		0.000289	ND		0.000289	ND		0.000306	ND		0.000296
Endrin aldehyde	7421-93-4	NA	ND		0.000805	ND		0.000777	ND		0.000774	ND		0.00074	ND		0.000741	ND		0.000784	ND		0.000758
Endrin ketone	53494-70-5	NA	ND		0.000474	ND		0.000458	ND		0.000456	ND		0.000435	ND		0.000436	ND		0.000461	ND		0.000446
Dieldrin	60-57-1	0.1	ND		0.000575	ND		0.000555	ND		0.000553	ND		0.000528	ND		0.000529	0.000855	J	0.00056	0.000836	J	0.000542
4,4'-DDE	72-55-9	8.9	0.00233		0.000426	ND		0.000411	0.00077	J	0.000409	0.00149	J	0.000391	0.000544	J	0.000392	ND		0.000414	ND		0.000401
4,4'-DDD	72-54-8	13	0.00111	J	0.000656	ND		0.000634	ND		0.000631	ND		0.000603	ND		0.000604	ND		0.000639	ND		0.000618
4,4'-DDT	50-29-3	7.9	ND		0.00148	ND		0.00143	0.00173	J	0.00142	0.003	JPI	0.00136	0.00181	J	0.00136	ND		0.00144	ND		0.00139
Endosulfan I	959-98-8	24	ND		0.000435	ND		0.00042	ND		0.000418	ND		0.000399	ND		0.0004	ND		0.000423	ND		0.000409
Endosulfan II	33213-65-9	24	ND		0.000615	0.00171	JPI	0.000594	ND		0.000591	ND		0.000565	ND		0.000566	ND		0.000599	ND		0.000579
Endosulfan sulfate	1031-07-8	24	ND		0.000365	ND		0.000352	ND		0.000351	ND		0.000335	ND		0.000336	ND		0.000355	ND		0.000344
Methoxychlor	72-43-5	NA	ND		0.00107	ND		0.00104	ND		0.00103	ND		0.000986	ND		0.000988	ND		0.00104	ND		0.00101
Toxaphene	8001-35-2	NA	ND		0.00966	ND		0.00933	ND		0.00929	ND		0.00888	ND		0.00889	ND		0.00941	ND		0.0091
cis-Chlordane	5103-71-9	2.9	0.00182	J	0.000641	ND		0.000619	ND		0.000616	ND		0.000589	ND		0.00059	ND		0.000624	0.00126	J	0.000604
trans-Chlordane	5103-74-2	NA	ND		0.000607	ND		0.000586	ND		0.000584	ND		0.000558	ND		0.000559	ND		0.000591	ND		0.000572
Chlordane	57-74-9	NA	ND		0.0061	ND		0.00588	ND		0.00586	ND		0.0056	ND		0.00561	ND		0.00594	ND		0.00574
POLYCHLORINATED BIPHENYLS BY GC																							
Aroclor 1016	12674-11-2	1	ND		0.00417	ND		0.00424	ND		0.00414	ND		0.00421	ND		0.00393	ND		0.00424	ND		0.00411
Aroclor 1221	11104-28-2	1	ND		0.0056	ND		0.00569	ND		0.00556	ND		0.00565	ND		0.00527	ND		0.0057	ND		0.00551
Aroclor 1232	11141-16-5	1	ND		0.00362	ND		0.00368	ND		0.00359	ND		0.00365	ND		0.00341	ND		0.00368	ND		0.00356
Aroclor 1242	53469-21-9	1	ND		0.0045	ND		0.00458	ND		0.00447	ND		0.00454	ND		0.00424	ND		0.00458	ND		0.00443
Aroclor 1248	12672-29-6	1	ND		0.00413	ND		0.0042	ND		0.0041	ND		0.00417	ND		0.00389	ND		0.0042	ND		0.00406
Aroclor 1254	11097-69-1	1	0.0166	J	0.003	0.00822	J	0.00305	ND		0.00298	0.0154	J	0.00303	0.00564	J	0.00283	0.0225	J	0.00305	ND		0.00296
Aroclor 1260	11096-82-5	1	0.0104	J	0.00384	0.00631	J	0.0039	ND		0.00381	0.012	J	0.00388	ND		0.00362	0.0255	J	0.00391	ND		0.00378
Aroclor 1262	37324-23-5	1	ND		0.00302	ND		0.00307	ND		0.003	ND		0.00305	ND		0.00285	ND		0.00308	ND		0.00298
Aroclor 1268	11100-14-4	1	ND		0.0026	ND		0.00265	ND		0.00258	ND		0.00263	ND		0.00245	ND		0.00265	ND		0.00256
PCBs, Total	1336-36-3	1	0.027	J	0.0026	0.0145	J	0.00265	ND		0.00258	0.0274	J	0.00263	0.00564	J	0.00245	0.048	J	0.00265	ND		0.00256
GENERAL CHEMISTRY																							
Solids, Total	NONE	NA	86		NA	87.6		NA	89.7		NA	89.4		NA	90.8		NA	87.7		NA	91.1		NA
Cyanide, Total	57-12-5	27	ND		0.24	ND		0.23	ND		0.23	ND		0.22	ND		0.22	ND		0.22	ND		0.21

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of
I - The lower value for the two columns has been reported due to obvious interference.

P - The RPD between the results for the two columns exceeds the method-specified criteria.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 4 - Herbicides, Pesticides, and PCBs
May 2018

		SAMPLE ID:	TPX-_050218-C			TP-23_COMP			TP-24_COMP			TP-25_COMP			TP-26_COMP			TP-27_COMP			TP-29_COMP		
		DEPTH INTERVAL																					
		LAB ID:	L1815750-44			L1815928-03			L1815928-06			L1815928-09			L1815928-12			L1815928-15			L1815928-18		
		COLLECTION DATE:	5/2/2018			5/3/2018			5/3/2018			5/3/2018			5/3/2018			5/3/2018			5/3/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
CHLORINATED HERBICIDES BY GC																							
2,4-D	94-75-7	NA	ND		0.0115	ND		0.0108	ND		0.0112	ND		0.0117	ND		0.0113	ND		0.0111	ND		0.0119
2,4,5-T	93-76-5	NA	ND		0.00566	ND		0.00534	ND		0.0055	ND		0.00574	ND		0.00555	ND		0.00548	ND		0.00586
2,4,5-TP (Silvex)	93-72-1	3.8	ND		0.00485	ND		0.00458	ND		0.00472	ND		0.00493	ND		0.00476	ND		0.0047	ND		0.00503
ORGANOCHLORINE PESTICIDES BY GC																							
Delta-BHC	319-86-8	0.25	ND		0.000341	ND		0.000328	ND		0.000323	ND		0.000345	ND		0.000326	ND		0.000332	ND		0.000341
Lindane	58-89-9	0.1	ND		0.000324	ND		0.000312	ND		0.000307	ND		0.000328	ND		0.00031	ND		0.000316	ND		0.000324
Alpha-BHC	319-84-6	0.02	ND		0.000206	ND		0.000198	ND		0.000195	ND		0.000209	ND		0.000197	ND		0.000201	ND		0.000206
Beta-BHC	319-85-7	0.09	ND		0.00066	ND		0.000635	ND		0.000626	ND		0.000669	ND		0.000631	ND		0.000643	ND		0.00066
Heptachlor	76-44-8	0.38	ND		0.00039	ND		0.000375	ND		0.00037	ND		0.000395	ND		0.000373	ND		0.00038	ND		0.00039
Aldrin	309-00-2	0.097	ND		0.000613	ND		0.000589	ND		0.000581	ND		0.000621	ND		0.000586	ND		0.000597	ND		0.000612
Heptachlor epoxide	1024-57-3	NA	ND		0.000979	ND		0.000942	ND		0.000928	ND		0.000992	ND		0.000936	ND		0.000954	ND		0.000979
Endrin	72-20-8	0.06	ND		0.000297	ND		0.000286	ND		0.000282	ND		0.000301	ND		0.000284	ND		0.00029	ND		0.000297
Endrin aldehyde	7421-93-4	NA	ND		0.000761	ND		0.000732	ND		0.000722	ND		0.000771	ND		0.000728	ND		0.000742	ND		0.000761
Endrin ketone	53494-70-5	NA	ND		0.000448	ND		0.000431	ND		0.000425	ND		0.000454	ND		0.000428	ND		0.000437	ND		0.000448
Dieldrin	60-57-1	0.1	ND		0.000544	ND		0.000523	ND		0.000516	ND		0.000551	ND		0.00052	ND		0.00053	ND		0.000544
4,4'-DDE	72-55-9	8.9	0.000748	J	0.000402	ND		0.000387	ND		0.000382	0.00105	J	0.000408	ND		0.000385	ND		0.000392	0.000521	J	0.000402
4,4'-DDD	72-54-8	13	ND		0.000621	ND		0.000597	ND		0.000588	ND		0.000629	ND		0.000593	ND		0.000605	0.00175		0.00062
4,4'-DDT	50-29-3	7.9	0.00217	J	0.0014	0.00298	J	0.00135	0.00175	J	0.00133	ND		0.00142	0.00651	P	0.00134	0.00289	JPI	0.00136	0.00271	J	0.0014
Endosulfan I	959-98-8	24	ND		0.000411	ND		0.000396	ND		0.00039	ND		0.000416	ND		0.000393	ND		0.000401	ND		0.000411
Endosulfan II	33213-65-9	24	ND		0.000582	ND		0.000559	ND		0.000551	ND		0.000589	ND		0.000556	ND		0.000567	ND		0.000581
Endosulfan sulfate	1031-07-8	24	ND		0.000345	ND		0.000332	ND		0.000327	ND		0.00035	ND		0.00033	ND		0.000336	ND		0.000345
Methoxychlor	72-43-5	NA	ND		0.00102	ND		0.000977	ND		0.000962	ND		0.00103	ND		0.000971	ND		0.000989	ND		0.00101
Toxaphene	8001-35-2	NA	ND		0.00914	ND		0.00879	ND		0.00866	ND		0.00926	ND		0.00874	ND		0.0089	ND		0.00913
cis-Chlordane	5103-71-9	2.9	ND		0.000606	ND		0.000583	ND		0.000575	ND		0.000614	ND		0.00058	ND		0.000591	ND		0.000606
trans-Chlordane	5103-74-2	NA	ND		0.000574	ND		0.000552	ND		0.000544	ND		0.000582	ND		0.000549	ND		0.00056	ND		0.000574
Chlordane	57-74-9	NA	ND		0.00576	ND		0.00554	ND		0.00546	ND		0.00584	ND		0.00551	ND		0.00562	ND		0.00576
POLYCHLORINATED BIPHENYLS BY GC																							
Aroclor 1016	12674-11-2	1	ND		0.00418	ND		0.00402	ND		0.00401	ND		0.00402	ND		0.00409	ND		0.00403	ND		0.00427
Aroclor 1221	11104-28-2	1	ND		0.00561	ND		0.00539	ND		0.00539	ND		0.00539	ND		0.00549	ND		0.00541	ND		0.00573
Aroclor 1232	11141-16-5	1	ND		0.00363	ND		0.00349	ND		0.00348	ND		0.00349	ND		0.00355	ND		0.0035	ND		0.00371
Aroclor 1242	53469-21-9	1	ND		0.00451	ND		0.00434	ND		0.00433	ND		0.00434	ND		0.00442	ND		0.00435	ND		0.00461
Aroclor 1248	12672-29-6	1	ND		0.00414	ND		0.00398	ND		0.00397	ND		0.00398	ND		0.00405	ND		0.00399	ND		0.00423
Aroclor 1254	11097-69-1	1	0.0116	J	0.00301	ND		0.00289	0.00596	J	0.00289	ND		0.00289	0.00456	J	0.00294	ND		0.0029	0.0108	J	0.00307
Aroclor 1260	11096-82-5	1	0.00664	J	0.00385	0.005	J	0.0037	0.00562	J	0.00369	0.00852	J	0.0037	ND		0.00377	0.0306	J	0.00371	0.00729	J	0.00393
Aroclor 1262	37324-23-5	1	ND		0.00303	ND		0.00291	ND		0.00291	ND		0.00291	ND		0.00297	ND		0.00292	ND		0.0031
Aroclor 1268	11100-14-4	1	ND		0.00261	ND		0.00251	ND		0.0025	0.00544	J	0.00251	ND		0.00256	ND		0.00252	ND		0.00267
PCBs, Total	1336-36-3	1	0.0182	J	0.00261	0.005	J	0.00251	0.0116	J	0.0025	0.014	J	0.00251	0.00456	J	0.00256	0.0306	J	0.00252	0.0181	J	0.00267
GENERAL CHEMISTRY																							
Solids, Total	NONE	NA	90.3		NA	94		NA	92.7		NA	89.6		NA	91		NA	92.3		NA	88.2		NA
Cyanide, Total	57-12-5	27	ND		0.22	ND		0.21	ND		0.23	ND		0.23	ND		0.23	ND		0.21	ND		0.24

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of
I - The lower value for the two columns has been reported due to obvious interference.

P - The RPD between the results for the two columns exceeds the method-specified criteria.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

Extell Former BICC
Attachment C - Test Pit Sample Results Summary Table 4 - Herbicides, Pesticides, and PCBs
May 2018

		SAMPLE ID:	TP-30_COMP			TP-31_COMP			TP-32_COMP			TP-X-050415-C		
		DEPTH INTERVAL												
		LAB ID:	L1816155-03			L1816155-06			L1816155-09			L1816155-11		
		COLLECTION DATE:	5/4/2018			5/4/2018			5/4/2018			5/4/2018		
		SAMPLE MATRIX:	SOIL			SOIL			SOIL			SOIL		
ANALYTE	CAS	NY-DER10-RRU (mg/kg)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
CHLORINATED HERBICIDES BY GC														
2,4-D	94-75-7	NA	ND		0.0116	ND		0.0115	ND		0.0111	ND		0.0114
2,4,5-T	93-76-5	NA	ND		0.00571	ND		0.00567	ND		0.00545	ND		0.0056
2,4,5-TP (Silvex)	93-72-1	3.8	ND		0.0049	ND		0.00487	ND		0.00468	ND		0.00481
ORGANOCHLORINE PESTICIDES BY GC														
Delta-BHC	319-86-8	0.25	ND		0.000344	ND		0.000338	ND		0.000329	ND		0.000332
Lindane	58-89-9	0.1	ND		0.000327	ND		0.000322	ND		0.000313	ND		0.000316
Alpha-BHC	319-84-6	0.02	ND		0.000208	ND		0.000204	ND		0.000199	ND		0.000201
Beta-BHC	319-85-7	0.09	ND		0.000666	ND		0.000655	ND		0.000637	ND		0.000643
Heptachlor	76-44-8	0.38	ND		0.000394	ND		0.000387	ND		0.000377	ND		0.00038
Aldrin	309-00-2	0.097	ND		0.000618	ND		0.000608	ND		0.000592	ND		0.000597
Heptachlor epoxide	1024-57-3	NA	ND		0.000988	0.00114	J	0.000972	ND		0.000946	ND		0.000954
Endrin	72-20-8	0.06	ND		0.0003	ND		0.000295	ND		0.000287	ND		0.00029
Endrin aldehyde	7421-93-4	NA	ND		0.000768	ND		0.000756	ND		0.000736	ND		0.000742
Endrin ketone	53494-70-5	NA	ND		0.000452	ND		0.000445	ND		0.000433	ND		0.000437
Dieldrin	60-57-1	0.1	ND		0.000549	0.00105	J	0.00054	ND		0.000525	0.000748	J	0.00053
4,4'-DDE	72-55-9	8.9	0.000639	J	0.000406	0.00125	J	0.0004	ND		0.000389	0.00117	J	0.000392
4,4'-DDD	72-54-8	13	0.00135	J	0.000626	0.00517		0.000616	ND		0.0006	0.00282		0.000605
4,4'-DDT	50-29-3	7.9	ND		0.00141	0.00204	J	0.00139	ND		0.00135	0.0019	J	0.00136
Endosulfan I	959-98-8	24	ND		0.000415	ND		0.000408	ND		0.000397	ND		0.0004
Endosulfan II	33213-65-9	24	ND		0.000587	0.00134	J	0.000577	ND		0.000562	0.00131	J	0.000566
Endosulfan sulfate	1031-07-8	24	ND		0.000348	ND		0.000343	ND		0.000333	ND		0.000336
Methoxychlor	72-43-5	NA	ND		0.00102	ND		0.00101	ND		0.000981	ND		0.000989
Toxaphene	8001-35-2	NA	ND		0.00922	ND		0.00907	ND		0.00883	ND		0.0089
cis-Chlordane	5103-71-9	2.9	0.000896	J	0.000612	0.00249		0.000602	ND		0.000586	0.00233		0.000591
trans-Chlordane	5103-74-2	NA	ND		0.000579	0.00142	JPI	0.00057	ND		0.000555	0.00128	JPI	0.00056
Chlordane	57-74-9	NA	0.0221	P	0.00582	0.0178	PI	0.00572	ND		0.00557	0.0152	PI	0.00562
POLYCHLORINATED BIPHENYLS BY GC														
Aroclor 1016	12674-11-2	1	ND		0.00399	ND		0.00411	ND		0.00401	ND		0.00416
Aroclor 1221	11104-28-2	1	ND		0.00536	ND		0.00551	ND		0.00538	ND		0.00558
Aroclor 1232	11141-16-5	1	ND		0.00346	ND		0.00356	ND		0.00348	ND		0.00361
Aroclor 1242	53469-21-9	1	ND		0.00431	ND		0.00443	ND		0.00433	ND		0.00449
Aroclor 1248	12672-29-6	1	ND		0.00395	ND		0.00406	ND		0.00397	ND		0.00412
Aroclor 1254	11097-69-1	1	0.0117	J	0.00287	0.00854	J	0.00296	0.014	J	0.00289	0.00615	J	0.00299
Aroclor 1260	11096-82-5	1	0.00775	J	0.00367	0.017	J	0.00378	ND		0.00369	0.0106	J	0.00383
Aroclor 1262	37324-23-5	1	ND		0.00289	ND		0.00298	ND		0.00291	ND		0.00302
Aroclor 1268	11100-14-4	1	ND		0.00249	ND		0.00256	ND		0.0025	ND		0.0026
PCBs, Total	1336-36-3	1	0.0195	J	0.00249	0.0255	J	0.00256	0.014	J	0.0025	0.0168	J	0.0026
GENERAL CHEMISTRY														
Solids, Total	NONE	NA	89.7		NA	89.5		NA	92.4		NA	89.7		NA
Cyanide, Total	57-12-5	27	ND		0.23	ND		0.23	ND		0.22	ND		0.24

Legend:
ND - Not Detected
NA - Not Applicable
mg/kg - milligram per kilogram
Q - Data Qualifier
J - Estimated Value (below the RI, above the MDL)
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of
I - The lower value for the two columns has been reported due to obvious interference.

P - The RPD between the results for the two columns exceeds the method-specified criteria.
MDL - Method Detection Limit
Bold and Highlighted - Exceedance of the NY-DER10-RRU
Shaded Gray - Reporting Limit exceeds NY-DER10-RRU

Notes:

1. NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 Technical Guidance for Site Investigation & Remediation issued May 3, 2010.

ATTACHMENT D

Test Pit Logs

Paulus, Sarkowski and Sartor
1 Larkin Plaza, 2nd Floor
Yonkers, New York 10701

TEST PIT NUMBER TP-1A

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/1/18 **COMPLETED** 5/1/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, lt brown fine SAND, some stone and coarse gravel	
						1.0	
			0			Dry, lt brown fine SAND, some stone, little cobbles	Collected sample TP-1A_Grab-1 at 1.5-2 ft BGS at 0725
2.5			0				
			0				
			0			4.0	
			0			Moist, grey-brown fine SAND, some silt, little coarse gravel and cobbles	
5.0			0				Collected sample TP-1A_Grab-2 at 5-5.5 ft BGS at 0735
						6.0	
			0			Moist, grey-brown SILT and SAND, little coarse gravel and cobbles	
7.5			0				Collected sample TP-1A_Grab-3 at 7-7.5 ft BGS at 0740
			0				Collected sample TP-1A_Grab-4 at 8-8.5 ft BGS at 0745
						8.6	Collected sample TP-1A_Comp at 0750
						Bottom of test pit at 8.6 feet.	

ENVIRONMENTAL BH - GINT STD US LAB.GDT - 5/18/18 16:04 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\BICC TEST PITS.GPJ

Paulus, Sarkowski and Sartor
1 Larkin Plaza, 2nd Floor
Yonkers, New York 10701

TEST PIT NUMBER TP-1B

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/1/18 **COMPLETED** 5/1/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, lt brown, fine SAND, some stone and coarse gravel	
			0			1.0 Dry, lt brown, fine SAND, some stone, little cobbles, trace plant matter	
2.5			0				Collected sample TP-1B_Grab-1 at 2.5-3 ft BGS at 0805
			0			4.0 Moist, grey-brown, fine SAND, some silt, little coarse gravel, trace plant matter	
5.0			0				Collected sample TP-1B_Grab-2 at 5.5-6 ft BGS at 0810
			0			7.0 Moist, dk brown SILT and SAND, little coarse gravel and cobbles	
7.5			0				Collected sample TP-1B_Grab-3 at 8.5-9 ft BGS at 0815
			0			9.0 Bottom of test pit at 9.0 feet.	Collected sample TP-1B_Comp at 0825

ENVIRONMENTAL BH - GINT STD US LAB.GDT - 5/18/18 16:04 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\BICC TEST PITS.GPJ

Paulus, Sarkowski and Sartor
1 Larkin Plaza, 2nd Floor
Yonkers, New York 10701

TEST PIT NUMBER TP-2

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 4/30/18 **COMPLETED** 4/30/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, lt brown, fine SAND, some silt, little coarse-to-fine gravel, trace plant matter	
			0				
						2.0	
2.5			0			Dry, brown, medium-to-fine SAND, some stone, little cobbles	
			0			3.5	Collected sample TP-2_Grab-1 at 3-3.5 ft BGS at 1400
						Moist, grey-brown, fine SAND, some silt, little coarse-to-fine gravel and cobbles	
5.0			0				
			0			6.0	
			0			Moist, grey-brown SILT and SAND, some coarse-to-fine gravel and cobbles, trace boulders	
7.5			0				
						8.0	Collected sample TP-2_Grab-2 at 7.5-8 ft BGS at 1410
						Bottom of test pit at 8.0 feet.	Collected sample TP-2_Comp at 1420

ENVIRONMENTAL BH - GINT STD US LAB.GDT - 5/18/18 16:04 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\BICC TEST PITS.GPJ

Paulus, Sarkowski and Sartor
1 Larkin Plaza, 2nd Floor
Yonkers, New York 10701

TEST PIT NUMBER TP-3

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/1/18 **COMPLETED** 5/1/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, brown, fine SAND, little silt and coarse gravel	
			0				
2.5			0				
			0			3.0	
						Dry orange-brown, fine SAND, little silt and coarse gravel	Collected sample TP-3_Grab-1 at 3.5-4 ft BGS at 0840
5.0			0			5.0	
			0			Dry, brown, fine SAND, some silt, little coarse gravel and cobbles	
7.5			0			8.0	
			0			Moist, dk brown SILT and SAND, some coarse gravel and cobbles.	
10.0			0			10.8	Collected sample TP-3_Grab-2 at 10-10.5 ft BGS at 0850
						Bottom of test pit at 10.8 feet.	Collected sample TP-3_Comp at 0900

ENVIRONMENTAL BH - GINT STD US LAB.GDT - 5/18/18 16:04 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\BICC TEST PITS.GPJ

TEST PIT NUMBER TP-4

Paulus, Sarkowski and Sartor
1 Larkin Plaza, 2nd Floor
Yonkers, New York 10701

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/1/18 **COMPLETED** 5/1/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, brown, fine SAND, little silt and gravel, trace plant matter	Collected sample TP-4_Grab-1 at 1-1.5 ft BGS at 0930
2.5			0				
			0				
			0				
			0			3.0 Dry grey, fine SAND, some silt and coarse gravel 4.0	
5.0			0			Dry, red-brown, fine SAND, some silt, little coarse gravel, trace plant matter 5.0	
			0			Dry grey, fine SAND, some silt and coarse gravel 6.0	
7.5			0			Dry brown, fine SAND, some coarse grave, little silt and cobbles 8.0	
			0			Moist, grey-brown SILT and SAND, some coarse gravel and cobbles.	
10.0			0			10.0	Collected sample TP-4_Grab-2 at 9.5-10 ft BGS at 0940

Bottom of test pit at 10.0 feet.

Collected sample TP-4_Comp at 0945

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TEST PIT NUMBER TP-5

Paulus, Sarkowski and Sartor
1 Larkin Plaza, 2nd Floor
Yonkers, New York 10701

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/1/18 **COMPLETED** 5/1/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, grey, fine SAND, some fine gravel, little coarse gravel	
			0				Collected sample TP-5A_Grab-1 at 1.5-2 ft BGS at 1020
2.5			0				
						3.0	
			0			Dry, brown, fine SAND, some stone, little cobbles, trace debris and plant matter	
			0				Collected sample TP-5A_Grab-2 at 3.5-4 ft BGS at 1030
5.0							
			0				Collected sample TP-5A_Comp at 1045
						6.0	
			0			Moist, brown, fine SAND, some silt, little coarse gravel and cobbles	
							Collected sample TP-5B_Grab-1 at 6.5-7 ft BGS at 1025
7.5			0				
			0			9.0	
			0			Moist, dk brown SILT and SAND, some coarse gravel and cobbles	
10.0							Collected sample TP-5B_Grab-2 at 10-10.5 ft BGS at 1035
			0			10.6	Collected sample TP-5B_Comp at 1050
						Bottom of test pit at 10.6 feet.	

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Paulus, Sarkowski and Sartor
1 Larkin Plaza, 2nd Floor
Yonkers, New York 10701

TEST PIT NUMBER TP-6

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/1/18 **COMPLETED** 5/1/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, lt brown, fine SAND, little silt and coarse gravel, trace debris	
			0				
2.5			0				Collected sample TP-6_Grab-1 at 2.5-3 ft BGS at 1105
			0			3.0 Dry, grey-brown, fine SAND, some coarse grave and cobbles, little silt	
			0				
5.0			0				
			0				
			0			7.0 Dry, grey-brown, SILT and SAND, some coarse gravel, little cobbles	
7.5			0				
			0				Collected sample TP-6_Grab-2 at 9-9.5 ft BGS at 1115
			0			9.6 Bottom of test pit at 9.6 feet.	Collected sample TP-6_Comp at 1125

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Paulus, Sarkowski and Sartor
1 Larkin Plaza, 2nd Floor
Yonkers, New York 10701

TEST PIT NUMBER TP-7

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 4/30/18 **COMPLETED** 4/30/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0							
			0			Dry, grey-brown, fine SAND and SILT, little cobbles, trace boulders	
						0.5	
			0			Dry, red-brown, SILT and SAND, little gravel	
			0				Collected sample TP-7A_Grab-1 at 1.5-2 ft BGS at 1305
2.5			0				
						3.0	
			0			Dry, brown, fine SAND, some silt, little gravel	
			0			4.5	
5.0						Dry, grey, fine SAND, some cobbles, little gravel	Collected sample TP-7A_Grab-2 at 4.5-5 ft BGS at 1315
			0				Collected sample TP-7A_Comp at 1330
						6.0	
			0			Moist, dk brown, fine SAND and SILT, some coarse-to-fine gravel, little cobbles, trace boulders	
7.5			0				
			0				Collected sample TP-7B_Grab-1 at 8-8.5 ft BGS at 1320
			0				Collected sample TP-7B_Grab-2 at 9.5-10 ft BGS at 1325
10.0							Collected sample TP-7B_Comp at 1335
						10.3	
						Bottom of test pit at 10.3 feet.	

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Paulus, Sarkowski and Sartor
1 Larkin Plaza, 2nd Floor
Yonkers, New York 10701

TEST PIT NUMBER TP-8

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/1/18 **COMPLETED** 5/1/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, brown, fine SAND, little silt and coarse gravel	
			0				
						2.0	Collected sample TP-8_Grab-1 at 1.5-2 ft BGS at 1140
2.5			0			Dry, red-brown, fine SAND, some coarse gravel, little silt	
			0			4.0	
			0			Dry, brown, medium-to-fine SAND, little silt and coarse gravel, some cobbles and coarse gravel	
5.0			0			6.0	
			0			Dry, grey, crushed STONE and SAND, some cobbles and gravel, trace boulders	
7.5			0				
			0			9.0	Collected sample TP-8_Grab-2 at 8.5-9 ft BGS at 1150
						Bottom of test pit at 9.0 feet.	Collected sample TP-8_Comp at 1155

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1 Larkin Plaza, 2nd Floor
Yonkers, New York 10701

TEST PIT NUMBER TP-9

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/1/18 **COMPLETED** 5/1/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, grey-brown, fine SAND, little silt and gravel	Collected sample TP-9A_Grab-1 at 1.5-2 ft BGS at 1210
2.5			0				
			0			3.0 Dry, orange-grey, fine SAND, little silt, trace gravel	Collected sample TP-9A_Grab-2 at 4.5-5 ft BGS at 1250
5.0			0			5.0 Moist, brown, fine SAND, some silt and gravel	Collected sample TP-9A_Comp at 1310
			0			7.0 Moist, brown SILT, some gravel and cobbles, little medium-to-fine sand	Collected sample TP-9B_Grab-1 at 7.5-8 ft BGS at 1255
7.5			0				
			0			9.5 Wet, COBBLES, little boulders, trace sand and silt	Collected sample TP-9B_Grab-2 at 10.5-11 ft BGS at 1300
10.0			0			11.0 Bottom of test pit at 11.0 feet.	Collected sample TP-7B_Comp at 1315

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TEST PIT NUMBER TP-10

Paulus, Sarkowski and Sartor
1 Larkin Plaza, 2nd Floor
Yonkers, New York 10701

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/1/18 **COMPLETED** 5/1/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, grey-brown, fine SAND, little silt and gravel	
			0				Collected sample TP-10A_Grab-1 at 1.5-2 ft BGS at 1330
2.5			0				
			0				
			0			4.0	
			0			Dry, red-brown, medium-to-fine SAND, some silt, little gravel	
5.0			0				Collected sample TP-10A_Grab-2 at 5-5.5 ft BGS at 1335
			0				Collected sample TP-10A_Comp at 1400
			0			7.0	
7.5			0			Moist, brown, SAND and SILT, some gravel and cobbles, trace debris	Collected sample TP-10B_Grab-1 at 7-7.5 ft BGS at 1340
			0				
			0				
10.0			0				
			0				
			0			12.0	
12.5			0			Wet, grey-brown, medium-to-fine SAND, some gravel and cobbles, little silt	
			0				Collected sample TP-10B_Grab-2 at 13.5-14 ft BGS at 1350
						14.0	
						Bottom of test pit at 14.0 feet.	Collected sample TP-10B_Comp at 1405

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Paulus, Sarkowski and Sartor
1 Larkin Plaza, 2nd Floor
Yonkers, New York 10701

TEST PIT NUMBER TP-11

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/2/18 **COMPLETED** 5/2/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, grey-brown, fine SAND, little silt and gravel	
			0				Collected sample TP-11A_Grab-1 at 1.5-2 ft BGS at 0725
2.5			0				
			0				
						4.0	
			0			Dry, red-brown, medium-to-fine SAND, some silt, little gravel	
5.0							Collected sample TP-11A_Grab-2 at 4.5-5 ft BGS at 0730
			0			5.5	
						Dry, brown, SILT and SAND, some coarse gravel, little cobbles	Collected sample TP-11A_Comp at 0755
			0				Collected sample TP-11B_Grab-1 at 6.5-7 ft BGS at 0735
						7.0	
7.5			0			Moist, grey-brown, SILT and SAND, some coarse gravel, little cobbles	
			0				
						9.0	
			0			Moist, dk brown, medium-to-fine SAND, some gravel, little silt and cobbles, trace boulders	
10.0							
			0				
			0				
12.5			0				Collected sample TP-11B_Grab-2 at 12.5-13 ft BGS at 0740
						13.0	
						Bottom of test pit at 13.0 feet.	Collected sample TP-11B_Comp at 0800. Duplicate samples TP-X-050218-G and TP-X-050218-C collected at this location

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Paulus, Sarkowski and Sartor
1 Larkin Plaza, 2nd Floor
Yonkers, New York 10701

TEST PIT NUMBER TP-12

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 4/30/18 **COMPLETED** 4/30/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, grey-brown, fine SAND, some silt, little fine gravel	Odor detected at 0.5-1 ft BGS. Collected sample TP-12_Grab-1 at 0.5-1 ft BGS at 1010
			0				
2.5			0				
			0				
						3.5	
						Dry, lt brown, medium-to-fine SAND, some silt, little coarse-to-fine gravel	
			0				
5.0						5.0	
			0			Moist, grey-brown, SAND and GRAVEL, some cobbles, little silt	
			0				
						7.0	
7.5			0			Wet, dk brown, medium-to-fine SAND, some gravel and cobbles, little silt	
			0				Collected sample TP-12_Grab-2 at 8.5-9 ft BGS at 1030
						9.0	
						Bottom of test pit at 9.0 feet.	Collected sample TP-12_Comp at 1040

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Paulus, Sarkowski and Sartor
1 Larkin Plaza, 2nd Floor
Yonkers, New York 10701

TEST PIT NUMBER TP-13

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/2/18 **COMPLETED** 5/2/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES Odor detected, no PID reading above 0 ppm
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, grey-brown, fine SAND, little crushed stone and gravel	
			0				Collected sample TP-13A_Grab-1 at 1-1.5 ft BGS at 0825
2.5			0			2.5	
			0			Dry, brown, fine SAND, some gravel, little silt and cobbles	
			0				Collected sample TP-13A_Grab-2 at 4.5-5 ft BGS at 0830
5.0			0			5.0	
			0			Dry, red-brown, medium-to-fine SAND, some gravel, little silt and cobbles	Collected sample TP-13A_Comp at 0855
			0				Collected sample TP-13B_Grab-1 at 6.5-7 ft BGS at 0835
7.5			0			7.0 Moist, dk brown, SAND and SILT, some cobbles and coarse gravel, trace boulders	
			0				
			0				
10.0			0			10.0 Moist, brown, SAND and GRAVEL, some cobbles, little boulders and silt	
			0				
12.5			0				Collected sample TP-13B_Grab-2 at 12.5-13 ft BGS at 0840
						13.0 Bottom of test pit at 13.0 feet.	Collected sample TP-13B_Comp at 0900

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TEST PIT NUMBER TP-14

Paulus, Sarkowski and Sartor
1 Larkin Plaza, 2nd Floor
Yonkers, New York 10701

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 4/30/18 **COMPLETED** 4/30/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, lt brown, fine SAND and SILT, little coarse-to-fine gravel and cobbles, trace debris and plant matter	
			0				Collected sample TP-14A_Grab-1 at 1.5-2 ft BGS at 1140
2.5			0				
			0				
						4.0	
			0			Dry, grey, fine SAND, some cobbles, little gravel and silt, trace boulders	
5.0			0				Collected sample TP-14A_Grab-2 at 5-5.5 ft BGS at 1150
						6.0	Collected sample TP-14A_Comp at 1205
			0			Moist, brown, SAND and GRAVEL, little cobbles and silt	
7.5			0				
			0				
			0				
10.0						10.0	Collected sample TP-14B_Grab-1 at 9.5-10 ft BGS at 1200
			0			Wet, grey, medium-to-fine SAND, some silt, little cobbles and coarse-to-fine gravel, trace boulders	
			0				
12.5			0				
						13.0	Collected sample TP-14B_Grab-2 at 12.5-13 ft BGS at 1215
						Bottom of test pit at 13.0 feet.	Collected sample TP-14B_Comp at 1220

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TEST PIT NUMBER TP-15

Paulus, Sarkowski and Sartor
1 Larkin Plaza, 2nd Floor
Yonkers, New York 10701

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/2/18 **COMPLETED** 5/2/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, grey-brown, fine SAND, little gravel and silt	
						1.0	
			0			Dry, brown, fine SAND, some silt, little gravel, trace debris	Collected sample TP-15A_Grab-1 at 1-1.5 ft BGS at 0920
2.5			0			3.0	
			0			Dry, grey-brown, medium-to-fine SAND, some silt and gravel, trace cobbles	
			0				
5.0			0			6.0	
			0			Dry, red-brown, medium-to-fine SAND, some gravel, little silt and cobbles	Collected sample TP-15A_Grab-2 at 6.5-7 ft BGS at 0925
7.5			0				Collected sample TP-15A_Comp at 0950
			0				Collected sample TP-15B_Grab-1 at 8.5-9 ft BGS at 0935
10.0			0			10.0	
			0			Dry, grey, SAND, some gravel and cobbles, little silt	
12.5			0				
						14.0	Collected sample TP-15B_Grab-2 at 13.5-14 ft BGS at 0940
						Bottom of test pit at 14.0 feet.	Collected sample TP-15B_Comp at 0955

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Paulus, Sarkowski and Sartor
1 Larkin Plaza, 2nd Floor
Yonkers, New York 10701

TEST PIT NUMBER TP-16

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/2/18 **COMPLETED** 5/2/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, lt brown, fine SAND, some gravel, little silt and cobbles	Collected sample TP-16_Grab-1 at 0.5-1 ft BGS at 1020
			0				
2.0							
			0			Dry, brown, GRAVEL, some cobbles and sand, little silt	
2.5							
			0				
			0				Collected sample TP-16_Grab-2 at 4-4.5 ft BGS at 1025
4.6						Bottom of test pit at 4.6 feet.	Collected sample TP-16_Comp at 1035

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1 Larkin Plaza, 2nd Floor
Yonkers, New York 10701

TEST PIT NUMBER TP-17

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/2/18 **COMPLETED** 5/2/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, lt brown, medium-to-fine SAND, some gravel, little silt and cobbles	
			0				
						2.0	Collected sample TP-17A_Grab-1 at 1.5-2 ft BGS at 1125
2.5			0			Dry, grey-brown, SAND and GRAVEL, little cobbles and silt, trace plant matter	
			0			3.5	
						Dry, brown, SAND and GRAVEL, little cobbles and silt, trace plant matter	Collected sample TP-17A_Grab-2 at 3.5-4 ft BGS at 1130
			0				Collected sample TP-17A_Comp at 1150
5.0						5.0	
			0			Dry, grey, SAND and GRAVEL, some cobbles, little silt	Collected sample TP-17B_Grab-1 at 5.5-6 ft BGS at 1135
			0			6.5	Collected sample TP-17B_Grab-2 at 6-6.5 ft BGS at 1140
						Bottom of test pit at 6.5 feet.	Collected sample TP-17B_Comp at 1155

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TEST PIT NUMBER TP-18

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/2/18 **COMPLETED** 5/2/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, grey-brown, medium-to-fine SAND, some gravel, little silt and cobbles	Collected sample TP-18A_Grab-1 at 1-1.5 ft BGS at 1215
2.5			0				
			0				
			0				
3.5						COBBLES, some stone and coarse, angular gravel, little boulders	Collected sample TP-18A_Grab-2 at 3.5-4 ft BGS at 1220
5.0			0				Collected sample TP-18A_Comp at 1245
			0				Collected sample TP-18B_Grab-1 at 5-5.5 ft BGS at 1230
			0				
7.5			0				Collected sample TP-18B_Grab-2 at 7-7.5 ft BGS at 1240
						Bottom of test pit at 7.5 feet.	Collected sample TP-18B_Comp at 1250

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TEST PIT NUMBER TP-19

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CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/2/18 **COMPLETED** 5/2/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0							
			0			Dry, lt brown, medium-to-fine SAND, little silt and gravel, trace debris	
			0				Collected sample TP-19A_Grab-1 at 1.5-2 ft BGS at 1330
2.5			0				
						3.0	
			0			Dry, grey-brown, SAND, some gravel, little silt and clay	
			0				Collected sample TP-19A_Grab-2 at 4-4.5 ft BGS at 1335
5.0						5.0	
			0			Moist, brown, SAND and GRAVEL, come cobbles, little silt	Collected sample TP-19A_Comp at 1355
			0				Collected sample TP-19B_Grab-1 at 5.5-6 ft BGS at 1340
7.5			0				
			0				
			0			9.5	
						Wet, brown, SAND and GRAVEL, come cobbles, little silt	Collected sample TP-19B_Grab-2 at 9.5-10 ft BGS at 1345
10.0						10.0	
						Bottom of test pit at 10.0 feet.	Collected sample TP-19B_Comp at 1400

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TEST PIT NUMBER TP-20

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 4/30/18 **COMPLETED** 4/30/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, brown, medium-to-fine SAND, some silt and coarse-to-fine gravel	Collected sample TP-20_Grab-1 at 0.5-1 ft BGS at 0835
1.0			0			Dry, brown, medium-to-fine SAND and GRAVEL, some cobbles, little silt	
2.5			0				
3.0			0			Dry, dk brown, medium-to-fine SAND, some coarse gravel, little silt and cobbles	Collected sample TP-20_Grab-2 at 4-4.5 ft BGS at 0845
5.0			0				Collected sample TP-20_Comp at 0855
5.6							

Bottom of test pit at 5.6 feet.

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TEST PIT NUMBER TP-21

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/2/18 **COMPLETED** 5/2/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, lt brown, medium-to-fine SAND, some gravel, little silt and cobbles	
			0				
2.0							
2.5			0			Dry, grey-brown, medium-to-fine SAND, some coarse gravel, little silt and cobbles	Collected sample TP-21_Grab-1 at 2.5-3 ft BGS at 1415
			0				
			0				
5.0							
			0			Dry, brown SAND and GRAVEL, little silt and cobbles	
			0				
7.0							Collected sample TP-21_Grab-2 at 6.5-7 ft BGS at 1420
						Bottom of test pit at 7.0 feet.	Collected sample TP-21_Comp at 1430

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TEST PIT NUMBER TP-22

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 4/30/18 **COMPLETED** 4/30/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, brown, medium-to-fine SAND, some silt and coarse-to-fine gravel	
			0				Collected sample TP-22_Grab-1 at 1-1.5 ft BGS at 0740
						2.0	
2.5			0			Dry, grey-brown, medium-to-fine SAND, some coarse-to-fine gravel, little silt and cobbles	
						3.0	
			0			Moist, dk brown, SAND, some coarse gravel, little silt and cobbles	
			0				
5.0							
			0			5.5	Collected sample TP-22_Grab-2 at 5-5.5 ft BGS at 0800
						Bottom of test pit at 5.5 feet.	Collected sample TP-22_Comp at 0805

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TEST PIT NUMBER TP-23

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/3/18 **COMPLETED** 5/3/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Scott Caporizzo **CHECKED BY** _____
AT END OF EXCAVATION ---
NOTES _____
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, brown, medium-to-fine SAND, little gravel and silt	
			0			1.3 Dry, lt brown, medium-to-fine SAND, some coarse gravel, little silt and cobbles	Collected sample TP-23_Grab-1 at 1-1.5 ft BGS at 0730
2.5			0			2.5 Dry, brown, COBBLES, little medium-to-fine sand and gravel, trace boulders	No debris observed in TP-23
			0			3.5 Bottom of test pit at 3.5 feet.	Collected sample TP-23_Grab-2 at 3-3.5 ft BGS at 0735 Collected sample TP-23_Comp at 0740

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TEST PIT NUMBER TP-24

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/3/18 **COMPLETED** 5/3/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Scott Caporizzo **CHECKED BY** _____
AT END OF EXCAVATION ---
NOTES _____
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, grey-brown, medium-to-fine SAND, some crushed stone, little fine gravel and silt	
1.3			0			Dry, brown, medium-to-fine SAND, little coarse gravel and silt	Collected sample TP-24_Grab-1 at 1.5-2 ft BGS at 0800
2.5			0			Dry, brown, medium-to-fine SAND, some coarse gravel and cobbles, little silt	No debris observed in TP-24
5.0			0				Collected sample TP-24_Grab-2 at 5-5.5 ft BGS at 0805
5.5			0			Bottom of test pit at 5.5 feet.	Collected sample TP-24_Comp at 0815

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TEST PIT NUMBER TP-25

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/3/18 **COMPLETED** 5/3/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
▽ **AT TIME OF EXCAVATION** 8.00 ft
LOGGED BY Scott Caporizzo **CHECKED BY** _____
AT END OF EXCAVATION ---
NOTES _____
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, grey-brown, medium-to-fine SAND, little coarse-to-medium gravel and silt, trace cobbles	
			0				Trace brick and rebar debris observed in TP-25
						2.0	
2.5			0			Dry, brown, medium-to-fine SAND, some coarse gravel, little silt and cobbles	
			0				Collected sample TP-25_Grab-1 at 3.5-4 ft BGS at 0950
						4.0	
			0			Wet, grey-brown, COBBLES and coarse GRAVEL, little sand and silt, trace boulders	
5.0			0				Soil becomes moist at 5.5 ft BGS
			0				
7.5			0			▽	Soil becomes wet at 8 ft BGS (perched surface water)
			0				Collected sample TP-25_Grab-2 at 8.5-9 ft BGS at 0955
						9.0	
						Bottom of test pit at 9.0 feet.	Collected sample TP-25_Comp at 1000

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TEST PIT NUMBER TP-26

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/3/18 **COMPLETED** 5/3/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Scott Caporizzo **CHECKED BY** _____
AT END OF EXCAVATION ---
NOTES _____
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, lt brown, medium-to-fine SAND, some silt, little gravel	Trace brick and wood debris observed in TP-26
			0				
2.5			0				
						3.0	
			0			Dry, lt brown, medium-to-fine SAND, little gravel and silt	Collected sample TP-26_Grab-1 at 3.5-4 ft BGS at 0835
			0				
5.0			0				
						6.0	
			0			Dry, grey-brown, medium-to-fine SAND, some coarse gravel, little silt and cobbles	
7.5			0				Soil becomes moist at 8 ft BGS
			0				Collected sample TP-26_Grab-2 at 8.5-9 ft BGS at 0840
						9.0	
						Bottom of test pit at 9.0 feet.	Collected sample TP-26_Comp at 0845

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TEST PIT NUMBER TP-27

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/3/18 **COMPLETED** 5/3/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Scott Caporizzo **CHECKED BY** _____
AT END OF EXCAVATION ---
NOTES _____
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, brown, medium-to fine SAND and coarse GRAVEL, little cobbles and silt	Collected sample TP-27_Grab-1 at 0.5-1 ft BGS at 1050
			0				Collected sample TP-27_Grab-2 at 1.5-2 ft BGS at 1055
2.0						Bottom of test pit at 2.0 feet.	Collected sample TP-27_Comp at 1100
							Trace brick observed in TP-27, only asphalt millings beneath fill (no pavement)

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TEST PIT NUMBER TP-28

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 4/30/18 **COMPLETED** 4/30/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, grey-brown, COBBLES and medium-to-fine SAND, some coarse-to-fine gravel and silt	
			0				Collected sample TP-28_Grab-1 at 1.5-2 ft BGS at 0925
2.5			0				
						3.0	
			0			Dry, lt brown, medium-to-fine SAND, some silt, little fine gravel	
						4.0	
			0			Dry, dk brown, SAND and GRAVEL, some silt, little cobbles	
5.0			0				
							Odor detected around 6 ft BGS
			0				Collected sample TP-28_Grab-2 at 6.5-7 ft BGS at 0940
						7.0	
						Bottom of test pit at 7.0 feet.	Collected sample TP-28_Comp at 0945

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TEST PIT NUMBER TP-29

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/3/18 **COMPLETED** 5/3/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
▽ **AT TIME OF EXCAVATION** 7.50 ft
LOGGED BY Scott Caporizzo **CHECKED BY** _____
AT END OF EXCAVATION ---
NOTES _____
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, grey-brown, medium-to-fine SAND, some gravel, little silt and cobbles	
			0				No debris observed in TP-29
						2.0	
2.5			0			Dry, brown, medium-to-fine SAND, some silt, little gravel	Collected sample TP-29_Grab-1 at 2-2.5 ft BGS at 1135
						3.0	
			0			Moist, grey, medium-to-fine SAND and coarse GRAVEL, little silt and cobbles	
			0				
5.0			0				
						6.0	
			0			Wet, dk brown, medium-to-fine SAND and coarse GRAVEL, little silt and cobbles	
7.5			0			▽	Soil becomes wet/perched water at 7.5 ft BGS
						8.0	
			0			Wet, grey-brown, COBBLES, some sand and gravel.	
			0				Collected sample TP-29_Grab-2 at 9-9.5 ft BGS at 1140
						9.5	
						Bottom of test pit at 9.5 feet.	Collected sample TP-29_Comp at 1145

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TEST PIT NUMBER TP-30

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/4/18 **COMPLETED** 5/4/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Moist, grey-brown, coarse GRAVEL, some cobbles, little sand and silt	
			0				
2.5			0				Collected sample TP-30_Grab-1 at 2.5-3 ft BGS at 0915
			0			3.5	
			0			Wet, brown, SAND and GRAVEL, little silt	Collected sample TP-30_Grab-2 at 3.5-4 ft BGS at 0920
						4.3	Collected sample TP-30_Comp at 0930
						Bottom of test pit at 4.3 feet.	

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Yonkers, New York 10701

TEST PIT NUMBER TP-31

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/4/18 **COMPLETED** 5/4/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES Detected low O2/LEL/CO at ~6.5-7' BGS
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, grey, SAND and GRAVEL, little silt, trace debris	
			0				
						2.0	Collected sample TP-31_Grab-1 at 1.5-2 ft BGS at 0745
2.5			0			Moist, lt brown, SAND, some silt, little coarse gravel and cobbles, trace debris	
			0				
			0			4.5	
5.0			0			Wet, brown, SAND and GRAVEL, some silt, little cobbles	
			0				
						7.0	Collected sample TP-31_Grab-2 at 6.5-7 ft BGS at 0750
						Bottom of test pit at 7.0 feet.	Collected sample TP-31_Comp at 0800. Duplicate samples TP-X-050418-G and TP-X-050418-C collected at this location

ENVIRONMENTAL BH - GINT STD US LAB.GDT - 5/18/18 16:05 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\BICC TEST PITS.GPJ

Paulus, Sarkowski and Sartor
1 Larkin Plaza, 2nd Floor
Yonkers, New York 10701

TEST PIT NUMBER TP-32

CLIENT Extell Waterfront Development, LLC
PROJECT NAME Former BICC Cables Site
PROJECT NUMBER 056970009
PROJECT LOCATION Yonkers, NY
DATE STARTED 5/4/18 **COMPLETED** 5/4/18
GROUND ELEVATION _____ **TEST PIT SIZE** inches
EXCAVATION CONTRACTOR Tony Casale
GROUND WATER LEVELS:
EXCAVATION METHOD Tracked Excavator
AT TIME OF EXCAVATION ---
LOGGED BY Eric Stucker **CHECKED BY** Scott Caporizzo
AT END OF EXCAVATION ---
NOTES
AFTER EXCAVATION ---

DEPTH (ft)	SAMPLE TYPE	RECOVERY %	PID READING (PPM)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	REMARKS
0.0			0			Dry, dk brown, medium-to-fine SAND, some coarse gravel and silt, little cobbles	
			0				Collected sample TP-32_Grab-1 at 1-1.5 ft BGS at 0945
2.5			0				
			0				Collected sample TP-32_Grab-2 at 3-3.5 ft BGS at 0955
					3.5	Bottom of test pit at 3.5 feet.	Collected sample TP-32_Comp at 1000

ENVIRONMENTAL BH - GINT STD US LAB.GDT - 5/18/18 16:05 - C:\USERS\PUBLIC\DOCUMENTS\BENTLEY\GINT\PROJECTS\BICC TEST PITS.GPJ

ATTACHMENT E

Test Pit Photolog

FORMER BICC CABLES SITE (NYSDEC Site No. C360051) – APRIL 30TH THRU MAY 4TH, 2018 TEST PITTING MAY 9TH, 2018 PHOTOLOG



Photograph 1 – Test Pit TP-1A. View to the south.



Photograph 2 – Test Pit TP-1A. View to the east.



Photograph 3 – Test Pit TP-1B. View to the south.



Photograph 4 – Test Pit TP-1B. View to the west.



Photograph 5 – Test Pit TP-2. View to the south.



Photograph 6 – Test Pit TP-2. View to the northwest.



Photograph 7 – Test Pit TP-3 View to the south.



Photograph 8 – Test Pit TP-3. View to the west.



Photograph 9 – Test Pit TP-4. View to the southwest.



Photograph 10 – Test Pit TP-4 excavated material. View to the west..



Photograph 11 – Test Pit TP-5. View to the north.



Photograph 12 – Test Pit TP-5 excavated material. View to the west.



Photograph 13 – Test Pit TP-6. View to the north.



Photograph 14 – Test Pit TP-6. View to the northeast.



Photograph 15 – Test Pit TP-7. View to the west..



Photograph 16 – Test Pit TP-7. View to the south.



Photograph 17 – Test Pit TP-8. View to the north



Photograph 18 – Test Pit TP-8 excavated material. View to the west



Photograph 19 – Test Pit TP-9. View to the north.



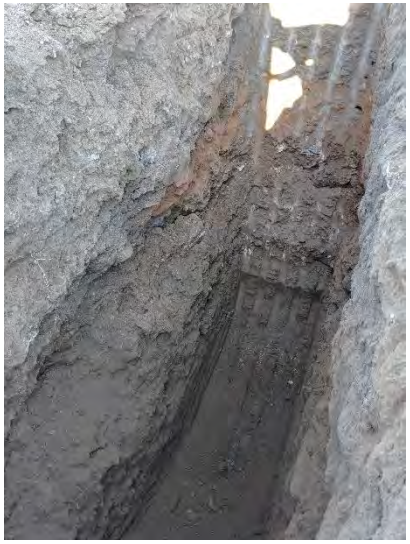
Photograph 20 – Test Pit TP-9 excavated material. View to the northwest



Photograph 21 – Test Pit TP-10. View to the northeast.



Photograph 22 – Test Pit TP-10 excavated material. View to the north



Photograph 23 – Test Pit TP-11. View to the east



Photograph 24 – Test Pit TP-11 and some excavated material. View to the east



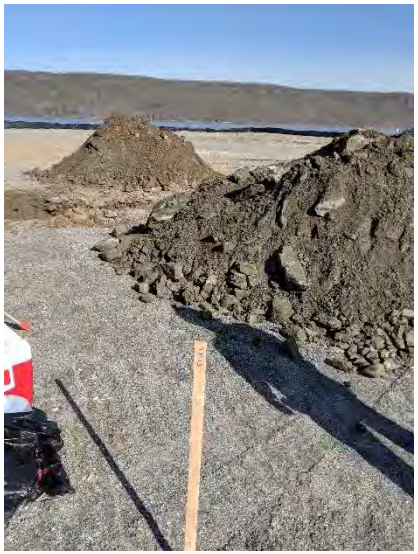
Photograph 25 – Test Pit TP-12 View to the southeast.



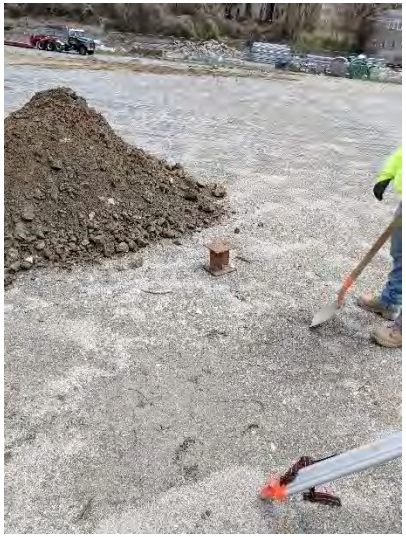
Photograph 26 – Test Pit TP-13. View to the south.



Photograph 27 – Test Pit TP-13. View to the southwest



Photograph 28 – Test Pit TP-13 excavated material. View to the west.



Photograph 29 – Test Pit TP-14 debris and excavated materials. View to the east



Photograph 30 – Test Pit TP-14. View to the northwest.



Photograph 31 – Test Pit TP-15. View to the south



Photograph 32 – Test Pit TP-15. View to the north



Photograph 33 – Test Pit TP-16. View to the south



Photograph 34 – Test Pit TP-15. View to the north



Photograph 35 – Test Pit TP-17. View to the south



Photograph 36 – Test Pit TP-17. View to the north



Photograph 37 – Test Pit TP-18. View to the northwest



Photograph 38 – Test Pit TP-18 excavated material. View to the north



Photograph 39 – Test Pit TP-19. View to the north



Photograph 40– Test Pit TP-19 excavated material. View to the northeast



Photograph 41– Test Pit TP-20. View to the north



Photograph 42– Test Pit TP-20 excavated material. View to the southeast



Photograph 43– Test Pit TP-21 View to the north



Photograph 44– Test Pit TP-21. View to the southeast



Photograph 45– Test Pit TP-22 excavated material. View to the north



Photograph 46 – Test Pit TP-22. View to the west.



Photograph 47 – Test Pit TP-23. View to the southwest?



Photograph 48 – Test Pit TP-23 excavated material. View to the southeast?



Photograph 49 – Test Pit TP-24. View to the north



Photograph 51 – Test Pit TP-25. View to the north



Photograph 50 – Test Pit TP-24 excavated material. View to the southeast.



Photograph 52 – Test Pit TP-25 excavated material. View to the southeast



Photograph 53 – Test Pit TP-26. View to the north?



Photograph 54 – Test Pit TP-26 excavated material. View to the north?



Photograph 55 – Test Pit TP-26 excavated material. View to the north?



Photograph 56 – Test Pit TP-27 and excavated material. View to the northeast?



Photograph 57 – Test Pit TP-28. View to the north



Photograph 58 – Test Pit TP-28 and excavated material. View to the west.



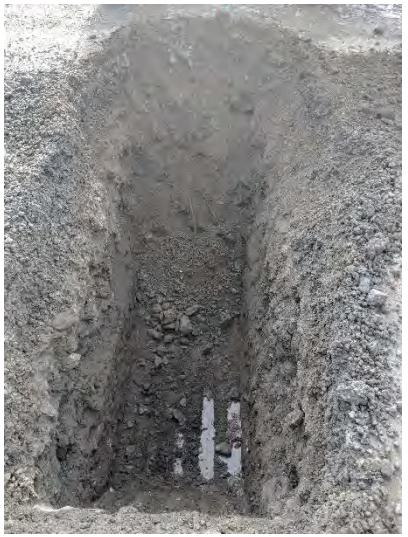
Photograph 59 – Test Pit TP-29. View to the northwest



Photograph 60 – Test Pit TP-26 excavated material. View to the south



Photograph 61 – Test Pit TP-30. View to the north.



Photograph 62 – Test Pit TP-31. View to the west



Photograph 63 – Test Pit TP-32. View to the south



Photograph 64 – Test Pit TP-32 excavated material. View to the northeast

ATTACHMENT F

Alpha Analytical Lab Reports

ANALYTICAL REPORT

Lab Number:	L1815263
Client:	PS&S Engineering, Inc. 1 Larkin Plaza Second Floor Yonkers, NY 10701
ATTN:	Scott Caporizzo
Phone:	(914) 266-3722
Project Name:	FORMER BICC
Project Number:	056970006
Report Date:	05/07/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1815263-01	TP-2_GRAB-1	SOIL	YONKERS, NY	04/30/18 14:00	04/30/18
L1815263-02	TP-2_GRAB-2	SOIL	YONKERS, NY	04/30/18 14:10	04/30/18
L1815263-03	TP-2_COMP	SOIL	YONKERS, NY	04/30/18 14:20	04/30/18
L1815263-04	TP-7A_GRAB-1	SOIL	YONKERS, NY	04/30/18 13:05	04/30/18
L1815263-05	TP-7A_GRAB-2	SOIL	YONKERS, NY	04/30/18 13:15	04/30/18
L1815263-06	TP-7A_COMP	SOIL	YONKERS, NY	04/30/18 13:30	04/30/18
L1815263-07	TP-7B_GRAB-1	SOIL	YONKERS, NY	04/30/18 13:20	04/30/18
L1815263-08	TP-7B_GRAB-2	SOIL	YONKERS, NY	04/30/18 13:25	04/30/18
L1815263-09	TP-7B_COMP	SOIL	YONKERS, NY	04/30/18 13:35	04/30/18
L1815263-10	TP-12_GRAB-1	SOIL	YONKERS, NY	04/30/18 10:10	04/30/18
L1815263-11	TP-12_GRAB-2	SOIL	YONKERS, NY	04/30/18 10:30	04/30/18
L1815263-12	TP-12_COMP	SOIL	YONKERS, NY	04/30/18 10:40	04/30/18
L1815263-13	TP-14A_GRAB-1	SOIL	YONKERS, NY	04/30/18 11:40	04/30/18
L1815263-14	TP-14A_GRAB-2	SOIL	YONKERS, NY	04/30/18 11:50	04/30/18
L1815263-15	TP-14A_COMP	SOIL	YONKERS, NY	04/30/18 12:05	04/30/18
L1815263-16	TP-14B_GRAB-1	SOIL	YONKERS, NY	04/30/18 12:00	04/30/18
L1815263-17	TP-14B_GRAB-2	SOIL	YONKERS, NY	04/30/18 12:15	04/30/18
L1815263-18	TP-14B_COMP	SOIL	YONKERS, NY	04/30/18 12:20	04/30/18
L1815263-19	TP-20_GRAB-1	SOIL	YONKERS, NY	04/30/18 08:35	04/30/18
L1815263-20	TP-20_GRAB-2	SOIL	YONKERS, NY	04/30/18 08:45	04/30/18
L1815263-21	TP-20_COMP	SOIL	YONKERS, NY	04/30/18 08:55	04/30/18
L1815263-22	TP-22_GRAB-1	SOIL	YONKERS, NY	04/30/18 07:40	04/30/18
L1815263-23	TP-22_GRAB-2	SOIL	YONKERS, NY	04/30/18 08:00	04/30/18
L1815263-24	TP-22_COMP	SOIL	YONKERS, NY	04/30/18 08:05	04/30/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1815263-25	TP-28_GRAB-1	SOIL	YONKERS, NY	04/30/18 09:25	04/30/18
L1815263-26	TP-28_GRAB-2	SOIL	YONKERS, NY	04/30/18 09:40	04/30/18
L1815263-27	TP-28_COMP	SOIL	YONKERS, NY	04/30/18 09:45	04/30/18
L1815263-28	TRIP BLANK	WATER	YONKERS, NY	04/30/18 00:00	04/30/18

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

The project number was specified by the client.

Volatile Organics

The WG1113030-5 Method Blank, associated with L1815263-22, -25 and -26, has a concentration above the reporting limit for bromomethane. Since the samples were non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

The WG1113184-5 Method Blank, associated with L1815263-23, has a concentration above the reporting limit for bromomethane. Since the sample was non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

Total Metals

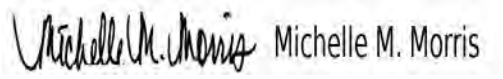
L1815263-03, -06, -09, -12, -15, -18, -21, -24 and -27: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1111986-1 Method Blank, associated with L1815263-03, -06, -09, -12, -15, -18, -21, -24 and -27, has a concentration above the reporting limit for Iron. Since the associated sample concentrations are greater than 10x the blank concentration for this analyte, no corrective action is required.

Cyanide, Total

The WG1111398-2/-3 LCS/LCSD recoveries (72%/47%), associated with L1815263-03, -06, -09, -12, -15, -18, -21, -24 and -27, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported. In addition, the WG1111398-2/-3 LCS/LCSD RPD (41%) is above the acceptance criteria.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Michelle M. Morris

Title: Technical Director/Representative Date: 05/07/18

ORGANICS

VOLATILES

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-01
Client ID: TP-2_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 04/30/18 14:00
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/04/18 00:17
Analyst: NLK
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.9	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.31	1
Chloroform	ND		ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.1	0.39	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.36	1
Tetrachloroethene	ND		ug/kg	1.1	0.34	1
Chlorobenzene	ND		ug/kg	1.1	0.39	1
Trichlorofluoromethane	ND		ug/kg	5.7	0.47	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.40	1
Bromodichloromethane	ND		ug/kg	1.1	0.35	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.26	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.24	1
1,1-Dichloropropene	ND		ug/kg	5.7	0.37	1
Bromoform	ND		ug/kg	4.5	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Benzene	ND		ug/kg	1.1	0.22	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.19	1
Chloromethane	ND		ug/kg	5.7	0.49	1
Bromomethane	ND		ug/kg	2.3	0.38	1
Vinyl chloride	ND		ug/kg	2.3	0.36	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.42	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.27	1

Project Name: FORMER BICC **Lab Number:** L1815263

Project Number: 056970006 **Report Date:** 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-01 Date Collected: 04/30/18 14:00

Client ID: TP-2_GRAB-1 Date Received: 04/30/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	1.0	J	ug/kg	1.1	0.34	1
1,2-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.7	0.25	1
1,4-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.17	1
p/m-Xylene	ND		ug/kg	2.3	0.40	1
o-Xylene	ND		ug/kg	2.3	0.38	1
Xylenes, Total	ND		ug/kg	2.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.39	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.27	1
Dibromomethane	ND		ug/kg	11	0.27	1
Styrene	ND		ug/kg	2.3	0.46	1
Dichlorodifluoromethane	ND		ug/kg	11	0.57	1
Acetone	13		ug/kg	11	2.6	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.78	1
Vinyl acetate	ND		ug/kg	11	0.17	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.20	1
2-Hexanone	ND		ug/kg	11	0.76	1
Bromochloromethane	ND		ug/kg	5.7	0.40	1
2,2-Dichloropropane	ND		ug/kg	5.7	0.51	1
1,2-Dibromoethane	ND		ug/kg	4.5	0.22	1
1,3-Dichloropropane	ND		ug/kg	5.7	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.7	0.25	1
n-Butylbenzene	ND		ug/kg	1.1	0.26	1
sec-Butylbenzene	ND		ug/kg	1.1	0.25	1
tert-Butylbenzene	ND		ug/kg	5.7	0.28	1
o-Chlorotoluene	ND		ug/kg	5.7	0.25	1
p-Chlorotoluene	ND		ug/kg	5.7	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	0.45	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.39	1
Isopropylbenzene	ND		ug/kg	1.1	0.22	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.23	1
Naphthalene	ND		ug/kg	5.7	0.16	1
Acrylonitrile	ND		ug/kg	11	0.58	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-01
Client ID: TP-2_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 04/30/18 14:00
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.7	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.7	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.7	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.7	0.21	1
1,4-Dioxane	ND		ug/kg	45	16.	1
p-Diethylbenzene	ND		ug/kg	4.5	4.5	1
p-Ethyltoluene	ND		ug/kg	4.5	0.26	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.5	0.18	1
Ethyl ether	ND		ug/kg	5.7	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	0.44	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	118		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-02
Client ID: TP-2_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 04/30/18 14:10
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/04/18 00:43
Analyst: NLK
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.6	1.6	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.26	1
Chloroform	0.49	J	ug/kg	1.4	0.35	1
Carbon tetrachloride	ND		ug/kg	0.96	0.33	1
1,2-Dichloropropane	ND		ug/kg	3.4	0.22	1
Dibromochloromethane	ND		ug/kg	0.96	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.30	1
Tetrachloroethene	1.1		ug/kg	0.96	0.29	1
Chlorobenzene	ND		ug/kg	0.96	0.33	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.40	1
1,2-Dichloroethane	ND		ug/kg	0.96	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.96	0.34	1
Bromodichloromethane	ND		ug/kg	0.96	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	0.96	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.96	0.20	1
1,1-Dichloropropene	ND		ug/kg	4.8	0.31	1
Bromoform	ND		ug/kg	3.8	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.96	0.28	1
Benzene	ND		ug/kg	0.96	0.18	1
Toluene	ND		ug/kg	1.4	0.19	1
Ethylbenzene	ND		ug/kg	0.96	0.16	1
Chloromethane	ND		ug/kg	4.8	0.42	1
Bromomethane	ND		ug/kg	1.9	0.32	1
Vinyl chloride	ND		ug/kg	1.9	0.30	1
Chloroethane	ND		ug/kg	1.9	0.30	1
1,1-Dichloroethene	ND		ug/kg	0.96	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.23	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-02
Client ID: TP-2_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 04/30/18 14:10
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	0.64	J	ug/kg	0.96	0.29	1
1,2-Dichlorobenzene	ND		ug/kg	4.8	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	4.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	4.8	0.17	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.15	1
p/m-Xylene	ND		ug/kg	1.9	0.34	1
o-Xylene	ND		ug/kg	1.9	0.32	1
Xylenes, Total	ND		ug/kg	1.9	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	0.96	0.33	1
1,2-Dichloroethene, Total	ND		ug/kg	0.96	0.23	1
Dibromomethane	ND		ug/kg	9.6	0.23	1
Styrene	ND		ug/kg	1.9	0.38	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.48	1
Acetone	22		ug/kg	9.6	2.2	1
Carbon disulfide	ND		ug/kg	9.6	1.0	1
2-Butanone	ND		ug/kg	9.6	0.66	1
Vinyl acetate	ND		ug/kg	9.6	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	9.6	0.23	1
1,2,3-Trichloropropane	ND		ug/kg	9.6	0.17	1
2-Hexanone	ND		ug/kg	9.6	0.64	1
Bromochloromethane	ND		ug/kg	4.8	0.34	1
2,2-Dichloropropane	ND		ug/kg	4.8	0.43	1
1,2-Dibromoethane	ND		ug/kg	3.8	0.19	1
1,3-Dichloropropane	ND		ug/kg	4.8	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.96	0.30	1
Bromobenzene	ND		ug/kg	4.8	0.21	1
n-Butylbenzene	ND		ug/kg	0.96	0.22	1
sec-Butylbenzene	ND		ug/kg	0.96	0.21	1
tert-Butylbenzene	ND		ug/kg	4.8	0.24	1
o-Chlorotoluene	ND		ug/kg	4.8	0.21	1
p-Chlorotoluene	ND		ug/kg	4.8	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.8	0.38	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.33	1
Isopropylbenzene	ND		ug/kg	0.96	0.18	1
p-Isopropyltoluene	ND		ug/kg	0.96	0.19	1
Naphthalene	0.80	J	ug/kg	4.8	0.13	1
Acrylonitrile	ND		ug/kg	9.6	0.49	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-02
Client ID: TP-2_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 04/30/18 14:10
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.96	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.8	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.8	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.8	0.15	1
1,2,4-Trimethylbenzene	0.33	J	ug/kg	4.8	0.18	1
1,4-Dioxane	ND		ug/kg	38	14.	1
p-Diethylbenzene	ND		ug/kg	3.8	3.8	1
p-Ethyltoluene	ND		ug/kg	3.8	0.22	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.8	0.15	1
Ethyl ether	ND		ug/kg	4.8	0.25	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	0.38	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	86		70-130
Dibromofluoromethane	112		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-04
Client ID: TP-7A_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 04/30/18 13:05
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/04/18 01:09
Analyst: NLK
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.9	1.6	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.27	1
Chloroform	ND		ug/kg	1.5	0.37	1
Carbon tetrachloride	ND		ug/kg	0.99	0.34	1
1,2-Dichloropropane	ND		ug/kg	3.5	0.23	1
Dibromochloromethane	ND		ug/kg	0.99	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31	1
Tetrachloroethene	2.8		ug/kg	0.99	0.30	1
Chlorobenzene	ND		ug/kg	0.99	0.34	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.41	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.99	0.35	1
Bromodichloromethane	ND		ug/kg	0.99	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	0.99	0.23	1
1,3-Dichloropropene, Total	ND		ug/kg	0.99	0.21	1
1,1-Dichloropropene	ND		ug/kg	5.0	0.32	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.99	0.30	1
Benzene	ND		ug/kg	0.99	0.19	1
Toluene	ND		ug/kg	1.5	0.19	1
Ethylbenzene	ND		ug/kg	0.99	0.17	1
Chloromethane	ND		ug/kg	5.0	0.43	1
Bromomethane	ND		ug/kg	2.0	0.34	1
Vinyl chloride	ND		ug/kg	2.0	0.31	1
Chloroethane	ND		ug/kg	2.0	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-04
Client ID: TP-7A_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 04/30/18 13:05
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	58		ug/kg	0.99	0.30	1
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.15	1
p/m-Xylene	ND		ug/kg	2.0	0.35	1
o-Xylene	ND		ug/kg	2.0	0.34	1
Xylenes, Total	ND		ug/kg	2.0	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.34	1
1,2-Dichloroethene, Total	ND		ug/kg	0.99	0.24	1
Dibromomethane	ND		ug/kg	9.9	0.24	1
Styrene	ND		ug/kg	2.0	0.40	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.50	1
Acetone	23		ug/kg	9.9	2.3	1
Carbon disulfide	ND		ug/kg	9.9	1.1	1
2-Butanone	ND		ug/kg	9.9	0.68	1
Vinyl acetate	ND		ug/kg	9.9	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	9.9	0.18	1
2-Hexanone	ND		ug/kg	9.9	0.66	1
Bromochloromethane	ND		ug/kg	5.0	0.35	1
2,2-Dichloropropane	ND		ug/kg	5.0	0.45	1
1,2-Dibromoethane	ND		ug/kg	4.0	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.0	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.99	0.32	1
Bromobenzene	ND		ug/kg	5.0	0.22	1
n-Butylbenzene	ND		ug/kg	0.99	0.23	1
sec-Butylbenzene	ND		ug/kg	0.99	0.22	1
tert-Butylbenzene	ND		ug/kg	5.0	0.24	1
o-Chlorotoluene	ND		ug/kg	5.0	0.22	1
p-Chlorotoluene	ND		ug/kg	5.0	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.39	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.34	1
Isopropylbenzene	ND		ug/kg	0.99	0.19	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.20	1
Naphthalene	ND		ug/kg	5.0	0.14	1
Acrylonitrile	ND		ug/kg	9.9	0.51	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-04
Client ID: TP-7A_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 04/30/18 13:05
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.99	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.21	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.18	1
1,4-Dioxane	ND		ug/kg	40	14.	1
p-Diethylbenzene	ND		ug/kg	4.0	4.0	1
p-Ethyltoluene	ND		ug/kg	4.0	0.23	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.15	1
Ethyl ether	ND		ug/kg	5.0	0.26	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	110		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-05
Client ID: TP-7A_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 04/30/18 13:15
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/04/18 01:35
Analyst: NLK
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	55	9.0	1
1,1-Dichloroethane	ND		ug/kg	8.2	1.5	1
Chloroform	ND		ug/kg	8.2	2.0	1
Carbon tetrachloride	ND		ug/kg	5.5	1.9	1
1,2-Dichloropropane	ND		ug/kg	19	1.2	1
Dibromochloromethane	ND		ug/kg	5.5	0.96	1
1,1,2-Trichloroethane	ND		ug/kg	8.2	1.7	1
Tetrachloroethene	ND		ug/kg	5.5	1.6	1
Chlorobenzene	ND		ug/kg	5.5	1.9	1
Trichlorofluoromethane	ND		ug/kg	27	2.3	1
1,2-Dichloroethane	ND		ug/kg	5.5	1.3	1
1,1,1-Trichloroethane	ND		ug/kg	5.5	1.9	1
Bromodichloromethane	ND		ug/kg	5.5	1.7	1
trans-1,3-Dichloropropene	ND		ug/kg	5.5	1.1	1
cis-1,3-Dichloropropene	ND		ug/kg	5.5	1.3	1
1,3-Dichloropropene, Total	ND		ug/kg	5.5	1.1	1
1,1-Dichloropropene	ND		ug/kg	27	1.8	1
Bromoform	ND		ug/kg	22	1.3	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	5.5	1.6	1
Benzene	ND		ug/kg	5.5	1.0	1
Toluene	ND		ug/kg	8.2	1.1	1
Ethylbenzene	ND		ug/kg	5.5	0.93	1
Chloromethane	ND		ug/kg	27	2.4	1
Bromomethane	ND		ug/kg	11	1.8	1
Vinyl chloride	ND		ug/kg	11	1.7	1
Chloroethane	ND		ug/kg	11	1.7	1
1,1-Dichloroethene	ND		ug/kg	5.5	2.0	1
trans-1,2-Dichloroethene	ND		ug/kg	8.2	1.3	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-05
Client ID: TP-7A_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 04/30/18 13:15
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	6.2		ug/kg	5.5	1.6	1
1,2-Dichlorobenzene	ND		ug/kg	27	1.0	1
1,3-Dichlorobenzene	ND		ug/kg	27	1.2	1
1,4-Dichlorobenzene	ND		ug/kg	27	1.0	1
Methyl tert butyl ether	ND		ug/kg	11	0.84	1
p/m-Xylene	ND		ug/kg	11	1.9	1
o-Xylene	ND		ug/kg	11	1.8	1
Xylenes, Total	ND		ug/kg	11	1.8	1
cis-1,2-Dichloroethene	ND		ug/kg	5.5	1.9	1
1,2-Dichloroethene, Total	ND		ug/kg	5.5	1.3	1
Dibromomethane	ND		ug/kg	55	1.3	1
Styrene	ND		ug/kg	11	2.2	1
Dichlorodifluoromethane	ND		ug/kg	55	2.7	1
Acetone	150		ug/kg	55	12.	1
Carbon disulfide	ND		ug/kg	55	6.0	1
2-Butanone	ND		ug/kg	55	3.8	1
Vinyl acetate	ND		ug/kg	55	0.84	1
4-Methyl-2-pentanone	ND		ug/kg	55	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	55	0.97	1
2-Hexanone	ND		ug/kg	55	3.6	1
Bromochloromethane	ND		ug/kg	27	2.0	1
2,2-Dichloropropane	ND		ug/kg	27	2.5	1
1,2-Dibromoethane	ND		ug/kg	22	1.1	1
1,3-Dichloropropane	ND		ug/kg	27	1.0	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	5.5	1.7	1
Bromobenzene	ND		ug/kg	27	1.2	1
n-Butylbenzene	ND		ug/kg	5.5	1.2	1
sec-Butylbenzene	ND		ug/kg	5.5	1.2	1
tert-Butylbenzene	ND		ug/kg	27	1.4	1
o-Chlorotoluene	ND		ug/kg	27	1.2	1
p-Chlorotoluene	ND		ug/kg	27	1.0	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	27	2.2	1
Hexachlorobutadiene	ND		ug/kg	27	1.9	1
Isopropylbenzene	ND		ug/kg	5.5	1.1	1
p-Isopropyltoluene	ND		ug/kg	5.5	1.1	1
Naphthalene	ND		ug/kg	27	0.75	1
Acrylonitrile	ND		ug/kg	55	2.8	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-05
Client ID: TP-7A_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 04/30/18 13:15
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	5.5	1.2	1
1,2,3-Trichlorobenzene	ND		ug/kg	27	1.4	1
1,2,4-Trichlorobenzene	ND		ug/kg	27	1.2	1
1,3,5-Trimethylbenzene	ND		ug/kg	27	0.88	1
1,2,4-Trimethylbenzene	ND		ug/kg	27	1.0	1
1,4-Dioxane	ND		ug/kg	220	79.	1
p-Diethylbenzene	ND		ug/kg	22	22.	1
p-Ethyltoluene	ND		ug/kg	22	1.3	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	22	0.85	1
Ethyl ether	ND		ug/kg	27	1.4	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	27	2.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	81		70-130
Dibromofluoromethane	116		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-07
Client ID: TP-7B_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 04/30/18 13:20
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/04/18 02:01
Analyst: NLK
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.9	1.6	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.27	1
Chloroform	ND		ug/kg	1.5	0.37	1
Carbon tetrachloride	ND		ug/kg	0.99	0.34	1
1,2-Dichloropropane	ND		ug/kg	3.5	0.23	1
Dibromochloromethane	ND		ug/kg	0.99	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31	1
Tetrachloroethene	ND		ug/kg	0.99	0.30	1
Chlorobenzene	ND		ug/kg	0.99	0.35	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.41	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.99	0.35	1
Bromodichloromethane	ND		ug/kg	0.99	0.31	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	0.99	0.23	1
1,3-Dichloropropene, Total	ND		ug/kg	0.99	0.21	1
1,1-Dichloropropene	ND		ug/kg	5.0	0.33	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.99	0.30	1
Benzene	ND		ug/kg	0.99	0.19	1
Toluene	ND		ug/kg	1.5	0.19	1
Ethylbenzene	ND		ug/kg	0.99	0.17	1
Chloromethane	ND		ug/kg	5.0	0.43	1
Bromomethane	ND		ug/kg	2.0	0.34	1
Vinyl chloride	ND		ug/kg	2.0	0.31	1
Chloroethane	ND		ug/kg	2.0	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24	1

Project Name: FORMER BICC **Lab Number:** L1815263

Project Number: 056970006 **Report Date:** 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-07 Date Collected: 04/30/18 13:20

Client ID: TP-7B_GRAB-1 Date Received: 04/30/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	0.40	J	ug/kg	0.99	0.30	1
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.15	1
p/m-Xylene	ND		ug/kg	2.0	0.35	1
o-Xylene	ND		ug/kg	2.0	0.34	1
Xylenes, Total	ND		ug/kg	2.0	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.34	1
1,2-Dichloroethene, Total	ND		ug/kg	0.99	0.24	1
Dibromomethane	ND		ug/kg	9.9	0.24	1
Styrene	ND		ug/kg	2.0	0.40	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.50	1
Acetone	34		ug/kg	9.9	2.3	1
Carbon disulfide	ND		ug/kg	9.9	1.1	1
2-Butanone	ND		ug/kg	9.9	0.69	1
Vinyl acetate	ND		ug/kg	9.9	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	9.9	0.18	1
2-Hexanone	ND		ug/kg	9.9	0.66	1
Bromochloromethane	ND		ug/kg	5.0	0.35	1
2,2-Dichloropropane	ND		ug/kg	5.0	0.45	1
1,2-Dibromoethane	ND		ug/kg	4.0	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.0	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.99	0.32	1
Bromobenzene	ND		ug/kg	5.0	0.22	1
n-Butylbenzene	ND		ug/kg	0.99	0.23	1
sec-Butylbenzene	ND		ug/kg	0.99	0.22	1
tert-Butylbenzene	ND		ug/kg	5.0	0.24	1
o-Chlorotoluene	ND		ug/kg	5.0	0.22	1
p-Chlorotoluene	ND		ug/kg	5.0	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.39	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.35	1
Isopropylbenzene	ND		ug/kg	0.99	0.19	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.20	1
Naphthalene	2.0	J	ug/kg	5.0	0.14	1
Acrylonitrile	ND		ug/kg	9.9	0.51	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-07
Client ID: TP-7B_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 04/30/18 13:20
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.99	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.21	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.18	1
1,4-Dioxane	ND		ug/kg	40	14.	1
p-Diethylbenzene	ND		ug/kg	4.0	4.0	1
p-Ethyltoluene	ND		ug/kg	4.0	0.23	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16	1
Ethyl ether	ND		ug/kg	5.0	0.26	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	115		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-08
Client ID: TP-7B_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 04/30/18 13:25
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/04/18 02:28
Analyst: NLK
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.9	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.31	1
Chloroform	ND		ug/kg	1.7	0.43	1
Carbon tetrachloride	ND		ug/kg	1.2	0.40	1
1,2-Dichloropropane	ND		ug/kg	4.1	0.26	1
Dibromochloromethane	ND		ug/kg	1.2	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.36	1
Tetrachloroethene	ND		ug/kg	1.2	0.35	1
Chlorobenzene	ND		ug/kg	1.2	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.8	0.48	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.41	1
Bromodichloromethane	ND		ug/kg	1.2	0.36	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.27	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.24	1
1,1-Dichloropropene	ND		ug/kg	5.8	0.38	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.35	1
Benzene	ND		ug/kg	1.2	0.22	1
Toluene	ND		ug/kg	1.7	0.23	1
Ethylbenzene	ND		ug/kg	1.2	0.20	1
Chloromethane	ND		ug/kg	5.8	0.51	1
Bromomethane	ND		ug/kg	2.3	0.39	1
Vinyl chloride	ND		ug/kg	2.3	0.37	1
Chloroethane	ND		ug/kg	2.3	0.37	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.43	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.28	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-08
Client ID: TP-7B_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 04/30/18 13:25
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.2	0.35	1
1,2-Dichlorobenzene	ND		ug/kg	5.8	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.8	0.25	1
1,4-Dichlorobenzene	ND		ug/kg	5.8	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.18	1
p/m-Xylene	ND		ug/kg	2.3	0.41	1
o-Xylene	ND		ug/kg	2.3	0.39	1
Xylenes, Total	ND		ug/kg	2.3	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.40	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.28	1
Dibromomethane	ND		ug/kg	12	0.28	1
Styrene	ND		ug/kg	2.3	0.47	1
Dichlorodifluoromethane	ND		ug/kg	12	0.58	1
Acetone	43		ug/kg	12	2.7	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.80	1
Vinyl acetate	ND		ug/kg	12	0.18	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.20	1
2-Hexanone	ND		ug/kg	12	0.77	1
Bromochloromethane	ND		ug/kg	5.8	0.41	1
2,2-Dichloropropane	ND		ug/kg	5.8	0.52	1
1,2-Dibromoethane	ND		ug/kg	4.6	0.23	1
1,3-Dichloropropane	ND		ug/kg	5.8	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.37	1
Bromobenzene	ND		ug/kg	5.8	0.25	1
n-Butylbenzene	ND		ug/kg	1.2	0.26	1
sec-Butylbenzene	ND		ug/kg	1.2	0.25	1
tert-Butylbenzene	ND		ug/kg	5.8	0.29	1
o-Chlorotoluene	ND		ug/kg	5.8	0.26	1
p-Chlorotoluene	ND		ug/kg	5.8	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.8	0.46	1
Hexachlorobutadiene	ND		ug/kg	5.8	0.40	1
Isopropylbenzene	ND		ug/kg	1.2	0.22	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.23	1
Naphthalene	ND		ug/kg	5.8	0.16	1
Acrylonitrile	ND		ug/kg	12	0.60	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-08
Client ID: TP-7B_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 04/30/18 13:25
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.25	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.8	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.8	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.8	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.8	0.22	1
1,4-Dioxane	ND		ug/kg	46	17.	1
p-Diethylbenzene	ND		ug/kg	4.6	4.6	1
p-Ethyltoluene	ND		ug/kg	4.6	0.27	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.6	0.18	1
Ethyl ether	ND		ug/kg	5.8	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	0.46	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	80		70-130
Dibromofluoromethane	116		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-10
Client ID: TP-12_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 04/30/18 10:10
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/04/18 02:54
Analyst: NLK
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	7.5	1.2	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.20	1
Chloroform	ND		ug/kg	1.1	0.28	1
Carbon tetrachloride	ND		ug/kg	0.75	0.26	1
1,2-Dichloropropane	ND		ug/kg	2.6	0.17	1
Dibromochloromethane	ND		ug/kg	0.75	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.24	1
Tetrachloroethene	ND		ug/kg	0.75	0.23	1
Chlorobenzene	ND		ug/kg	0.75	0.26	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.31	1
1,2-Dichloroethane	ND		ug/kg	0.75	0.18	1
1,1,1-Trichloroethane	ND		ug/kg	0.75	0.26	1
Bromodichloromethane	ND		ug/kg	0.75	0.23	1
trans-1,3-Dichloropropene	ND		ug/kg	0.75	0.16	1
cis-1,3-Dichloropropene	ND		ug/kg	0.75	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.75	0.16	1
1,1-Dichloropropene	ND		ug/kg	3.8	0.25	1
Bromoform	ND		ug/kg	3.0	0.18	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.75	0.22	1
Benzene	ND		ug/kg	0.75	0.14	1
Toluene	ND		ug/kg	1.1	0.15	1
Ethylbenzene	ND		ug/kg	0.75	0.13	1
Chloromethane	ND		ug/kg	3.8	0.33	1
Bromomethane	ND		ug/kg	1.5	0.25	1
Vinyl chloride	ND		ug/kg	1.5	0.24	1
Chloroethane	ND		ug/kg	1.5	0.24	1
1,1-Dichloroethene	ND		ug/kg	0.75	0.28	1
trans-1,2-Dichloroethene	ND		ug/kg	1.1	0.18	1

Project Name: FORMER BICC **Lab Number:** L1815263

Project Number: 056970006 **Report Date:** 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-10 Date Collected: 04/30/18 10:10

Client ID: TP-12_GRAB-1 Date Received: 04/30/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	5.2		ug/kg	0.75	0.23	1
1,2-Dichlorobenzene	ND		ug/kg	3.8	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	3.8	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	3.8	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.5	0.11	1
p/m-Xylene	ND		ug/kg	1.5	0.26	1
o-Xylene	ND		ug/kg	1.5	0.25	1
Xylenes, Total	ND		ug/kg	1.5	0.25	1
cis-1,2-Dichloroethene	ND		ug/kg	0.75	0.26	1
1,2-Dichloroethene, Total	ND		ug/kg	0.75	0.18	1
Dibromomethane	ND		ug/kg	7.5	0.18	1
Styrene	ND		ug/kg	1.5	0.30	1
Dichlorodifluoromethane	ND		ug/kg	7.5	0.38	1
Acetone	ND		ug/kg	7.5	1.7	1
Carbon disulfide	ND		ug/kg	7.5	0.83	1
2-Butanone	ND		ug/kg	7.5	0.52	1
Vinyl acetate	ND		ug/kg	7.5	0.11	1
4-Methyl-2-pentanone	ND		ug/kg	7.5	0.18	1
1,2,3-Trichloropropane	ND		ug/kg	7.5	0.13	1
2-Hexanone	ND		ug/kg	7.5	0.50	1
Bromochloromethane	ND		ug/kg	3.8	0.27	1
2,2-Dichloropropane	ND		ug/kg	3.8	0.34	1
1,2-Dibromoethane	ND		ug/kg	3.0	0.15	1
1,3-Dichloropropane	ND		ug/kg	3.8	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.75	0.24	1
Bromobenzene	ND		ug/kg	3.8	0.16	1
n-Butylbenzene	ND		ug/kg	0.75	0.17	1
sec-Butylbenzene	ND		ug/kg	0.75	0.16	1
tert-Butylbenzene	ND		ug/kg	3.8	0.18	1
o-Chlorotoluene	ND		ug/kg	3.8	0.16	1
p-Chlorotoluene	ND		ug/kg	3.8	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	0.30	1
Hexachlorobutadiene	ND		ug/kg	3.8	0.26	1
Isopropylbenzene	ND		ug/kg	0.75	0.14	1
p-Isopropyltoluene	ND		ug/kg	0.75	0.15	1
Naphthalene	0.38	J	ug/kg	3.8	0.10	1
Acrylonitrile	ND		ug/kg	7.5	0.39	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-10
Client ID: TP-12_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 04/30/18 10:10
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.75	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.8	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.8	0.16	1
1,3,5-Trimethylbenzene	0.13	J	ug/kg	3.8	0.12	1
1,2,4-Trimethylbenzene	0.15	J	ug/kg	3.8	0.14	1
1,4-Dioxane	ND		ug/kg	30	11.	1
p-Diethylbenzene	ND		ug/kg	3.0	3.0	1
p-Ethyltoluene	ND		ug/kg	3.0	0.18	1
1,2,4,5-Tetramethylbenzene	0.33	J	ug/kg	3.0	0.12	1
Ethyl ether	ND		ug/kg	3.8	0.20	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	3.8	0.29	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	80		70-130
Dibromofluoromethane	117		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-11
Client ID: TP-12_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 04/30/18 10:30
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/04/18 03:20
Analyst: NLK
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.3	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.22	1
Chloroform	ND		ug/kg	1.2	0.31	1
Carbon tetrachloride	ND		ug/kg	0.83	0.29	1
1,2-Dichloropropane	ND		ug/kg	2.9	0.19	1
Dibromochloromethane	ND		ug/kg	0.83	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.26	1
Tetrachloroethene	ND		ug/kg	0.83	0.25	1
Chlorobenzene	ND		ug/kg	0.83	0.29	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.35	1
1,2-Dichloroethane	ND		ug/kg	0.83	0.20	1
1,1,1-Trichloroethane	ND		ug/kg	0.83	0.29	1
Bromodichloromethane	ND		ug/kg	0.83	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	0.83	0.17	1
cis-1,3-Dichloropropene	ND		ug/kg	0.83	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.83	0.17	1
1,1-Dichloropropene	ND		ug/kg	4.2	0.27	1
Bromoform	ND		ug/kg	3.3	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.83	0.25	1
Benzene	ND		ug/kg	0.83	0.16	1
Toluene	ND		ug/kg	1.2	0.16	1
Ethylbenzene	ND		ug/kg	0.83	0.14	1
Chloromethane	ND		ug/kg	4.2	0.36	1
Bromomethane	ND		ug/kg	1.7	0.28	1
Vinyl chloride	ND		ug/kg	1.7	0.26	1
Chloroethane	ND		ug/kg	1.7	0.26	1
1,1-Dichloroethene	ND		ug/kg	0.83	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1

Project Name: FORMER BICC **Lab Number:** L1815263

Project Number: 056970006 **Report Date:** 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-11 Date Collected: 04/30/18 10:30

Client ID: TP-12_GRAB-2 Date Received: 04/30/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	0.26	J	ug/kg	0.83	0.25	1
1,2-Dichlorobenzene	ND		ug/kg	4.2	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	4.2	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	4.2	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.13	1
p/m-Xylene	ND		ug/kg	1.7	0.29	1
o-Xylene	ND		ug/kg	1.7	0.28	1
Xylenes, Total	ND		ug/kg	1.7	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.83	0.28	1
1,2-Dichloroethene, Total	ND		ug/kg	0.83	0.20	1
Dibromomethane	ND		ug/kg	8.3	0.20	1
Styrene	ND		ug/kg	1.7	0.33	1
Dichlorodifluoromethane	ND		ug/kg	8.3	0.42	1
Acetone	17		ug/kg	8.3	1.9	1
Carbon disulfide	ND		ug/kg	8.3	0.91	1
2-Butanone	ND		ug/kg	8.3	0.57	1
Vinyl acetate	ND		ug/kg	8.3	0.13	1
4-Methyl-2-pentanone	ND		ug/kg	8.3	0.20	1
1,2,3-Trichloropropane	ND		ug/kg	8.3	0.15	1
2-Hexanone	ND		ug/kg	8.3	0.55	1
Bromochloromethane	ND		ug/kg	4.2	0.30	1
2,2-Dichloropropane	ND		ug/kg	4.2	0.37	1
1,2-Dibromoethane	ND		ug/kg	3.3	0.16	1
1,3-Dichloropropane	ND		ug/kg	4.2	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.83	0.26	1
Bromobenzene	ND		ug/kg	4.2	0.18	1
n-Butylbenzene	ND		ug/kg	0.83	0.19	1
sec-Butylbenzene	ND		ug/kg	0.83	0.18	1
tert-Butylbenzene	ND		ug/kg	4.2	0.20	1
o-Chlorotoluene	ND		ug/kg	4.2	0.18	1
p-Chlorotoluene	ND		ug/kg	4.2	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	0.33	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.29	1
Isopropylbenzene	ND		ug/kg	0.83	0.16	1
p-Isopropyltoluene	ND		ug/kg	0.83	0.17	1
Naphthalene	ND		ug/kg	4.2	0.11	1
Acrylonitrile	ND		ug/kg	8.3	0.43	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-11
Client ID: TP-12_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 04/30/18 10:30
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.83	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.2	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.2	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.2	0.13	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.2	0.15	1
1,4-Dioxane	ND		ug/kg	33	12.	1
p-Diethylbenzene	ND		ug/kg	3.3	3.3	1
p-Ethyltoluene	ND		ug/kg	3.3	0.19	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.3	0.13	1
Ethyl ether	ND		ug/kg	4.2	0.22	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.2	0.32	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	112		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-13
Client ID: TP-14A_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 04/30/18 11:40
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/04/18 03:46
Analyst: NLK
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.5	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.23	1
Chloroform	ND		ug/kg	1.3	0.31	1
Carbon tetrachloride	ND		ug/kg	0.85	0.29	1
1,2-Dichloropropane	ND		ug/kg	3.0	0.19	1
Dibromochloromethane	ND		ug/kg	0.85	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.27	1
Tetrachloroethene	ND		ug/kg	0.85	0.26	1
Chlorobenzene	ND		ug/kg	0.85	0.30	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.35	1
1,2-Dichloroethane	ND		ug/kg	0.85	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	0.85	0.30	1
Bromodichloromethane	ND		ug/kg	0.85	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	0.85	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	0.85	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.85	0.18	1
1,1-Dichloropropene	ND		ug/kg	4.2	0.28	1
Bromoform	ND		ug/kg	3.4	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.85	0.25	1
Benzene	ND		ug/kg	0.85	0.16	1
Toluene	ND		ug/kg	1.3	0.16	1
Ethylbenzene	ND		ug/kg	0.85	0.14	1
Chloromethane	ND		ug/kg	4.2	0.37	1
Bromomethane	ND		ug/kg	1.7	0.29	1
Vinyl chloride	ND		ug/kg	1.7	0.27	1
Chloroethane	ND		ug/kg	1.7	0.27	1
1,1-Dichloroethene	ND		ug/kg	0.85	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.20	1

Project Name: FORMER BICC **Lab Number:** L1815263

Project Number: 056970006 **Report Date:** 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-13 Date Collected: 04/30/18 11:40

Client ID: TP-14A_GRAB-1 Date Received: 04/30/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	0.97		ug/kg	0.85	0.26	1
1,2-Dichlorobenzene	ND		ug/kg	4.2	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	4.2	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	4.2	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.13	1
p/m-Xylene	ND		ug/kg	1.7	0.30	1
o-Xylene	ND		ug/kg	1.7	0.29	1
Xylenes, Total	ND		ug/kg	1.7	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.85	0.29	1
1,2-Dichloroethene, Total	ND		ug/kg	0.85	0.20	1
Dibromomethane	ND		ug/kg	8.5	0.20	1
Styrene	ND		ug/kg	1.7	0.34	1
Dichlorodifluoromethane	ND		ug/kg	8.5	0.42	1
Acetone	2.1	J	ug/kg	8.5	1.9	1
Carbon disulfide	ND		ug/kg	8.5	0.94	1
2-Butanone	ND		ug/kg	8.5	0.59	1
Vinyl acetate	ND		ug/kg	8.5	0.13	1
4-Methyl-2-pentanone	ND		ug/kg	8.5	0.21	1
1,2,3-Trichloropropane	ND		ug/kg	8.5	0.15	1
2-Hexanone	ND		ug/kg	8.5	0.57	1
Bromochloromethane	ND		ug/kg	4.2	0.30	1
2,2-Dichloropropane	ND		ug/kg	4.2	0.38	1
1,2-Dibromoethane	ND		ug/kg	3.4	0.17	1
1,3-Dichloropropane	ND		ug/kg	4.2	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.85	0.27	1
Bromobenzene	ND		ug/kg	4.2	0.19	1
n-Butylbenzene	ND		ug/kg	0.85	0.19	1
sec-Butylbenzene	ND		ug/kg	0.85	0.18	1
tert-Butylbenzene	ND		ug/kg	4.2	0.21	1
o-Chlorotoluene	ND		ug/kg	4.2	0.19	1
p-Chlorotoluene	ND		ug/kg	4.2	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	0.34	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.30	1
Isopropylbenzene	ND		ug/kg	0.85	0.16	1
p-Isopropyltoluene	ND		ug/kg	0.85	0.17	1
Naphthalene	ND		ug/kg	4.2	0.12	1
Acrylonitrile	ND		ug/kg	8.5	0.44	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-13
Client ID: TP-14A_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 04/30/18 11:40
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.85	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.2	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.2	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.2	0.14	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.2	0.16	1
1,4-Dioxane	ND		ug/kg	34	12.	1
p-Diethylbenzene	ND		ug/kg	3.4	3.4	1
p-Ethyltoluene	ND		ug/kg	3.4	0.20	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.4	0.13	1
Ethyl ether	ND		ug/kg	4.2	0.22	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.2	0.33	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	80		70-130
Dibromofluoromethane	120		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-14
Client ID: TP-14A_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 04/30/18 11:50
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/04/18 04:12
Analyst: NLK
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	2.4	1
1,1-Dichloroethane	ND		ug/kg	2.2	0.39	1
Chloroform	ND		ug/kg	2.2	0.54	1
Carbon tetrachloride	ND		ug/kg	1.4	0.50	1
1,2-Dichloropropane	ND		ug/kg	5.1	0.33	1
Dibromochloromethane	ND		ug/kg	1.4	0.26	1
1,1,2-Trichloroethane	ND		ug/kg	2.2	0.45	1
Tetrachloroethene	ND		ug/kg	1.4	0.44	1
Chlorobenzene	ND		ug/kg	1.4	0.50	1
Trichlorofluoromethane	ND		ug/kg	7.2	0.60	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.36	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.51	1
Bromodichloromethane	ND		ug/kg	1.4	0.45	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.34	1
1,3-Dichloropropene, Total	ND		ug/kg	1.4	0.30	1
1,1-Dichloropropene	ND		ug/kg	7.2	0.48	1
Bromoform	ND		ug/kg	5.8	0.34	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.43	1
Benzene	ND		ug/kg	1.4	0.28	1
Toluene	ND		ug/kg	2.2	0.28	1
Ethylbenzene	ND		ug/kg	1.4	0.25	1
Chloromethane	ND		ug/kg	7.2	0.63	1
Bromomethane	ND		ug/kg	2.9	0.49	1
Vinyl chloride	ND		ug/kg	2.9	0.46	1
Chloroethane	ND		ug/kg	2.9	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.54	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	0.35	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-14
Client ID: TP-14A_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 04/30/18 11:50
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	3.8		ug/kg	1.4	0.44	1
1,2-Dichlorobenzene	ND		ug/kg	7.2	0.26	1
1,3-Dichlorobenzene	ND		ug/kg	7.2	0.32	1
1,4-Dichlorobenzene	ND		ug/kg	7.2	0.26	1
Methyl tert butyl ether	ND		ug/kg	2.9	0.22	1
p/m-Xylene	ND		ug/kg	2.9	0.51	1
o-Xylene	ND		ug/kg	2.9	0.49	1
Xylenes, Total	ND		ug/kg	2.9	0.49	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.50	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.35	1
Dibromomethane	ND		ug/kg	14	0.35	1
Styrene	ND		ug/kg	2.9	0.58	1
Dichlorodifluoromethane	ND		ug/kg	14	0.72	1
Acetone	14		ug/kg	14	3.3	1
Carbon disulfide	ND		ug/kg	14	1.6	1
2-Butanone	ND		ug/kg	14	1.0	1
Vinyl acetate	ND		ug/kg	14	0.22	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.35	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.26	1
2-Hexanone	ND		ug/kg	14	0.96	1
Bromochloromethane	ND		ug/kg	7.2	0.52	1
2,2-Dichloropropane	ND		ug/kg	7.2	0.65	1
1,2-Dibromoethane	ND		ug/kg	5.8	0.29	1
1,3-Dichloropropane	ND		ug/kg	7.2	0.26	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.46	1
Bromobenzene	ND		ug/kg	7.2	0.32	1
n-Butylbenzene	ND		ug/kg	1.4	0.33	1
sec-Butylbenzene	ND		ug/kg	1.4	0.31	1
tert-Butylbenzene	ND		ug/kg	7.2	0.36	1
o-Chlorotoluene	ND		ug/kg	7.2	0.32	1
p-Chlorotoluene	ND		ug/kg	7.2	0.26	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.2	0.57	1
Hexachlorobutadiene	ND		ug/kg	7.2	0.50	1
Isopropylbenzene	ND		ug/kg	1.4	0.28	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.29	1
Naphthalene	ND		ug/kg	7.2	0.20	1
Acrylonitrile	ND		ug/kg	14	0.74	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-14
Client ID: TP-14A_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 04/30/18 11:50
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.31	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.2	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.2	0.23	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.2	0.27	1
1,4-Dioxane	ND		ug/kg	58	21.	1
p-Diethylbenzene	ND		ug/kg	5.8	5.8	1
p-Ethyltoluene	ND		ug/kg	5.8	0.34	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.8	0.23	1
Ethyl ether	ND		ug/kg	7.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.2	0.57	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	80		70-130
Dibromofluoromethane	117		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-16
Client ID: TP-14B_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 04/30/18 12:00
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/04/18 04:38
Analyst: NLK
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.29	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.37	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.33	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.45	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.38	1
Bromodichloromethane	ND		ug/kg	1.1	0.33	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.25	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.22	1
1,1-Dichloropropene	ND		ug/kg	5.4	0.35	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.32	1
Benzene	ND		ug/kg	1.1	0.21	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.18	1
Chloromethane	ND		ug/kg	5.4	0.47	1
Bromomethane	ND		ug/kg	2.2	0.36	1
Vinyl chloride	ND		ug/kg	2.2	0.34	1
Chloroethane	ND		ug/kg	2.2	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.40	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.26	1

Project Name: FORMER BICC **Lab Number:** L1815263

Project Number: 056970006 **Report Date:** 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-16 Date Collected: 04/30/18 12:00

Client ID: TP-14B_GRAB-1 Date Received: 04/30/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	0.39	J	ug/kg	1.1	0.33	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.4	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.16	1
p/m-Xylene	ND		ug/kg	2.2	0.38	1
o-Xylene	ND		ug/kg	2.2	0.36	1
Xylenes, Total	ND		ug/kg	2.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.37	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.26	1
Dibromomethane	ND		ug/kg	11	0.26	1
Styrene	ND		ug/kg	2.2	0.43	1
Dichlorodifluoromethane	ND		ug/kg	11	0.54	1
Acetone	25		ug/kg	11	2.5	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.74	1
Vinyl acetate	ND		ug/kg	11	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.19	1
2-Hexanone	ND		ug/kg	11	0.72	1
Bromochloromethane	ND		ug/kg	5.4	0.38	1
2,2-Dichloropropane	ND		ug/kg	5.4	0.49	1
1,2-Dibromoethane	ND		ug/kg	4.3	0.22	1
1,3-Dichloropropane	ND		ug/kg	5.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.4	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.25	1
sec-Butylbenzene	ND		ug/kg	1.1	0.23	1
tert-Butylbenzene	ND		ug/kg	5.4	0.27	1
o-Chlorotoluene	ND		ug/kg	5.4	0.24	1
p-Chlorotoluene	ND		ug/kg	5.4	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	0.43	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.38	1
Isopropylbenzene	ND		ug/kg	1.1	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	ND		ug/kg	5.4	0.15	1
Acrylonitrile	ND		ug/kg	11	0.56	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-16
Client ID: TP-14B_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 04/30/18 12:00
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	0.20	1
1,4-Dioxane	ND		ug/kg	43	16.	1
p-Diethylbenzene	ND		ug/kg	4.3	4.3	1
p-Ethyltoluene	ND		ug/kg	4.3	0.25	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.3	0.17	1
Ethyl ether	ND		ug/kg	5.4	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	0.42	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	83		70-130
Dibromofluoromethane	116		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-17
Client ID: TP-14B_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 04/30/18 12:15
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/04/18 05:04
Analyst: NLK
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.0	1.5	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.24	1
Chloroform	ND		ug/kg	1.4	0.33	1
Carbon tetrachloride	ND		ug/kg	0.90	0.31	1
1,2-Dichloropropane	ND		ug/kg	3.2	0.20	1
Dibromochloromethane	ND		ug/kg	0.90	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.28	1
Tetrachloroethene	ND		ug/kg	0.90	0.27	1
Chlorobenzene	ND		ug/kg	0.90	0.31	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.38	1
1,2-Dichloroethane	ND		ug/kg	0.90	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.90	0.32	1
Bromodichloromethane	ND		ug/kg	0.90	0.28	1
trans-1,3-Dichloropropene	ND		ug/kg	0.90	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	0.90	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.90	0.19	1
1,1-Dichloropropene	ND		ug/kg	4.5	0.30	1
Bromoform	ND		ug/kg	3.6	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.90	0.27	1
Benzene	ND		ug/kg	0.90	0.17	1
Toluene	ND		ug/kg	1.4	0.18	1
Ethylbenzene	ND		ug/kg	0.90	0.15	1
Chloromethane	ND		ug/kg	4.5	0.39	1
Bromomethane	ND		ug/kg	1.8	0.30	1
Vinyl chloride	ND		ug/kg	1.8	0.28	1
Chloroethane	ND		ug/kg	1.8	0.28	1
1,1-Dichloroethene	ND		ug/kg	0.90	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.22	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-17
Client ID: TP-14B_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 04/30/18 12:15
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	1.4		ug/kg	0.90	0.27	1
1,2-Dichlorobenzene	ND		ug/kg	4.5	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	4.5	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	4.5	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.14	1
p/m-Xylene	ND		ug/kg	1.8	0.32	1
o-Xylene	ND		ug/kg	1.8	0.30	1
Xylenes, Total	ND		ug/kg	1.8	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	0.90	0.31	1
1,2-Dichloroethene, Total	ND		ug/kg	0.90	0.22	1
Dibromomethane	ND		ug/kg	9.0	0.22	1
Styrene	ND		ug/kg	1.8	0.36	1
Dichlorodifluoromethane	ND		ug/kg	9.0	0.45	1
Acetone	19		ug/kg	9.0	2.1	1
Carbon disulfide	ND		ug/kg	9.0	0.99	1
2-Butanone	ND		ug/kg	9.0	0.62	1
Vinyl acetate	ND		ug/kg	9.0	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	9.0	0.22	1
1,2,3-Trichloropropane	ND		ug/kg	9.0	0.16	1
2-Hexanone	ND		ug/kg	9.0	0.60	1
Bromochloromethane	ND		ug/kg	4.5	0.32	1
2,2-Dichloropropane	ND		ug/kg	4.5	0.40	1
1,2-Dibromoethane	ND		ug/kg	3.6	0.18	1
1,3-Dichloropropane	ND		ug/kg	4.5	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.90	0.29	1
Bromobenzene	ND		ug/kg	4.5	0.20	1
n-Butylbenzene	ND		ug/kg	0.90	0.20	1
sec-Butylbenzene	ND		ug/kg	0.90	0.20	1
tert-Butylbenzene	ND		ug/kg	4.5	0.22	1
o-Chlorotoluene	ND		ug/kg	4.5	0.20	1
p-Chlorotoluene	ND		ug/kg	4.5	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.5	0.36	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.31	1
Isopropylbenzene	ND		ug/kg	0.90	0.17	1
p-Isopropyltoluene	ND		ug/kg	0.90	0.18	1
Naphthalene	ND		ug/kg	4.5	0.12	1
Acrylonitrile	ND		ug/kg	9.0	0.46	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-17
Client ID: TP-14B_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 04/30/18 12:15
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.90	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.5	0.22	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.5	0.19	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.5	0.14	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.5	0.17	1
1,4-Dioxane	ND		ug/kg	36	13.	1
p-Diethylbenzene	ND		ug/kg	3.6	3.6	1
p-Ethyltoluene	ND		ug/kg	3.6	0.21	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.6	0.14	1
Ethyl ether	ND		ug/kg	4.5	0.23	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.5	0.35	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	118		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-19
Client ID: TP-20_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 04/30/18 08:35
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/04/18 05:30
Analyst: NLK
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.2	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.22	1
Chloroform	ND		ug/kg	1.2	0.30	1
Carbon tetrachloride	ND		ug/kg	0.82	0.28	1
1,2-Dichloropropane	ND		ug/kg	2.8	0.18	1
Dibromochloromethane	ND		ug/kg	0.82	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.26	1
Tetrachloroethene	ND		ug/kg	0.82	0.25	1
Chlorobenzene	ND		ug/kg	0.82	0.28	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.34	1
1,2-Dichloroethane	ND		ug/kg	0.82	0.20	1
1,1,1-Trichloroethane	ND		ug/kg	0.82	0.28	1
Bromodichloromethane	ND		ug/kg	0.82	0.25	1
trans-1,3-Dichloropropene	ND		ug/kg	0.82	0.17	1
cis-1,3-Dichloropropene	ND		ug/kg	0.82	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.82	0.17	1
1,1-Dichloropropene	ND		ug/kg	4.1	0.27	1
Bromoform	ND		ug/kg	3.3	0.19	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.82	0.24	1
Benzene	ND		ug/kg	0.82	0.16	1
Toluene	ND		ug/kg	1.2	0.16	1
Ethylbenzene	ND		ug/kg	0.82	0.14	1
Chloromethane	ND		ug/kg	4.1	0.36	1
Bromomethane	ND		ug/kg	1.6	0.28	1
Vinyl chloride	ND		ug/kg	1.6	0.26	1
Chloroethane	ND		ug/kg	1.6	0.26	1
1,1-Dichloroethene	ND		ug/kg	0.82	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1

Project Name: FORMER BICC **Lab Number:** L1815263

Project Number: 056970006 **Report Date:** 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-19 Date Collected: 04/30/18 08:35

Client ID: TP-20_GRAB-1 Date Received: 04/30/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.82	0.25	1
1,2-Dichlorobenzene	ND		ug/kg	4.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	4.1	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	4.1	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.6	0.12	1
p/m-Xylene	ND		ug/kg	1.6	0.29	1
o-Xylene	ND		ug/kg	1.6	0.28	1
Xylenes, Total	ND		ug/kg	1.6	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.82	0.28	1
1,2-Dichloroethene, Total	ND		ug/kg	0.82	0.20	1
Dibromomethane	ND		ug/kg	8.2	0.19	1
Styrene	ND		ug/kg	1.6	0.33	1
Dichlorodifluoromethane	ND		ug/kg	8.2	0.41	1
Acetone	ND		ug/kg	8.2	1.9	1
Carbon disulfide	ND		ug/kg	8.2	0.90	1
2-Butanone	ND		ug/kg	8.2	0.56	1
Vinyl acetate	ND		ug/kg	8.2	0.12	1
4-Methyl-2-pentanone	ND		ug/kg	8.2	0.20	1
1,2,3-Trichloropropane	ND		ug/kg	8.2	0.14	1
2-Hexanone	ND		ug/kg	8.2	0.54	1
Bromochloromethane	ND		ug/kg	4.1	0.29	1
2,2-Dichloropropane	ND		ug/kg	4.1	0.37	1
1,2-Dibromoethane	ND		ug/kg	3.3	0.16	1
1,3-Dichloropropane	ND		ug/kg	4.1	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.82	0.26	1
Bromobenzene	ND		ug/kg	4.1	0.18	1
n-Butylbenzene	ND		ug/kg	0.82	0.18	1
sec-Butylbenzene	ND		ug/kg	0.82	0.18	1
tert-Butylbenzene	ND		ug/kg	4.1	0.20	1
o-Chlorotoluene	ND		ug/kg	4.1	0.18	1
p-Chlorotoluene	ND		ug/kg	4.1	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.1	0.32	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.28	1
Isopropylbenzene	ND		ug/kg	0.82	0.16	1
p-Isopropyltoluene	ND		ug/kg	0.82	0.16	1
Naphthalene	ND		ug/kg	4.1	0.11	1
Acrylonitrile	ND		ug/kg	8.2	0.42	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-19
Client ID: TP-20_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 04/30/18 08:35
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.82	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.1	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.1	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.1	0.13	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.1	0.15	1
1,4-Dioxane	ND		ug/kg	33	12.	1
p-Diethylbenzene	ND		ug/kg	3.3	3.3	1
p-Ethyltoluene	ND		ug/kg	3.3	0.19	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.3	0.13	1
Ethyl ether	ND		ug/kg	4.1	0.21	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.1	0.32	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	80		70-130
Dibromofluoromethane	120		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-20
Client ID: TP-20_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 04/30/18 08:45
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/04/18 05:56
Analyst: NLK
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10	1.7	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.28	1
Chloroform	ND		ug/kg	1.5	0.38	1
Carbon tetrachloride	ND		ug/kg	1.0	0.36	1
1,2-Dichloropropane	ND		ug/kg	3.6	0.24	1
Dibromochloromethane	ND		ug/kg	1.0	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.32	1
Tetrachloroethene	ND		ug/kg	1.0	0.31	1
Chlorobenzene	ND		ug/kg	1.0	0.36	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.43	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.36	1
Bromodichloromethane	ND		ug/kg	1.0	0.32	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21	1
1,1-Dichloropropene	ND		ug/kg	5.2	0.34	1
Bromoform	ND		ug/kg	4.1	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.31	1
Benzene	ND		ug/kg	1.0	0.20	1
Toluene	ND		ug/kg	1.5	0.20	1
Ethylbenzene	ND		ug/kg	1.0	0.18	1
Chloromethane	ND		ug/kg	5.2	0.45	1
Bromomethane	ND		ug/kg	2.1	0.35	1
Vinyl chloride	ND		ug/kg	2.1	0.32	1
Chloroethane	ND		ug/kg	2.1	0.33	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.38	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.25	1

Project Name: FORMER BICC **Lab Number:** L1815263

Project Number: 056970006 **Report Date:** 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-20 Date Collected: 04/30/18 08:45

Client ID: TP-20_GRAB-2 Date Received: 04/30/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.0	0.31	1
1,2-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	5.2	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.16	1
p/m-Xylene	ND		ug/kg	2.1	0.36	1
o-Xylene	ND		ug/kg	2.1	0.35	1
Xylenes, Total	ND		ug/kg	2.1	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.35	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.25	1
Dibromomethane	ND		ug/kg	10	0.25	1
Styrene	ND		ug/kg	2.1	0.41	1
Dichlorodifluoromethane	ND		ug/kg	10	0.52	1
Acetone	56		ug/kg	10	2.4	1
Carbon disulfide	ND		ug/kg	10	1.1	1
2-Butanone	ND		ug/kg	10	0.71	1
Vinyl acetate	ND		ug/kg	10	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.25	1
1,2,3-Trichloropropane	ND		ug/kg	10	0.18	1
2-Hexanone	ND		ug/kg	10	0.69	1
Bromochloromethane	ND		ug/kg	5.2	0.37	1
2,2-Dichloropropane	ND		ug/kg	5.2	0.46	1
1,2-Dibromoethane	ND		ug/kg	4.1	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.33	1
Bromobenzene	ND		ug/kg	5.2	0.23	1
n-Butylbenzene	ND		ug/kg	1.0	0.24	1
sec-Butylbenzene	ND		ug/kg	1.0	0.22	1
tert-Butylbenzene	ND		ug/kg	5.2	0.26	1
o-Chlorotoluene	ND		ug/kg	5.2	0.23	1
p-Chlorotoluene	ND		ug/kg	5.2	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.2	0.41	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.36	1
Isopropylbenzene	ND		ug/kg	1.0	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.21	1
Naphthalene	ND		ug/kg	5.2	0.14	1
Acrylonitrile	ND		ug/kg	10	0.53	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-20
Client ID: TP-20_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 04/30/18 08:45
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.2	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.2	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.2	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.2	0.19	1
1,4-Dioxane	ND		ug/kg	41	15.	1
p-Diethylbenzene	ND		ug/kg	4.1	4.1	1
p-Ethyltoluene	ND		ug/kg	4.1	0.24	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.1	0.16	1
Ethyl ether	ND		ug/kg	5.2	0.27	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	116		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-22
Client ID: TP-22_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 04/30/18 07:40
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/04/18 14:36
Analyst: MV
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10	1.7	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.28	1
Chloroform	ND		ug/kg	1.5	0.38	1
Carbon tetrachloride	ND		ug/kg	1.0	0.35	1
1,2-Dichloropropane	ND		ug/kg	3.6	0.23	1
Dibromochloromethane	ND		ug/kg	1.0	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.32	1
Tetrachloroethene	ND		ug/kg	1.0	0.31	1
Chlorobenzene	ND		ug/kg	1.0	0.35	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.42	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.36	1
Bromodichloromethane	ND		ug/kg	1.0	0.31	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21	1
1,1-Dichloropropene	ND		ug/kg	5.1	0.33	1
Bromoform	ND		ug/kg	4.1	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30	1
Benzene	ND		ug/kg	1.0	0.20	1
Toluene	ND		ug/kg	1.5	0.20	1
Ethylbenzene	ND		ug/kg	1.0	0.17	1
Chloromethane	ND		ug/kg	5.1	0.44	1
Bromomethane	ND		ug/kg	2.0	0.34	1
Vinyl chloride	ND		ug/kg	2.0	0.32	1
Chloroethane	ND		ug/kg	2.0	0.32	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.38	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24	1

Project Name: FORMER BICC **Lab Number:** L1815263

Project Number: 056970006 **Report Date:** 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-22 Date Collected: 04/30/18 07:40

Client ID: TP-22_GRAB-1 Date Received: 04/30/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.0	0.31	1
1,2-Dichlorobenzene	ND		ug/kg	5.1	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	5.1	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	5.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.16	1
p/m-Xylene	ND		ug/kg	2.0	0.36	1
o-Xylene	ND		ug/kg	2.0	0.34	1
Xylenes, Total	ND		ug/kg	2.0	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.35	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24	1
Dibromomethane	ND		ug/kg	10	0.24	1
Styrene	ND		ug/kg	2.0	0.41	1
Dichlorodifluoromethane	ND		ug/kg	10	0.51	1
Acetone	ND		ug/kg	10	2.3	1
Carbon disulfide	ND		ug/kg	10	1.1	1
2-Butanone	ND		ug/kg	10	0.70	1
Vinyl acetate	ND		ug/kg	10	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.25	1
1,2,3-Trichloropropane	ND		ug/kg	10	0.18	1
2-Hexanone	ND		ug/kg	10	0.68	1
Bromochloromethane	ND		ug/kg	5.1	0.36	1
2,2-Dichloropropane	ND		ug/kg	5.1	0.46	1
1,2-Dibromoethane	ND		ug/kg	4.1	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.1	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32	1
Bromobenzene	ND		ug/kg	5.1	0.22	1
n-Butylbenzene	ND		ug/kg	1.0	0.23	1
sec-Butylbenzene	ND		ug/kg	1.0	0.22	1
tert-Butylbenzene	ND		ug/kg	5.1	0.25	1
o-Chlorotoluene	ND		ug/kg	5.1	0.22	1
p-Chlorotoluene	ND		ug/kg	5.1	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.1	0.40	1
Hexachlorobutadiene	ND		ug/kg	5.1	0.35	1
Isopropylbenzene	ND		ug/kg	1.0	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.20	1
Naphthalene	ND		ug/kg	5.1	0.14	1
Acrylonitrile	ND		ug/kg	10	0.52	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-22
Client ID: TP-22_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 04/30/18 07:40
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.1	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.1	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.1	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.1	0.19	1
1,4-Dioxane	ND		ug/kg	41	15.	1
p-Diethylbenzene	ND		ug/kg	4.1	4.1	1
p-Ethyltoluene	ND		ug/kg	4.1	0.24	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.1	0.16	1
Ethyl ether	ND		ug/kg	5.1	0.26	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.1	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	78		70-130
Dibromofluoromethane	115		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-23
Client ID: TP-22_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 04/30/18 08:00
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/06/18 09:20
Analyst: MV
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.0	1.5	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.24	1
Chloroform	ND		ug/kg	1.4	0.33	1
Carbon tetrachloride	ND		ug/kg	0.90	0.31	1
1,2-Dichloropropane	ND		ug/kg	3.2	0.20	1
Dibromochloromethane	ND		ug/kg	0.90	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.28	1
Tetrachloroethene	ND		ug/kg	0.90	0.27	1
Chlorobenzene	ND		ug/kg	0.90	0.31	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.38	1
1,2-Dichloroethane	ND		ug/kg	0.90	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.90	0.32	1
Bromodichloromethane	ND		ug/kg	0.90	0.28	1
trans-1,3-Dichloropropene	ND		ug/kg	0.90	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	0.90	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.90	0.19	1
1,1-Dichloropropene	ND		ug/kg	4.5	0.30	1
Bromoform	ND		ug/kg	3.6	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.90	0.27	1
Benzene	ND		ug/kg	0.90	0.17	1
Toluene	ND		ug/kg	1.4	0.18	1
Ethylbenzene	ND		ug/kg	0.90	0.15	1
Chloromethane	ND		ug/kg	4.5	0.39	1
Bromomethane	0.53	J	ug/kg	1.8	0.30	1
Vinyl chloride	ND		ug/kg	1.8	0.28	1
Chloroethane	ND		ug/kg	1.8	0.28	1
1,1-Dichloroethene	ND		ug/kg	0.90	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.22	1

Project Name: FORMER BICC **Lab Number:** L1815263

Project Number: 056970006 **Report Date:** 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-23 Date Collected: 04/30/18 08:00

Client ID: TP-22_GRAB-2 Date Received: 04/30/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.90	0.27	1
1,2-Dichlorobenzene	ND		ug/kg	4.5	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	4.5	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	4.5	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.14	1
p/m-Xylene	ND		ug/kg	1.8	0.32	1
o-Xylene	ND		ug/kg	1.8	0.30	1
Xylenes, Total	ND		ug/kg	1.8	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	0.90	0.31	1
1,2-Dichloroethene, Total	ND		ug/kg	0.90	0.22	1
Dibromomethane	ND		ug/kg	9.0	0.22	1
Styrene	ND		ug/kg	1.8	0.36	1
Dichlorodifluoromethane	ND		ug/kg	9.0	0.45	1
Acetone	2.1	J	ug/kg	9.0	2.1	1
Carbon disulfide	ND		ug/kg	9.0	0.99	1
2-Butanone	ND		ug/kg	9.0	0.62	1
Vinyl acetate	ND		ug/kg	9.0	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	9.0	0.22	1
1,2,3-Trichloropropane	ND		ug/kg	9.0	0.16	1
2-Hexanone	ND		ug/kg	9.0	0.60	1
Bromochloromethane	ND		ug/kg	4.5	0.32	1
2,2-Dichloropropane	ND		ug/kg	4.5	0.40	1
1,2-Dibromoethane	ND		ug/kg	3.6	0.18	1
1,3-Dichloropropane	ND		ug/kg	4.5	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.90	0.29	1
Bromobenzene	ND		ug/kg	4.5	0.20	1
n-Butylbenzene	ND		ug/kg	0.90	0.20	1
sec-Butylbenzene	ND		ug/kg	0.90	0.20	1
tert-Butylbenzene	ND		ug/kg	4.5	0.22	1
o-Chlorotoluene	ND		ug/kg	4.5	0.20	1
p-Chlorotoluene	ND		ug/kg	4.5	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.5	0.36	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.31	1
Isopropylbenzene	ND		ug/kg	0.90	0.18	1
p-Isopropyltoluene	ND		ug/kg	0.90	0.18	1
Naphthalene	ND		ug/kg	4.5	0.12	1
Acrylonitrile	ND		ug/kg	9.0	0.46	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-23
Client ID: TP-22_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 04/30/18 08:00
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.90	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.5	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.5	0.19	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.5	0.14	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.5	0.17	1
1,4-Dioxane	ND		ug/kg	36	13.	1
p-Diethylbenzene	ND		ug/kg	3.6	3.6	1
p-Ethyltoluene	ND		ug/kg	3.6	0.21	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.6	0.14	1
Ethyl ether	ND		ug/kg	4.5	0.23	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.5	0.35	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	78		70-130
Dibromofluoromethane	121		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-25
Client ID: TP-28_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 04/30/18 09:25
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/04/18 15:28
Analyst: MV
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.9	1.6	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.27	1
Chloroform	ND		ug/kg	1.5	0.36	1
Carbon tetrachloride	ND		ug/kg	0.99	0.34	1
1,2-Dichloropropane	ND		ug/kg	3.4	0.22	1
Dibromochloromethane	ND		ug/kg	0.99	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31	1
Tetrachloroethene	ND		ug/kg	0.99	0.30	1
Chlorobenzene	ND		ug/kg	0.99	0.34	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.41	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.99	0.34	1
Bromodichloromethane	ND		ug/kg	0.99	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	0.99	0.23	1
1,3-Dichloropropene, Total	ND		ug/kg	0.99	0.20	1
1,1-Dichloropropene	ND		ug/kg	4.9	0.32	1
Bromoform	ND		ug/kg	4.0	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.99	0.29	1
Benzene	ND		ug/kg	0.99	0.19	1
Toluene	ND		ug/kg	1.5	0.19	1
Ethylbenzene	ND		ug/kg	0.99	0.17	1
Chloromethane	ND		ug/kg	4.9	0.43	1
Bromomethane	ND		ug/kg	2.0	0.33	1
Vinyl chloride	ND		ug/kg	2.0	0.31	1
Chloroethane	ND		ug/kg	2.0	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-25
Client ID: TP-28_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 04/30/18 09:25
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.99	0.30	1
1,2-Dichlorobenzene	ND		ug/kg	4.9	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	4.9	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	4.9	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.15	1
p/m-Xylene	ND		ug/kg	2.0	0.35	1
o-Xylene	ND		ug/kg	2.0	0.33	1
Xylenes, Total	ND		ug/kg	2.0	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.34	1
1,2-Dichloroethene, Total	ND		ug/kg	0.99	0.24	1
Dibromomethane	ND		ug/kg	9.9	0.24	1
Styrene	ND		ug/kg	2.0	0.40	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.49	1
Acetone	8.3	J	ug/kg	9.9	2.3	1
Carbon disulfide	ND		ug/kg	9.9	1.1	1
2-Butanone	ND		ug/kg	9.9	0.68	1
Vinyl acetate	ND		ug/kg	9.9	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	9.9	0.17	1
2-Hexanone	ND		ug/kg	9.9	0.66	1
Bromochloromethane	ND		ug/kg	4.9	0.35	1
2,2-Dichloropropane	ND		ug/kg	4.9	0.44	1
1,2-Dibromoethane	ND		ug/kg	4.0	0.20	1
1,3-Dichloropropane	ND		ug/kg	4.9	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.99	0.31	1
Bromobenzene	ND		ug/kg	4.9	0.22	1
n-Butylbenzene	ND		ug/kg	0.99	0.22	1
sec-Butylbenzene	ND		ug/kg	0.99	0.21	1
tert-Butylbenzene	ND		ug/kg	4.9	0.24	1
o-Chlorotoluene	ND		ug/kg	4.9	0.22	1
p-Chlorotoluene	ND		ug/kg	4.9	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.9	0.39	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.34	1
Isopropylbenzene	ND		ug/kg	0.99	0.19	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.20	1
Naphthalene	ND		ug/kg	4.9	0.14	1
Acrylonitrile	ND		ug/kg	9.9	0.51	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-25
Client ID: TP-28_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 04/30/18 09:25
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.99	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.9	0.25	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.9	0.21	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.9	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.9	0.18	1
1,4-Dioxane	ND		ug/kg	40	14.	1
p-Diethylbenzene	ND		ug/kg	4.0	4.0	1
p-Ethyltoluene	ND		ug/kg	4.0	0.23	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.15	1
Ethyl ether	ND		ug/kg	4.9	0.26	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	0.39	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	76		70-130
Dibromofluoromethane	117		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-26
Client ID: TP-28_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 04/30/18 09:40
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/04/18 15:55
Analyst: MV
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.29	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.37	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.33	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.45	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.38	1
Bromodichloromethane	ND		ug/kg	1.1	0.33	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.25	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.22	1
1,1-Dichloropropene	ND		ug/kg	5.4	0.36	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.32	1
Benzene	ND		ug/kg	1.1	0.21	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.18	1
Chloromethane	ND		ug/kg	5.4	0.47	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.34	1
Chloroethane	ND		ug/kg	2.2	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.40	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.26	1

Project Name: FORMER BICC **Lab Number:** L1815263

Project Number: 056970006 **Report Date:** 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-26 Date Collected: 04/30/18 09:40

Client ID: TP-28_GRAB-2 Date Received: 04/30/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.1	0.33	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.4	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.16	1
p/m-Xylene	ND		ug/kg	2.2	0.38	1
o-Xylene	ND		ug/kg	2.2	0.37	1
Xylenes, Total	ND		ug/kg	2.2	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.37	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.26	1
Dibromomethane	ND		ug/kg	11	0.26	1
Styrene	ND		ug/kg	2.2	0.43	1
Dichlorodifluoromethane	ND		ug/kg	11	0.54	1
Acetone	6.9	J	ug/kg	11	2.5	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.75	1
Vinyl acetate	ND		ug/kg	11	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.19	1
2-Hexanone	ND		ug/kg	11	0.72	1
Bromochloromethane	ND		ug/kg	5.4	0.39	1
2,2-Dichloropropane	ND		ug/kg	5.4	0.49	1
1,2-Dibromoethane	ND		ug/kg	4.3	0.22	1
1,3-Dichloropropane	ND		ug/kg	5.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.4	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.25	1
sec-Butylbenzene	ND		ug/kg	1.1	0.24	1
tert-Butylbenzene	ND		ug/kg	5.4	0.27	1
o-Chlorotoluene	ND		ug/kg	5.4	0.24	1
p-Chlorotoluene	ND		ug/kg	5.4	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	0.43	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.38	1
Isopropylbenzene	ND		ug/kg	1.1	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	ND		ug/kg	5.4	0.15	1
Acrylonitrile	ND		ug/kg	11	0.56	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-26
Client ID: TP-28_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 04/30/18 09:40
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	0.20	1
1,4-Dioxane	ND		ug/kg	43	16.	1
p-Diethylbenzene	ND		ug/kg	4.3	4.3	1
p-Ethyltoluene	ND		ug/kg	4.3	0.25	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.3	0.17	1
Ethyl ether	ND		ug/kg	5.4	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	0.42	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	79		70-130
Dibromofluoromethane	119		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-28
Client ID: TRIP BLANK
Sample Location: YONKERS, NY

Date Collected: 04/30/18 00:00
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/02/18 14:14
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-28
Client ID: TRIP BLANK
Sample Location: YONKERS, NY
Date Collected: 04/30/18 00:00
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-28
Client ID: TRIP BLANK
Sample Location: YONKERS, NY
Date Collected: 04/30/18 00:00
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	94		70-130

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/02/18 12:23
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 28 Batch: WG1111941-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/02/18 12:23
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 28 Batch: WG1111941-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/02/18 12:23
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 28 Batch: WG1111941-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	93		70-130

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/03/18 21:14
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02,04-05,07-08,10-11,13-14,16-17,19-20 Batch: WG1112588-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	1.4	J	ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/03/18 21:14
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02,04-05,07-08,10-11,13-14,16-17,19-20 Batch: WG1112588-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/03/18 21:14
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02,04-05,07-08,10-11,13-14,16-17,19-20 Batch: WG1112588-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	104		70-130

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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/04/18 08:57
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 22,25-26 Batch: WG1113030-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	2.7		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: FORMER BICC
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/04/18 08:57
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 22,25-26 Batch: WG1113030-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	0.18	J	ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/04/18 08:57
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 22,25-26 Batch: WG1113030-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	110		70-130

Project Name: FORMER BICC
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Lab Number: L1815263
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/06/18 08:28
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 23 Batch: WG1113184-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	0.73	J	ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	2.7		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

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Lab Number: L1815263
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/06/18 08:28
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 23 Batch: WG1113184-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	0.18	J	ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

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Project Number: 056970006

Lab Number: L1815263
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/06/18 08:28
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 23 Batch: WG1113184-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	114		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
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Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 28 Batch: WG1111941-3 WG1111941-4								
Methylene chloride	99		100		70-130	1		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	93		94		70-130	1		20
Carbon tetrachloride	83		84		63-132	1		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	89		92		63-130	3		20
1,1,2-Trichloroethane	100		110		70-130	10		20
Tetrachloroethene	85		86		70-130	1		20
Chlorobenzene	95		96		75-130	1		20
Trichlorofluoromethane	87		89		62-150	2		20
1,2-Dichloroethane	96		98		70-130	2		20
1,1,1-Trichloroethane	88		89		67-130	1		20
Bromodichloromethane	90		93		67-130	3		20
trans-1,3-Dichloropropene	99		100		70-130	1		20
cis-1,3-Dichloropropene	94		95		70-130	1		20
1,1-Dichloropropene	96		98		70-130	2		20
Bromoform	91		93		54-136	2		20
1,1,2,2-Tetrachloroethane	110		110		67-130	0		20
Benzene	93		93		70-130	0		20
Toluene	97		99		70-130	2		20
Ethylbenzene	98		98		70-130	0		20
Chloromethane	120		120		64-130	0		20
Bromomethane	73		68		39-139	7		20

Lab Control Sample Analysis
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Project Name: FORMER BICC
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Lab Number: L1815263
Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 28 Batch: WG1111941-3 WG1111941-4								
Vinyl chloride	100		110		55-140	10		20
Chloroethane	99		110		55-138	11		20
1,1-Dichloroethene	92		93		61-145	1		20
trans-1,2-Dichloroethene	94		95		70-130	1		20
Trichloroethene	87		88		70-130	1		20
1,2-Dichlorobenzene	94		94		70-130	0		20
1,3-Dichlorobenzene	96		94		70-130	2		20
1,4-Dichlorobenzene	96		95		70-130	1		20
Methyl tert butyl ether	90		94		63-130	4		20
p/m-Xylene	95		100		70-130	5		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	92		93		70-130	1		20
Dibromomethane	86		88		70-130	2		20
1,2,3-Trichloropropane	100		110		64-130	10		20
Acrylonitrile	110		110		70-130	0		20
Styrene	**140**	Q	**145**	Q	70-130	4		20
Dichlorodifluoromethane	92		94		36-147	2		20
Acetone	100		110		58-148	10		20
Carbon disulfide	99		100		51-130	1		20
2-Butanone	120		130		63-138	8		20
Vinyl acetate	100		100		70-130	0		20
4-Methyl-2-pentanone	110		110		59-130	0		20
2-Hexanone	99		110		57-130	11		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 28 Batch: WG1111941-3 WG1111941-4								
Bromochloromethane	85		86		70-130	1		20
2,2-Dichloropropane	92		91		63-133	1		20
1,2-Dibromoethane	91		93		70-130	2		20
1,3-Dichloropropane	100		110		70-130	10		20
1,1,1,2-Tetrachloroethane	91		93		64-130	2		20
Bromobenzene	93		91		70-130	2		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	99		98		70-130	1		20
o-Chlorotoluene	110		100		70-130	10		20
p-Chlorotoluene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	91		89		41-144	2		20
Hexachlorobutadiene	66		64		63-130	3		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	100		98		70-130	2		20
Naphthalene	85		86		70-130	1		20
n-Propylbenzene	110		100		69-130	10		20
1,2,3-Trichlorobenzene	77		78		70-130	1		20
1,2,4-Trichlorobenzene	80		80		70-130	0		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	83		82		70-130	1		20
1,4-Dioxane	106		102		56-162	4		20
p-Diethylbenzene	96		94		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815263

Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 28 Batch: WG1111941-3 WG1111941-4								
p-Ethyltoluene	100		100		70-130	0		20
1,2,4,5-Tetramethylbenzene	90		88		70-130	2		20
Ethyl ether	98		100		59-134	2		20
trans-1,4-Dichloro-2-butene	100		100		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		100		70-130
Toluene-d8	104		104		70-130
4-Bromofluorobenzene	105		102		70-130
Dibromofluoromethane	93		93		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815263

Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab	Associated sample(s):	01-02,04-05,07-08,10-11,13-14,16-17,19-20			Batch:	WG1112588-3	WG1112588-4	
Methylene chloride	92		92		70-130	0		30
1,1-Dichloroethane	91		90		70-130	1		30
Chloroform	85		84		70-130	1		30
Carbon tetrachloride	86		84		70-130	2		30
1,2-Dichloropropane	101		102		70-130	1		30
Dibromochloromethane	81		80		70-130	1		30
1,1,2-Trichloroethane	90		92		70-130	2		30
Tetrachloroethene	93		90		70-130	3		30
Chlorobenzene	86		85		70-130	1		30
Trichlorofluoromethane	90		88		70-139	2		30
1,2-Dichloroethane	80		79		70-130	1		30
1,1,1-Trichloroethane	80		78		70-130	3		30
Bromodichloromethane	87		87		70-130	0		30
trans-1,3-Dichloropropene	77		76		70-130	1		30
cis-1,3-Dichloropropene	94		93		70-130	1		30
1,1-Dichloropropene	87		85		70-130	2		30
Bromoform	82		84		70-130	2		30
1,1,2,2-Tetrachloroethane	92		95		70-130	3		30
Benzene	93		92		70-130	1		30
Toluene	87		84		70-130	4		30
Ethylbenzene	85		81		70-130	5		30
Chloromethane	107		104		52-130	3		30
Bromomethane	97		95		57-147	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab	Associated sample(s):	01-02,04-05,07-08,10-11,13-14,16-17,19-20			Batch:	WG1112588-3	WG1112588-4	
Vinyl chloride	107		106		67-130	1		30
Chloroethane	96		92		50-151	4		30
1,1-Dichloroethene	86		84		65-135	2		30
trans-1,2-Dichloroethene	84		84		70-130	0		30
Trichloroethene	84		81		70-130	4		30
1,2-Dichlorobenzene	93		92		70-130	1		30
1,3-Dichlorobenzene	92		90		70-130	2		30
1,4-Dichlorobenzene	92		89		70-130	3		30
Methyl tert butyl ether	89		91		66-130	2		30
p/m-Xylene	94		90		70-130	4		30
o-Xylene	92		88		70-130	4		30
cis-1,2-Dichloroethene	86		85		70-130	1		30
Dibromomethane	89		92		70-130	3		30
Styrene	97		95		70-130	2		30
Dichlorodifluoromethane	86		84		30-146	2		30
Acetone	77		83		54-140	8		30
Carbon disulfide	93		92		59-130	1		30
2-Butanone	92		95		70-130	3		30
Vinyl acetate	108		104		70-130	4		30
4-Methyl-2-pentanone	85		88		70-130	3		30
1,2,3-Trichloropropane	85		87		68-130	2		30
2-Hexanone	76		80		70-130	5		30
Bromochloromethane	97		96		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab	Associated sample(s):		01-02,04-05,07-08,10-11,13-14,16-17,19-20		Batch:	WG1112588-3		WG1112588-4
2,2-Dichloropropane	83		82		70-130	1		30
1,2-Dibromoethane	89		89		70-130	0		30
1,3-Dichloropropane	89		89		69-130	0		30
1,1,1,2-Tetrachloroethane	87		85		70-130	2		30
Bromobenzene	85		83		70-130	2		30
n-Butylbenzene	87		84		70-130	4		30
sec-Butylbenzene	90		87		70-130	3		30
tert-Butylbenzene	82		80		70-130	2		30
o-Chlorotoluene	82		80		70-130	2		30
p-Chlorotoluene	83		79		70-130	5		30
1,2-Dibromo-3-chloropropane	87		90		68-130	3		30
Hexachlorobutadiene	82		79		67-130	4		30
Isopropylbenzene	86		83		70-130	4		30
p-Isopropyltoluene	84		80		70-130	5		30
Naphthalene	83		82		70-130	1		30
Acrylonitrile	109		106		70-130	3		30
n-Propylbenzene	84		81		70-130	4		30
1,2,3-Trichlorobenzene	94		92		70-130	2		30
1,2,4-Trichlorobenzene	91		88		70-130	3		30
1,3,5-Trimethylbenzene	88		85		70-130	3		30
1,2,4-Trimethylbenzene	90		87		70-130	3		30
1,4-Dioxane	123		129		65-136	5		30
p-Diethylbenzene	82		78		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815263

Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab	Associated sample(s):	01-02,04-05,07-08,10-11,13-14,16-17,19-20			Batch:	WG1112588-3	WG1112588-4	
p-Ethyltoluene	85		82		70-130	4		30
1,2,4,5-Tetramethylbenzene	79		76		70-130	4		30
Ethyl ether	106		108		67-130	2		30
trans-1,4-Dichloro-2-butene	87		87		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		93		70-130
Toluene-d8	94		93		70-130
4-Bromofluorobenzene	86		87		70-130
Dibromofluoromethane	104		105		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 22,25-26 Batch: WG1113030-3 WG1113030-4								
Methylene chloride	109		108		70-130	1		30
1,1-Dichloroethane	112		111		70-130	1		30
Chloroform	105		103		70-130	2		30
Carbon tetrachloride	111		111		70-130	0		30
1,2-Dichloropropane	115		112		70-130	3		30
Dibromochloromethane	94		94		70-130	0		30
1,1,2-Trichloroethane	103		104		70-130	1		30
Tetrachloroethene	108		108		70-130	0		30
Chlorobenzene	100		99		70-130	1		30
Trichlorofluoromethane	121		117		70-139	3		30
1,2-Dichloroethane	102		98		70-130	4		30
1,1,1-Trichloroethane	104		101		70-130	3		30
Bromodichloromethane	106		103		70-130	3		30
trans-1,3-Dichloropropene	91		88		70-130	3		30
cis-1,3-Dichloropropene	108		108		70-130	0		30
1,1-Dichloropropene	105		104		70-130	1		30
Bromoform	90		90		70-130	0		30
1,1,2,2-Tetrachloroethane	102		103		70-130	1		30
Benzene	108		108		70-130	0		30
Toluene	99		98		70-130	1		30
Ethylbenzene	99		99		70-130	0		30
Chloromethane	**138**	Q	129		52-130	7		30
Bromomethane	117		118		57-147	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 22,25-26 Batch: WG1113030-3 WG1113030-4								
Vinyl chloride	**137**	Q	**134**	Q	67-130	2		30
Chloroethane	120		121		50-151	1		30
1,1-Dichloroethene	103		105		65-135	2		30
trans-1,2-Dichloroethene	100		99		70-130	1		30
Trichloroethene	100		100		70-130	0		30
1,2-Dichlorobenzene	106		104		70-130	2		30
1,3-Dichlorobenzene	105		105		70-130	0		30
1,4-Dichlorobenzene	102		101		70-130	1		30
Methyl tert butyl ether	103		102		66-130	1		30
p/m-Xylene	108		108		70-130	0		30
o-Xylene	106		106		70-130	0		30
cis-1,2-Dichloroethene	99		98		70-130	1		30
Dibromomethane	107		107		70-130	0		30
Styrene	114		114		70-130	0		30
Dichlorodifluoromethane	114		111		30-146	3		30
Acetone	93		97		54-140	4		30
Carbon disulfide	115		114		59-130	1		30
2-Butanone	98		90		70-130	9		30
Vinyl acetate	120		117		70-130	3		30
4-Methyl-2-pentanone	95		88		70-130	8		30
1,2,3-Trichloropropane	97		96		68-130	1		30
2-Hexanone	79		80		70-130	1		30
Bromochloromethane	111		112		70-130	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 22,25-26 Batch: WG1113030-3 WG1113030-4								
2,2-Dichloropropane	111		109		70-130	2		30
1,2-Dibromoethane	98		98		70-130	0		30
1,3-Dichloropropane	103		102		69-130	1		30
1,1,1,2-Tetrachloroethane	102		103		70-130	1		30
Bromobenzene	95		94		70-130	1		30
n-Butylbenzene	102		100		70-130	2		30
sec-Butylbenzene	103		102		70-130	1		30
tert-Butylbenzene	91		92		70-130	1		30
o-Chlorotoluene	96		94		70-130	2		30
p-Chlorotoluene	94		94		70-130	0		30
1,2-Dibromo-3-chloropropane	91		93		68-130	2		30
Hexachlorobutadiene	96		96		67-130	0		30
Isopropylbenzene	96		95		70-130	1		30
p-Isopropyltoluene	95		95		70-130	0		30
Naphthalene	90		88		70-130	2		30
Acrylonitrile	118		117		70-130	1		30
n-Propylbenzene	96		95		70-130	1		30
1,2,3-Trichlorobenzene	107		108		70-130	1		30
1,2,4-Trichlorobenzene	100		101		70-130	1		30
1,3,5-Trimethylbenzene	100		101		70-130	1		30
1,2,4-Trimethylbenzene	102		101		70-130	1		30
1,4-Dioxane	125		116		65-136	7		30
p-Diethylbenzene	92		92		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815263

Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 22,25-26 Batch: WG1113030-3 WG1113030-4								
p-Ethyltoluene	97		97		70-130	0		30
1,2,4,5-Tetramethylbenzene	90		87		70-130	3		30
Ethyl ether	119		115		67-130	3		30
trans-1,4-Dichloro-2-butene	96		99		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	106		101		70-130
Toluene-d8	94		95		70-130
4-Bromofluorobenzene	89		85		70-130
Dibromofluoromethane	112		112		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815263

Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 23 Batch: WG1113184-3 WG1113184-4								
Methylene chloride	100		96		70-130	4		30
1,1-Dichloroethane	102		100		70-130	2		30
Chloroform	94		94		70-130	0		30
Carbon tetrachloride	100		99		70-130	1		30
1,2-Dichloropropane	106		107		70-130	1		30
Dibromochloromethane	86		87		70-130	1		30
1,1,2-Trichloroethane	94		95		70-130	1		30
Tetrachloroethene	97		96		70-130	1		30
Chlorobenzene	89		89		70-130	0		30
Trichlorofluoromethane	108		106		70-139	2		30
1,2-Dichloroethane	91		92		70-130	1		30
1,1,1-Trichloroethane	94		92		70-130	2		30
Bromodichloromethane	98		97		70-130	1		30
trans-1,3-Dichloropropene	82		83		70-130	1		30
cis-1,3-Dichloropropene	100		99		70-130	1		30
1,1-Dichloropropene	95		93		70-130	2		30
Bromoform	84		85		70-130	1		30
1,1,2,2-Tetrachloroethane	97		98		70-130	1		30
Benzene	98		98		70-130	0		30
Toluene	95		95		70-130	0		30
Ethylbenzene	89		88		70-130	1		30
Chloromethane	114		113		52-130	1		30
Bromomethane	118		116		57-147	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815263

Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 23 Batch: WG1113184-3 WG1113184-4								
Vinyl chloride	119		115		67-130	3		30
Chloroethane	107		108		50-151	1		30
1,1-Dichloroethene	94		93		65-135	1		30
trans-1,2-Dichloroethene	92		89		70-130	3		30
Trichloroethene	91		91		70-130	0		30
1,2-Dichlorobenzene	97		95		70-130	2		30
1,3-Dichlorobenzene	96		92		70-130	4		30
1,4-Dichlorobenzene	94		93		70-130	1		30
Methyl tert butyl ether	97		100		66-130	3		30
p/m-Xylene	97		94		70-130	3		30
o-Xylene	96		95		70-130	1		30
cis-1,2-Dichloroethene	91		91		70-130	0		30
Dibromomethane	98		98		70-130	0		30
Styrene	103		102		70-130	1		30
Dichlorodifluoromethane	96		96		30-146	0		30
Acetone	95		103		54-140	8		30
Carbon disulfide	104		102		59-130	2		30
2-Butanone	79		95		70-130	18		30
Vinyl acetate	109		111		70-130	2		30
4-Methyl-2-pentanone	84		82		70-130	2		30
1,2,3-Trichloropropane	92		92		68-130	0		30
2-Hexanone	71		77		70-130	8		30
Bromochloromethane	103		100		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 23 Batch: WG1113184-3 WG1113184-4								
2,2-Dichloropropane	103		102		70-130	1		30
1,2-Dibromoethane	92		92		70-130	0		30
1,3-Dichloropropane	92		94		69-130	2		30
1,1,1,2-Tetrachloroethane	94		94		70-130	0		30
Bromobenzene	86		88		70-130	2		30
n-Butylbenzene	91		88		70-130	3		30
sec-Butylbenzene	93		91		70-130	2		30
tert-Butylbenzene	83		81		70-130	2		30
o-Chlorotoluene	86		84		70-130	2		30
p-Chlorotoluene	86		85		70-130	1		30
1,2-Dibromo-3-chloropropane	95		89		68-130	7		30
Hexachlorobutadiene	89		86		67-130	3		30
Isopropylbenzene	88		86		70-130	2		30
p-Isopropyltoluene	86		84		70-130	2		30
Naphthalene	83		81		70-130	2		30
Acrylonitrile	110		111		70-130	1		30
n-Propylbenzene	86		84		70-130	2		30
1,2,3-Trichlorobenzene	98		95		70-130	3		30
1,2,4-Trichlorobenzene	92		88		70-130	4		30
1,3,5-Trimethylbenzene	92		90		70-130	2		30
1,2,4-Trimethylbenzene	93		90		70-130	3		30
1,4-Dioxane	121		129		65-136	6		30
p-Diethylbenzene	84		81		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815263

Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 23 Batch: WG1113184-3 WG1113184-4								
p-Ethyltoluene	88		85		70-130	3		30
1,2,4,5-Tetramethylbenzene	79		77		70-130	3		30
Ethyl ether	114		116		67-130	2		30
trans-1,4-Dichloro-2-butene	92		95		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		103		70-130
Toluene-d8	93		93		70-130
4-Bromofluorobenzene	86		86		70-130
Dibromofluoromethane	111		113		70-130

SEMIVOLATILES

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-03
Client ID: TP-2_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 14:20
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/04/18 05:06
Analyst: SZ
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 09:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	39.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	68	J	ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	180	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1
Di-n-butylphthalate	ND		ug/kg	190	37.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1

Project Name: FORMER BICC **Lab Number:** L1815263

Project Number: 056970006 **Report Date:** 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-03 Date Collected: 04/30/18 14:20

Client ID: TP-2_COMP Date Received: 04/30/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	39	J	ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	51	J	ug/kg	120	32.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	40	J	ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	25	J	ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	36	J	ug/kg	120	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	64	J	ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	45.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	930	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	93.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-03
Client ID: TP-2_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 14:20
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	ND		ug/kg	190	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	96		10-136
4-Terphenyl-d14	86		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-06
Client ID: TP-7A_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 13:30
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/04/18 09:14
Analyst: SZ
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 09:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
1,2-Dichlorobenzene	ND		ug/kg	190	33.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	260		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	64.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	35.	1
Di-n-octylphthalate	ND		ug/kg	190	63.	1

Project Name: FORMER BICC **Lab Number:** L1815263

Project Number: 056970006 **Report Date:** 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-06 Date Collected: 04/30/18 13:30

Client ID: TP-7A_COMP Date Received: 04/30/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	190		ug/kg	110	21.	1
Benzo(a)pyrene	180		ug/kg	150	45.	1
Benzo(b)fluoranthene	240		ug/kg	110	31.	1
Benzo(k)fluoranthene	97	J	ug/kg	110	30.	1
Chrysene	190		ug/kg	110	19.	1
Acenaphthylene	34	J	ug/kg	150	29.	1
Anthracene	36	J	ug/kg	110	36.	1
Benzo(ghi)perylene	130	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	120		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	48	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	140	J	ug/kg	150	26.	1
Pyrene	240		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	77.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	19.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-06
Client ID: TP-7A_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 13:30
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	ND		ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	104		10-136
4-Terphenyl-d14	81		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-09
Client ID: TP-7B_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 13:35
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/04/18 04:11
Analyst: SZ
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 09:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	110		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: FORMER BICC **Lab Number:** L1815263

Project Number: 056970006 **Report Date:** 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-09 Date Collected: 04/30/18 13:35

Client ID: TP-7B_COMP Date Received: 04/30/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	45	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	57	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	50	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	29	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	100	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	29	J	ug/kg	150	26.	1
Pyrene	100	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-09
Client ID: TP-7B_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 13:35
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	97		10-136
4-Terphenyl-d14	81		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-12
Client ID: TP-12_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 10:40
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/04/18 04:39
Analyst: SZ
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 09:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	62	J	ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: FORMER BICC **Lab Number:** L1815263

Project Number: 056970006 **Report Date:** 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-12 Date Collected: 04/30/18 10:40

Client ID: TP-12_COMP Date Received: 04/30/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	31	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	36	J	ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	29	J	ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	48	J	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	57	J	ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	910	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-12
Client ID: TP-12_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 10:40
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	102		10-136
4-Terphenyl-d14	93		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-15
Client ID: TP-14A_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 12:05
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/04/18 03:44
Analyst: SZ
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 09:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	49	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-15
Client ID: TP-14A_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 12:05
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	28	J	ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	150	44.	1
Benzo(b)fluoranthene	31	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	26	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	41	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	25.	1
Pyrene	46	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	69.	1
4-Nitrophenol	ND		ug/kg	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-15
Client ID: TP-14A_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 12:05
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	99		10-136
4-Terphenyl-d14	84		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-18
Client ID: TP-14B_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 12:20
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/04/18 06:01
Analyst: SZ
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 09:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	59	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: FORMER BICC **Lab Number:** L1815263

Project Number: 056970006 **Report Date:** 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-18 Date Collected: 04/30/18 12:20

Client ID: TP-14B_COMP Date Received: 04/30/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	30	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	38	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	31	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	37	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	56	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-18
Client ID: TP-14B_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 12:20
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	95		10-120
Nitrobenzene-d5	107		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	111		10-136
4-Terphenyl-d14	92		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-21 D2
Client ID: TP-20_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 08:55
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/05/18 18:44
Analyst: RC
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 09:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenanthrene	79000		ug/kg	2100	430	20

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-21 D
Client ID: TP-20_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 08:55
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/04/18 16:35
Analyst: CB
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 09:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	16000		ug/kg	1400	180	10
1,2,4-Trichlorobenzene	ND		ug/kg	1800	200	10
Hexachlorobenzene	ND		ug/kg	1100	200	10
Bis(2-chloroethyl)ether	ND		ug/kg	1600	240	10
2-Chloronaphthalene	ND		ug/kg	1800	180	10
1,2-Dichlorobenzene	ND		ug/kg	1800	320	10
1,3-Dichlorobenzene	ND		ug/kg	1800	310	10
1,4-Dichlorobenzene	ND		ug/kg	1800	310	10
3,3'-Dichlorobenzidine	ND		ug/kg	1800	470	10
2,4-Dinitrotoluene	ND		ug/kg	1800	360	10
2,6-Dinitrotoluene	ND		ug/kg	1800	310	10
Fluoranthene	52000		ug/kg	1100	200	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1800	190	10
4-Bromophenyl phenyl ether	ND		ug/kg	1800	270	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2100	300	10
Bis(2-chloroethoxy)methane	ND		ug/kg	1900	180	10
Hexachlorobutadiene	ND		ug/kg	1800	260	10
Hexachlorocyclopentadiene	ND		ug/kg	5100	1600	10
Hexachloroethane	ND		ug/kg	1400	290	10
Isophorone	ND		ug/kg	1600	230	10
Naphthalene	14000		ug/kg	1800	220	10
Nitrobenzene	ND		ug/kg	1600	260	10
NDPA/DPA	ND		ug/kg	1400	200	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1800	280	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1800	620	10
Butyl benzyl phthalate	ND		ug/kg	1800	450	10
Di-n-butylphthalate	ND		ug/kg	1800	340	10
Di-n-octylphthalate	ND		ug/kg	1800	610	10

Project Name: FORMER BICC **Lab Number:** L1815263

Project Number: 056970006 **Report Date:** 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-21 D Date Collected: 04/30/18 08:55

Client ID: TP-20_COMP Date Received: 04/30/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	1800	160	10
Dimethyl phthalate	ND		ug/kg	1800	370	10
Benzo(a)anthracene	24000		ug/kg	1100	200	10
Benzo(a)pyrene	19000		ug/kg	1400	440	10
Benzo(b)fluoranthene	23000		ug/kg	1100	300	10
Benzo(k)fluoranthene	8000		ug/kg	1100	280	10
Chrysene	21000		ug/kg	1100	180	10
Acenaphthylene	ND		ug/kg	1400	280	10
Anthracene	22000		ug/kg	1100	350	10
Benzo(ghi)perylene	11000		ug/kg	1400	210	10
Fluorene	13000		ug/kg	1800	170	10
Phenanthrene	74000	E	ug/kg	1100	220	10
Dibenzo(a,h)anthracene	2500		ug/kg	1100	210	10
Indeno(1,2,3-cd)pyrene	12000		ug/kg	1400	250	10
Pyrene	43000		ug/kg	1100	180	10
Biphenyl	2000	J	ug/kg	4100	410	10
4-Chloroaniline	ND		ug/kg	1800	320	10
2-Nitroaniline	ND		ug/kg	1800	340	10
3-Nitroaniline	ND		ug/kg	1800	340	10
4-Nitroaniline	ND		ug/kg	1800	740	10
Dibenzofuran	12000		ug/kg	1800	170	10
2-Methylnaphthalene	6400		ug/kg	2100	220	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1800	190	10
Acetophenone	ND		ug/kg	1800	220	10
2,4,6-Trichlorophenol	ND		ug/kg	1100	340	10
p-Chloro-m-cresol	ND		ug/kg	1800	260	10
2-Chlorophenol	ND		ug/kg	1800	210	10
2,4-Dichlorophenol	ND		ug/kg	1600	290	10
2,4-Dimethylphenol	ND		ug/kg	1800	590	10
2-Nitrophenol	ND		ug/kg	3800	670	10
4-Nitrophenol	ND		ug/kg	2500	730	10
2,4-Dinitrophenol	ND		ug/kg	8600	830	10
4,6-Dinitro-o-cresol	ND		ug/kg	4600	860	10
Pentachlorophenol	ND		ug/kg	1400	390	10
Phenol	ND		ug/kg	1800	270	10
2-Methylphenol	ND		ug/kg	1800	280	10
3-Methylphenol/4-Methylphenol	400	J	ug/kg	2600	280	10

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-21 D
Client ID: TP-20_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 08:55
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	1800	340	10
Benzoic Acid	ND		ug/kg	5800	1800	10
Benzyl Alcohol	ND		ug/kg	1800	550	10
Carbazole	9700		ug/kg	1800	170	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	59		30-120
2,4,6-Tribromophenol	58		10-136
4-Terphenyl-d14	62		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-24
Client ID: TP-22_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 08:05
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/04/18 05:34
Analyst: SZ
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 09:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	180		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: FORMER BICC **Lab Number:** L1815263

Project Number: 056970006 **Report Date:** 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-24 Date Collected: 04/30/18 08:05

Client ID: TP-22_COMP Date Received: 04/30/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	97	J	ug/kg	100	20.	1
Benzo(a)pyrene	89	J	ug/kg	140	43.	1
Benzo(b)fluoranthene	110		ug/kg	100	30.	1
Benzo(k)fluoranthene	40	J	ug/kg	100	28.	1
Chrysene	96	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	59	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	110		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	59	J	ug/kg	140	24.	1
Pyrene	170		ug/kg	100	18.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	28.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-24
Client ID: TP-22_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 08:05
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	103		10-136
4-Terphenyl-d14	87		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-27
Client ID: TP-28_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 09:45
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/05/18 20:32
Analyst: EK
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 09:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	210		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	78	J	ug/kg	180	63.	1
Butyl benzyl phthalate	140	J	ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: FORMER BICC **Lab Number:** L1815263

Project Number: 056970006 **Report Date:** 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-27 Date Collected: 04/30/18 09:45

Client ID: TP-28_COMP Date Received: 04/30/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	100	J	ug/kg	110	20.	1
Benzo(a)pyrene	84	J	ug/kg	140	44.	1
Benzo(b)fluoranthene	110		ug/kg	110	30.	1
Benzo(k)fluoranthene	35	J	ug/kg	110	29.	1
Chrysene	95	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	45	J	ug/kg	110	35.	1
Benzo(ghi)perylene	54	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	160		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	50	J	ug/kg	140	25.	1
Pyrene	190		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-27
Client ID: TP-28_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 09:45
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	88		30-120
2,4,6-Tribromophenol	92		10-136
4-Terphenyl-d14	86		18-120

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/02/18 14:00
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 05/01/18 09:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03,06,09,12,15,18,21,24,27 Batch: WG1111354-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/02/18 14:00
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 05/01/18 09:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03,06,09,12,15,18,21,24,27 Batch: WG1111354-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/02/18 14:00
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 05/01/18 09:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03,06,09,12,15,18,21,24,27 Batch: WG1111354-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Tentatively Identified Compounds					
Total TIC Compounds	213	J	ug/kg		
Aldol Condensates	213	J	ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	101		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,06,09,12,15,18,21,24,27 Batch: WG1111354-2 WG1111354-3								
Acenaphthene	78		80		31-137	3		50
1,2,4-Trichlorobenzene	77		79		38-107	3		50
Hexachlorobenzene	80		81		40-140	1		50
Bis(2-chloroethyl)ether	78		82		40-140	5		50
2-Chloronaphthalene	84		88		40-140	5		50
1,2-Dichlorobenzene	76		78		40-140	3		50
1,3-Dichlorobenzene	74		77		40-140	4		50
1,4-Dichlorobenzene	74		78		28-104	5		50
3,3'-Dichlorobenzidine	63		67		40-140	6		50
2,4-Dinitrotoluene	107		111		40-132	4		50
2,6-Dinitrotoluene	107		112		40-140	5		50
Fluoranthene	86		89		40-140	3		50
4-Chlorophenyl phenyl ether	81		84		40-140	4		50
4-Bromophenyl phenyl ether	80		85		40-140	6		50
Bis(2-chloroisopropyl)ether	104		108		40-140	4		50
Bis(2-chloroethoxy)methane	82		86		40-117	5		50
Hexachlorobutadiene	77		80		40-140	4		50
Hexachlorocyclopentadiene	61		66		40-140	8		50
Hexachloroethane	75		78		40-140	4		50
Isophorone	84		88		40-140	5		50
Naphthalene	78		81		40-140	4		50
Nitrobenzene	86		90		40-140	5		50
NDPA/DPA	84		87		36-157	4		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,06,09,12,15,18,21,24,27 Batch: WG1111354-2 WG1111354-3								
n-Nitrosodi-n-propylamine	83		86		32-121	4		50
Bis(2-ethylhexyl)phthalate	91		94		40-140	3		50
Butyl benzyl phthalate	91		96		40-140	5		50
Di-n-butylphthalate	87		90		40-140	3		50
Di-n-octylphthalate	93		97		40-140	4		50
Diethyl phthalate	81		84		40-140	4		50
Dimethyl phthalate	88		92		40-140	4		50
Benzo(a)anthracene	82		86		40-140	5		50
Benzo(a)pyrene	84		88		40-140	5		50
Benzo(b)fluoranthene	83		88		40-140	6		50
Benzo(k)fluoranthene	84		86		40-140	2		50
Chrysene	82		85		40-140	4		50
Acenaphthylene	86		90		40-140	5		50
Anthracene	83		87		40-140	5		50
Benzo(ghi)perylene	82		85		40-140	4		50
Fluorene	83		86		40-140	4		50
Phenanthrene	82		85		40-140	4		50
Dibenzo(a,h)anthracene	81		84		40-140	4		50
Indeno(1,2,3-cd)pyrene	81		85		40-140	5		50
Pyrene	85		89		35-142	5		50
Biphenyl	84		88		54-104	5		50
4-Chloroaniline	79		82		40-140	4		50
2-Nitroaniline	106		113		47-134	6		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,06,09,12,15,18,21,24,27 Batch: WG1111354-2 WG1111354-3								
3-Nitroaniline	77		78		26-129	1		50
4-Nitroaniline	95		99		41-125	4		50
Dibenzofuran	81		84		40-140	4		50
2-Methylnaphthalene	80		83		40-140	4		50
1,2,4,5-Tetrachlorobenzene	82		85		40-117	4		50
Acetophenone	83		87		14-144	5		50
2,4,6-Trichlorophenol	91		94		30-130	3		50
p-Chloro-m-cresol	91		94		26-103	3		50
2-Chlorophenol	80		83		25-102	4		50
2,4-Dichlorophenol	89		94		30-130	5		50
2,4-Dimethylphenol	88		92		30-130	4		50
2-Nitrophenol	96		101		30-130	5		50
4-Nitrophenol	107		112		11-114	5		50
2,4-Dinitrophenol	68		72		4-130	6		50
4,6-Dinitro-o-cresol	100		106		10-130	6		50
Pentachlorophenol	70		75		17-109	7		50
Phenol	78		83		26-90	6		50
2-Methylphenol	85		89		30-130.	5		50
3-Methylphenol/4-Methylphenol	86		91		30-130	6		50
2,4,5-Trichlorophenol	93		96		30-130	3		50
Benzoic Acid	28		29		10-110	4		50
Benzyl Alcohol	86		90		40-140	5		50
Carbazole	88		92		54-128	4		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,06,09,12,15,18,21,24,27 Batch: WG1111354-2 WG1111354-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	82		85		25-120
Phenol-d6	86		90		10-120
Nitrobenzene-d5	91		95		23-120
2-Fluorobiphenyl	88		91		30-120
2,4,6-Tribromophenol	87		91		10-136
4-Terphenyl-d14	93		98		18-120

PCBS

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-03
Client ID: TP-2_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 14:20
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 01:14
Analyst: WR
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 08:21
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.2	4.22	1	A
Aroclor 1221	ND		ug/kg	37.2	5.66	1	A
Aroclor 1232	ND		ug/kg	37.2	3.66	1	A
Aroclor 1242	ND		ug/kg	37.2	4.55	1	A
Aroclor 1248	ND		ug/kg	37.2	4.17	1	A
Aroclor 1254	ND		ug/kg	37.2	3.03	1	A
Aroclor 1260	ND		ug/kg	37.2	3.88	1	A
Aroclor 1262	ND		ug/kg	37.2	3.06	1	A
Aroclor 1268	ND		ug/kg	37.2	2.63	1	A
PCBs, Total	ND		ug/kg	37.2	2.63	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-06
Client ID: TP-7A_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 13:30
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 01:26
Analyst: WR
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 08:21
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.0	4.19	1	A
Aroclor 1221	ND		ug/kg	37.0	5.63	1	A
Aroclor 1232	ND		ug/kg	37.0	3.64	1	A
Aroclor 1242	ND		ug/kg	37.0	4.53	1	A
Aroclor 1248	ND		ug/kg	37.0	4.15	1	A
Aroclor 1254	13.8	J	ug/kg	37.0	3.02	1	B
Aroclor 1260	11.1	J	ug/kg	37.0	3.86	1	B
Aroclor 1262	ND		ug/kg	37.0	3.04	1	A
Aroclor 1268	ND		ug/kg	37.0	2.62	1	A
PCBs, Total	24.9	J	ug/kg	37.0	2.62	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-09
Client ID: TP-7B_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 13:35
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 01:39
Analyst: WR
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 08:21
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.2	3.99	1	A
Aroclor 1221	ND		ug/kg	35.2	5.36	1	A
Aroclor 1232	ND		ug/kg	35.2	3.46	1	A
Aroclor 1242	ND		ug/kg	35.2	4.31	1	A
Aroclor 1248	ND		ug/kg	35.2	3.95	1	A
Aroclor 1254	ND		ug/kg	35.2	2.87	1	A
Aroclor 1260	ND		ug/kg	35.2	3.67	1	A
Aroclor 1262	ND		ug/kg	35.2	2.89	1	A
Aroclor 1268	ND		ug/kg	35.2	2.49	1	A
PCBs, Total	ND		ug/kg	35.2	2.49	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	61		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-12
Client ID: TP-12_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 10:40
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 01:51
Analyst: WR
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 08:21
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.5	4.26	1	A
Aroclor 1221	ND		ug/kg	37.5	5.71	1	A
Aroclor 1232	ND		ug/kg	37.5	3.69	1	A
Aroclor 1242	ND		ug/kg	37.5	4.60	1	A
Aroclor 1248	ND		ug/kg	37.5	4.21	1	A
Aroclor 1254	ND		ug/kg	37.5	3.06	1	A
Aroclor 1260	ND		ug/kg	37.5	3.92	1	A
Aroclor 1262	ND		ug/kg	37.5	3.09	1	A
Aroclor 1268	ND		ug/kg	37.5	2.66	1	A
PCBs, Total	ND		ug/kg	37.5	2.66	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-15
Client ID: TP-14A_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 12:05
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 02:04
Analyst: WR
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 08:21
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.3	4.00	1	A
Aroclor 1221	ND		ug/kg	35.3	5.37	1	A
Aroclor 1232	ND		ug/kg	35.3	3.47	1	A
Aroclor 1242	ND		ug/kg	35.3	4.32	1	A
Aroclor 1248	ND		ug/kg	35.3	3.96	1	A
Aroclor 1254	ND		ug/kg	35.3	2.88	1	A
Aroclor 1260	ND		ug/kg	35.3	3.69	1	A
Aroclor 1262	ND		ug/kg	35.3	2.90	1	A
Aroclor 1268	ND		ug/kg	35.3	2.50	1	A
PCBs, Total	ND		ug/kg	35.3	2.50	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	42		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-18
Client ID: TP-14B_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 12:20
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 02:16
Analyst: WR
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 08:21
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.9	4.07	1	A
Aroclor 1221	ND		ug/kg	35.9	5.46	1	A
Aroclor 1232	ND		ug/kg	35.9	3.53	1	A
Aroclor 1242	ND		ug/kg	35.9	4.39	1	A
Aroclor 1248	ND		ug/kg	35.9	4.02	1	A
Aroclor 1254	6.24	J	ug/kg	35.9	2.93	1	B
Aroclor 1260	5.82	J	ug/kg	35.9	3.74	1	B
Aroclor 1262	ND		ug/kg	35.9	2.95	1	A
Aroclor 1268	ND		ug/kg	35.9	2.54	1	A
PCBs, Total	12.1	J	ug/kg	35.9	2.54	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-21
Client ID: TP-20_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 08:55
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 02:28
Analyst: WR
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 08:21
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.8	4.06	1	A
Aroclor 1221	ND		ug/kg	35.8	5.45	1	A
Aroclor 1232	ND		ug/kg	35.8	3.52	1	A
Aroclor 1242	ND		ug/kg	35.8	4.38	1	A
Aroclor 1248	ND		ug/kg	35.8	4.02	1	A
Aroclor 1254	5.39	J	ug/kg	35.8	2.92	1	A
Aroclor 1260	4.40	J	ug/kg	35.8	3.74	1	B
Aroclor 1262	ND		ug/kg	35.8	2.94	1	A
Aroclor 1268	ND		ug/kg	35.8	2.54	1	A
PCBs, Total	9.79	J	ug/kg	35.8	2.54	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-24
Client ID: TP-22_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 08:05
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 02:41
Analyst: WR
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 08:21
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.9	3.96	1	A
Aroclor 1221	ND		ug/kg	34.9	5.31	1	A
Aroclor 1232	ND		ug/kg	34.9	3.43	1	A
Aroclor 1242	ND		ug/kg	34.9	4.27	1	A
Aroclor 1248	ND		ug/kg	34.9	3.91	1	A
Aroclor 1254	6.60	J	ug/kg	34.9	2.85	1	B
Aroclor 1260	4.78	J	ug/kg	34.9	3.64	1	B
Aroclor 1262	ND		ug/kg	34.9	2.87	1	A
Aroclor 1268	ND		ug/kg	34.9	2.47	1	A
PCBs, Total	11.4	J	ug/kg	34.9	2.47	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	71		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-27
Client ID: TP-28_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 09:45
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 02:53
Analyst: WR
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 08:21
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.7	4.05	1	A
Aroclor 1221	ND		ug/kg	35.7	5.44	1	A
Aroclor 1232	ND		ug/kg	35.7	3.52	1	A
Aroclor 1242	ND		ug/kg	35.7	4.38	1	A
Aroclor 1248	ND		ug/kg	35.7	4.01	1	A
Aroclor 1254	17.2	J	ug/kg	35.7	2.92	1	A
Aroclor 1260	8.57	J	ug/kg	35.7	3.73	1	B
Aroclor 1262	ND		ug/kg	35.7	2.94	1	A
Aroclor 1268	ND		ug/kg	35.7	2.53	1	A
PCBs, Total	25.8	J	ug/kg	35.7	2.53	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	46		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/01/18 09:16
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 05/01/18 01:12
Cleanup Method: EPA 3665A
Cleanup Date: 05/01/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/01/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03,06,09,12,15,18,21,24,27 Batch: WG1111234-1						
Aroclor 1016	ND		ug/kg	33.0	3.74	A
Aroclor 1221	ND		ug/kg	33.0	5.02	A
Aroclor 1232	ND		ug/kg	33.0	3.25	A
Aroclor 1242	ND		ug/kg	33.0	4.04	A
Aroclor 1248	ND		ug/kg	33.0	3.70	A
Aroclor 1254	ND		ug/kg	33.0	2.69	A
Aroclor 1260	ND		ug/kg	33.0	3.44	A
Aroclor 1262	ND		ug/kg	33.0	2.71	A
Aroclor 1268	ND		ug/kg	33.0	2.34	A
PCBs, Total	ND		ug/kg	33.0	2.34	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	67		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03,06,09,12,15,18,21,24,27 Batch: WG1111234-2 WG1111234-3									
Aroclor 1016	79		74		40-140	7		50	A
Aroclor 1260	72		69		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		89		30-150	A
Decachlorobiphenyl	56		54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		83		30-150	B
Decachlorobiphenyl	75		72		30-150	B

PESTICIDES

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-03
Client ID: TP-2_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 14:20
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/02/18 10:09
Analyst: JW
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 09:04
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.78	0.348	1	A
Lindane	ND		ug/kg	0.741	0.331	1	A
Alpha-BHC	ND		ug/kg	0.741	0.210	1	A
Beta-BHC	ND		ug/kg	1.78	0.675	1	A
Heptachlor	ND		ug/kg	0.890	0.399	1	A
Aldrin	ND		ug/kg	1.78	0.626	1	A
Heptachlor epoxide	ND		ug/kg	3.34	1.00	1	A
Endrin	ND		ug/kg	0.741	0.304	1	A
Endrin aldehyde	ND		ug/kg	2.22	0.778	1	A
Endrin ketone	ND		ug/kg	1.78	0.458	1	A
Dieldrin	ND		ug/kg	1.11	0.556	1	A
4,4'-DDE	ND		ug/kg	1.78	0.412	1	A
4,4'-DDD	ND		ug/kg	1.78	0.635	1	A
4,4'-DDT	ND		ug/kg	3.34	1.43	1	B
Endosulfan I	ND		ug/kg	1.78	0.420	1	A
Endosulfan II	ND		ug/kg	1.78	0.595	1	A
Endosulfan sulfate	ND		ug/kg	0.741	0.353	1	A
Methoxychlor	ND		ug/kg	3.34	1.04	1	A
Toxaphene	ND		ug/kg	33.4	9.34	1	A
cis-Chlordane	ND		ug/kg	2.22	0.620	1	A
trans-Chlordane	ND		ug/kg	2.22	0.587	1	A
Chlordane	ND		ug/kg	14.4	5.89	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-03
Client ID: TP-2_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 14:20
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	104		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	87		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-03
Client ID: TP-2_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 14:20
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/02/18 09:05
Analyst: SL
Percent Solids: 84%
Methylation Date: 05/01/18 21:32

Extraction Method: EPA 8151A
Extraction Date: 05/01/18 03:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	194	12.2	1	A
2,4,5-T	ND		ug/kg	194	6.02	1	A
2,4,5-TP (Silvex)	ND		ug/kg	194	5.16	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	112		30-150	A
DCAA	101		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-06
Client ID: TP-7A_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 13:30
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/02/18 10:22
Analyst: JW
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 09:04
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.76	0.346	1	A
Lindane	ND		ug/kg	0.735	0.329	1	A
Alpha-BHC	ND		ug/kg	0.735	0.209	1	A
Beta-BHC	ND		ug/kg	1.76	0.669	1	A
Heptachlor	ND		ug/kg	0.882	0.396	1	B
Aldrin	ND		ug/kg	1.76	0.621	1	A
Heptachlor epoxide	ND		ug/kg	3.31	0.993	1	A
Endrin	ND		ug/kg	0.735	0.302	1	A
Endrin aldehyde	ND		ug/kg	2.21	0.772	1	A
Endrin ketone	ND		ug/kg	1.76	0.454	1	A
Dieldrin	3.72		ug/kg	1.10	0.552	1	A
4,4'-DDE	8.74		ug/kg	1.76	0.408	1	A
4,4'-DDD	1.61	J	ug/kg	1.76	0.630	1	B
4,4'-DDT	21.5		ug/kg	3.31	1.42	1	A
Endosulfan I	ND		ug/kg	1.76	0.417	1	A
Endosulfan II	ND		ug/kg	1.76	0.590	1	A
Endosulfan sulfate	ND		ug/kg	0.735	0.350	1	A
Methoxychlor	ND		ug/kg	3.31	1.03	1	A
Toxaphene	ND		ug/kg	33.1	9.27	1	A
cis-Chlordane	3.45	P	ug/kg	2.21	0.615	1	A
trans-Chlordane	2.72	PI	ug/kg	2.21	0.582	1	A
Chlordane	19.8		ug/kg	14.3	5.85	1	A

Project Name: FORMER BICC
Lab Number: L1815263
Project Number: 056970006
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-06
Client ID: TP-7A_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 13:30
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	99		30-150	B
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	85		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-06
Client ID: TP-7A_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 13:30
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/02/18 09:24
Analyst: SL
Percent Solids: 89%
Methylation Date: 05/01/18 21:32

Extraction Method: EPA 8151A
Extraction Date: 05/01/18 03:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	181	11.4	1	A
2,4,5-T	ND		ug/kg	181	5.63	1	A
2,4,5-TP (Silvex)	ND		ug/kg	181	4.83	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	110		30-150	A
DCAA	103		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-09
Client ID: TP-7B_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 13:35
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/02/18 10:35
Analyst: JW
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 09:04
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.73	0.338	1	A
Lindane	ND		ug/kg	0.720	0.322	1	A
Alpha-BHC	ND		ug/kg	0.720	0.204	1	A
Beta-BHC	ND		ug/kg	1.73	0.655	1	A
Heptachlor	ND		ug/kg	0.863	0.387	1	A
Aldrin	ND		ug/kg	1.73	0.608	1	A
Heptachlor epoxide	ND		ug/kg	3.24	0.971	1	A
Endrin	ND		ug/kg	0.720	0.295	1	A
Endrin aldehyde	ND		ug/kg	2.16	0.756	1	A
Endrin ketone	ND		ug/kg	1.73	0.445	1	A
Dieldrin	ND		ug/kg	1.08	0.540	1	A
4,4'-DDE	1.10	J	ug/kg	1.73	0.399	1	A
4,4'-DDD	1.06	J	ug/kg	1.73	0.616	1	B
4,4'-DDT	3.34		ug/kg	3.24	1.39	1	A
Endosulfan I	ND		ug/kg	1.73	0.408	1	A
Endosulfan II	ND		ug/kg	1.73	0.577	1	A
Endosulfan sulfate	ND		ug/kg	0.720	0.342	1	A
Methoxychlor	ND		ug/kg	3.24	1.01	1	A
Toxaphene	ND		ug/kg	32.4	9.07	1	A
cis-Chlordane	ND		ug/kg	2.16	0.602	1	A
trans-Chlordane	ND		ug/kg	2.16	0.570	1	A
Chlordane	ND		ug/kg	14.0	5.72	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-09
Client ID: TP-7B_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 13:35
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	91		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	77		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-09
Client ID: TP-7B_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 13:35
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/02/18 09:42
Analyst: SL
Percent Solids: 89%
Methylation Date: 05/01/18 21:32

Extraction Method: EPA 8151A
Extraction Date: 05/01/18 03:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	182	11.5	1	A
2,4,5-T	ND		ug/kg	182	5.65	1	A
2,4,5-TP (Silvex)	ND		ug/kg	182	4.85	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	125		30-150	A
DCAA	110		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-12
Client ID: TP-12_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 10:40
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/02/18 10:48
Analyst: JW
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 09:04
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.77	0.347	1	A
Lindane	ND		ug/kg	0.739	0.330	1	A
Alpha-BHC	ND		ug/kg	0.739	0.210	1	A
Beta-BHC	ND		ug/kg	1.77	0.672	1	A
Heptachlor	ND		ug/kg	0.887	0.398	1	A
Aldrin	ND		ug/kg	1.77	0.624	1	A
Heptachlor epoxide	ND		ug/kg	3.32	0.997	1	A
Endrin	ND		ug/kg	0.739	0.303	1	A
Endrin aldehyde	ND		ug/kg	2.22	0.776	1	A
Endrin ketone	ND		ug/kg	1.77	0.457	1	A
Dieldrin	ND		ug/kg	1.11	0.554	1	A
4,4'-DDE	ND		ug/kg	1.77	0.410	1	B
4,4'-DDD	ND		ug/kg	1.77	0.632	1	A
4,4'-DDT	ND		ug/kg	3.32	1.43	1	B
Endosulfan I	ND		ug/kg	1.77	0.419	1	A
Endosulfan II	ND		ug/kg	1.77	0.592	1	A
Endosulfan sulfate	ND		ug/kg	0.739	0.352	1	A
Methoxychlor	ND		ug/kg	3.32	1.03	1	A
Toxaphene	ND		ug/kg	33.2	9.31	1	A
cis-Chlordane	ND		ug/kg	2.22	0.618	1	A
trans-Chlordane	ND		ug/kg	2.22	0.585	1	A
Chlordane	ND		ug/kg	14.4	5.87	1	A

Project Name: FORMER BICC
Lab Number: L1815263
Project Number: 056970006
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-12
Client ID: TP-12_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 10:40
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	99		30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	91		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-12
Client ID: TP-12_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 10:40
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/02/18 10:01
Analyst: SL
Percent Solids: 87%
Methylation Date: 05/01/18 21:32

Extraction Method: EPA 8151A
Extraction Date: 05/01/18 03:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	190	12.0	1	A
2,4,5-T	ND		ug/kg	190	5.90	1	A
2,4,5-TP (Silvex)	ND		ug/kg	190	5.06	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	123		30-150	A
DCAA	109		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-15
Client ID: TP-14A_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 12:05
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/02/18 11:01
Analyst: JW
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 09:04
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.75	0.343	1	A
Lindane	ND		ug/kg	0.731	0.327	1	A
Alpha-BHC	ND		ug/kg	0.731	0.208	1	A
Beta-BHC	ND		ug/kg	1.75	0.665	1	A
Heptachlor	ND		ug/kg	0.877	0.393	1	A
Aldrin	ND		ug/kg	1.75	0.618	1	A
Heptachlor epoxide	ND		ug/kg	3.29	0.987	1	A
Endrin	ND		ug/kg	0.731	0.300	1	A
Endrin aldehyde	ND		ug/kg	2.19	0.767	1	A
Endrin ketone	ND		ug/kg	1.75	0.452	1	A
Dieldrin	ND		ug/kg	1.10	0.548	1	A
4,4'-DDE	0.425	J	ug/kg	1.75	0.406	1	B
4,4'-DDD	ND		ug/kg	1.75	0.626	1	A
4,4'-DDT	3.36		ug/kg	3.29	1.41	1	A
Endosulfan I	ND		ug/kg	1.75	0.414	1	A
Endosulfan II	ND		ug/kg	1.75	0.586	1	A
Endosulfan sulfate	ND		ug/kg	0.731	0.348	1	A
Methoxychlor	ND		ug/kg	3.29	1.02	1	A
Toxaphene	ND		ug/kg	32.9	9.21	1	A
cis-Chlordane	ND		ug/kg	2.19	0.611	1	A
trans-Chlordane	ND		ug/kg	2.19	0.579	1	A
Chlordane	ND		ug/kg	14.2	5.81	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-15
Client ID: TP-14A_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 12:05
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	97		30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	84		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-15
Client ID: TP-14A_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 12:05
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/02/18 10:20
Analyst: SL
Percent Solids: 90%
Methylation Date: 05/01/18 21:32

Extraction Method: EPA 8151A
Extraction Date: 05/01/18 03:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	184	11.6	1	A
2,4,5-T	ND		ug/kg	184	5.69	1	A
2,4,5-TP (Silvex)	ND		ug/kg	184	4.88	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	132		30-150	A
DCAA	114		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-18
Client ID: TP-14B_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 12:20
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/02/18 11:13
Analyst: JW
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 09:04
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.72	0.337	1	A
Lindane	ND		ug/kg	0.717	0.321	1	A
Alpha-BHC	ND		ug/kg	0.717	0.204	1	A
Beta-BHC	ND		ug/kg	1.72	0.653	1	A
Heptachlor	ND		ug/kg	0.861	0.386	1	A
Aldrin	ND		ug/kg	1.72	0.606	1	A
Heptachlor epoxide	ND		ug/kg	3.23	0.968	1	A
Endrin	ND		ug/kg	0.717	0.294	1	A
Endrin aldehyde	ND		ug/kg	2.15	0.753	1	A
Endrin ketone	ND		ug/kg	1.72	0.443	1	A
Dieldrin	ND		ug/kg	1.08	0.538	1	A
4,4'-DDE	0.496	J	ug/kg	1.72	0.398	1	A
4,4'-DDD	ND		ug/kg	1.72	0.614	1	A
4,4'-DDT	3.57		ug/kg	3.23	1.38	1	A
Endosulfan I	ND		ug/kg	1.72	0.407	1	A
Endosulfan II	ND		ug/kg	1.72	0.575	1	A
Endosulfan sulfate	ND		ug/kg	0.717	0.341	1	A
Methoxychlor	ND		ug/kg	3.23	1.00	1	A
Toxaphene	ND		ug/kg	32.3	9.04	1	A
cis-Chlordane	ND		ug/kg	2.15	0.600	1	A
trans-Chlordane	ND		ug/kg	2.15	0.568	1	A
Chlordane	ND		ug/kg	14.0	5.70	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-18
Client ID: TP-14B_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 12:20
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	102		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	87		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-18
Client ID: TP-14B_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 12:20
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/02/18 10:39
Analyst: SL
Percent Solids: 89%
Methylation Date: 05/01/18 21:32

Extraction Method: EPA 8151A
Extraction Date: 05/01/18 03:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	182	11.5	1	A
2,4,5-T	ND		ug/kg	182	5.66	1	A
2,4,5-TP (Silvex)	ND		ug/kg	182	4.85	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	127		30-150	A
DCAA	110		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-21
Client ID: TP-20_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 08:55
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/02/18 11:26
Analyst: JW
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 09:04
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.72	0.337	1	A
Lindane	ND		ug/kg	0.716	0.320	1	A
Alpha-BHC	ND		ug/kg	0.716	0.203	1	A
Beta-BHC	ND		ug/kg	1.72	0.652	1	A
Heptachlor	ND		ug/kg	0.859	0.385	1	A
Aldrin	ND		ug/kg	1.72	0.605	1	A
Heptachlor epoxide	ND		ug/kg	3.22	0.967	1	A
Endrin	ND		ug/kg	0.716	0.294	1	A
Endrin aldehyde	ND		ug/kg	2.15	0.752	1	A
Endrin ketone	ND		ug/kg	1.72	0.443	1	A
Dieldrin	ND		ug/kg	1.07	0.537	1	A
4,4'-DDE	1.17	J	ug/kg	1.72	0.397	1	A
4,4'-DDD	ND		ug/kg	1.72	0.613	1	A
4,4'-DDT	2.51	J	ug/kg	3.22	1.38	1	B
Endosulfan I	ND		ug/kg	1.72	0.406	1	A
Endosulfan II	ND		ug/kg	1.72	0.574	1	A
Endosulfan sulfate	ND		ug/kg	0.716	0.341	1	A
Methoxychlor	ND		ug/kg	3.22	1.00	1	A
Toxaphene	ND		ug/kg	32.2	9.02	1	A
cis-Chlordane	ND		ug/kg	2.15	0.599	1	A
trans-Chlordane	ND		ug/kg	2.15	0.567	1	A
Chlordane	ND		ug/kg	14.0	5.69	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-21
Client ID: TP-20_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 08:55
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	99		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	86		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-21
Client ID: TP-20_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 08:55
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/02/18 10:58
Analyst: SL
Percent Solids: 92%
Methylation Date: 05/01/18 21:32

Extraction Method: EPA 8151A
Extraction Date: 05/01/18 03:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	178	11.2	1	A
2,4,5-T	ND		ug/kg	178	5.52	1	A
2,4,5-TP (Silvex)	ND		ug/kg	178	4.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	131		30-150	A
DCAA	116		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-24
Client ID: TP-22_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 08:05
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/02/18 11:39
Analyst: JW
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 09:04
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.65	0.323	1	A
Lindane	ND		ug/kg	0.687	0.307	1	A
Alpha-BHC	ND		ug/kg	0.687	0.195	1	A
Beta-BHC	ND		ug/kg	1.65	0.625	1	A
Heptachlor	ND		ug/kg	0.824	0.369	1	A
Aldrin	ND		ug/kg	1.65	0.580	1	A
Heptachlor epoxide	ND		ug/kg	3.09	0.927	1	A
Endrin	ND		ug/kg	0.687	0.282	1	A
Endrin aldehyde	ND		ug/kg	2.06	0.721	1	A
Endrin ketone	ND		ug/kg	1.65	0.424	1	A
Dieldrin	ND		ug/kg	1.03	0.515	1	A
4,4'-DDE	5.48		ug/kg	1.65	0.381	1	A
4,4'-DDD	ND		ug/kg	1.65	0.588	1	B
4,4'-DDT	3.26		ug/kg	3.09	1.32	1	A
Endosulfan I	ND		ug/kg	1.65	0.389	1	A
Endosulfan II	ND		ug/kg	1.65	0.551	1	A
Endosulfan sulfate	ND		ug/kg	0.687	0.327	1	A
Methoxychlor	ND		ug/kg	3.09	0.961	1	A
Toxaphene	ND		ug/kg	30.9	8.65	1	A
cis-Chlordane	ND		ug/kg	2.06	0.574	1	A
trans-Chlordane	ND		ug/kg	2.06	0.544	1	A
Chlordane	ND		ug/kg	13.4	5.46	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-24
Client ID: TP-22_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 08:05
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	101		30-150	B
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	89		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-24
Client ID: TP-22_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 08:05
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/02/18 11:17
Analyst: SL
Percent Solids: 92%
Methylation Date: 05/01/18 21:32

Extraction Method: EPA 8151A
Extraction Date: 05/01/18 03:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	178	11.2	1	A
2,4,5-T	ND		ug/kg	178	5.53	1	A
2,4,5-TP (Silvex)	ND		ug/kg	178	4.75	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	147		30-150	A
DCAA	125		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-27
Client ID: TP-28_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 09:45
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/02/18 11:52
Analyst: JW
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/01/18 09:04
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.70	0.334	1	A
Lindane	ND		ug/kg	0.710	0.317	1	A
Alpha-BHC	ND		ug/kg	0.710	0.202	1	A
Beta-BHC	ND		ug/kg	1.70	0.646	1	A
Heptachlor	ND		ug/kg	0.852	0.382	1	A
Aldrin	ND		ug/kg	1.70	0.600	1	A
Heptachlor epoxide	ND		ug/kg	3.19	0.958	1	A
Endrin	ND		ug/kg	0.710	0.291	1	A
Endrin aldehyde	ND		ug/kg	2.13	0.745	1	A
Endrin ketone	ND		ug/kg	1.70	0.439	1	A
Dieldrin	ND		ug/kg	1.06	0.532	1	A
4,4'-DDE	0.453	J	ug/kg	1.70	0.394	1	A
4,4'-DDD	ND		ug/kg	1.70	0.608	1	A
4,4'-DDT	3.29		ug/kg	3.19	1.37	1	B
Endosulfan I	ND		ug/kg	1.70	0.402	1	A
Endosulfan II	ND		ug/kg	1.70	0.569	1	A
Endosulfan sulfate	ND		ug/kg	0.710	0.338	1	A
Methoxychlor	ND		ug/kg	3.19	0.994	1	A
Toxaphene	ND		ug/kg	31.9	8.94	1	A
cis-Chlordane	ND		ug/kg	2.13	0.593	1	A
trans-Chlordane	ND		ug/kg	2.13	0.562	1	A
Chlordane	ND		ug/kg	13.8	5.64	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-27
Client ID: TP-28_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 09:45
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	96		30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	95		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-27
Client ID: TP-28_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 09:45
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/02/18 11:35
Analyst: SL
Percent Solids: 92%
Methylation Date: 05/01/18 21:32

Extraction Method: EPA 8151A
Extraction Date: 05/01/18 03:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	182	11.4	1	A
2,4,5-T	ND		ug/kg	182	5.63	1	A
2,4,5-TP (Silvex)	ND		ug/kg	182	4.83	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	111		30-150	A
DCAA	103		30-150	B

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/01/18 11:49
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 05/01/18 00:40
Cleanup Method: EPA 3620B
Cleanup Date: 05/01/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03,06,09,12,15,18,21,24,27 Batch: WG1111230-1						
Delta-BHC	ND		ug/kg	1.57	0.308	A
Lindane	ND		ug/kg	0.656	0.293	A
Alpha-BHC	ND		ug/kg	0.656	0.186	A
Beta-BHC	ND		ug/kg	1.57	0.597	A
Heptachlor	ND		ug/kg	0.787	0.353	A
Aldrin	ND		ug/kg	1.57	0.554	A
Heptachlor epoxide	ND		ug/kg	2.95	0.886	A
Endrin	ND		ug/kg	0.656	0.269	A
Endrin aldehyde	ND		ug/kg	1.97	0.689	A
Endrin ketone	ND		ug/kg	1.57	0.406	A
Dieldrin	ND		ug/kg	0.984	0.492	A
4,4'-DDE	ND		ug/kg	1.57	0.364	A
4,4'-DDD	ND		ug/kg	1.57	0.562	A
4,4'-DDT	ND		ug/kg	2.95	1.27	A
Endosulfan I	ND		ug/kg	1.57	0.372	A
Endosulfan II	ND		ug/kg	1.57	0.526	A
Endosulfan sulfate	ND		ug/kg	0.656	0.312	A
Methoxychlor	ND		ug/kg	2.95	0.919	A
Toxaphene	ND		ug/kg	29.5	8.27	A
cis-Chlordane	ND		ug/kg	1.97	0.548	A
trans-Chlordane	ND		ug/kg	1.97	0.520	A
Chlordane	ND		ug/kg	12.8	5.22	A

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/01/18 11:49
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 05/01/18 00:40
Cleanup Method: EPA 3620B
Cleanup Date: 05/01/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03,06,09,12,15,18,21,24,27 Batch: WG1111230-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	95		30-150	B
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	97		30-150	A

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 05/01/18 12:03
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 04/30/18 07:52

Methylation Date: 05/01/18 00:54

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 03,06,09,12,15,18,21,24,27 Batch: WG1111252-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.02	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.31	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	116		30-150	A
DCAA	131		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815263

Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03,06,09,12,15,18,21,24,27 Batch: WG1111230-2 WG1111230-3									
Delta-BHC	99		73		30-150	30		30	A
Lindane	89		66		30-150	30		30	A
Alpha-BHC	95		71		30-150	29		30	A
Beta-BHC	97		75		30-150	26		30	A
Heptachlor	95		67		30-150	**35**	Q	30	A
Aldrin	89		66		30-150	30		30	A
Heptachlor epoxide	96		74		30-150	26		30	A
Endrin	102		76		30-150	29		30	A
Endrin aldehyde	77		55		30-150	**33**	Q	30	A
Endrin ketone	85		63		30-150	30		30	A
Dieldrin	96		72		30-150	29		30	A
4,4'-DDE	89		66		30-150	30		30	A
4,4'-DDD	88		62		30-150	**35**	Q	30	A
4,4'-DDT	91		69		30-150	28		30	A
Endosulfan I	85		64		30-150	28		30	A
Endosulfan II	84		63		30-150	29		30	A
Endosulfan sulfate	72		53		30-150	30		30	A
Methoxychlor	93		71		30-150	27		30	A
cis-Chlordane	76		60		30-150	24		30	A
trans-Chlordane	70		54		30-150	26		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815263

Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03,06,09,12,15,18,21,24,27 Batch: WG1111230-2 WG1111230-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		68		30-150	B
Decachlorobiphenyl	100		77		30-150	B
2,4,5,6-Tetrachloro-m-xylene	69		53		30-150	A
Decachlorobiphenyl	100		79		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815263

Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 03,06,09,12,15,18,21,24,27 Batch: WG1111252-2 WG1111252-3									
2,4-D	78		89		30-150	13		30	A
2,4,5-T	86		93		30-150	8		30	A
2,4,5-TP (Silvex)	76		82		30-150	8		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	98		105		30-150	A
DCAA	112		121		30-150	B

METALS

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-03
Client ID: TP-2_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 14:20
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	19100		mg/kg	8.91	2.40	2	05/02/18 21:00	05/03/18 16:45	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.45	0.338	2	05/02/18 21:00	05/03/18 16:45	EPA 3050B	1,6010C	AB
Arsenic, Total	1.18		mg/kg	0.891	0.185	2	05/02/18 21:00	05/03/18 16:45	EPA 3050B	1,6010C	AB
Barium, Total	202		mg/kg	0.891	0.155	2	05/02/18 21:00	05/03/18 16:45	EPA 3050B	1,6010C	AB
Beryllium, Total	0.392	J	mg/kg	0.445	0.029	2	05/02/18 21:00	05/03/18 16:45	EPA 3050B	1,6010C	AB
Cadmium, Total	0.419	J	mg/kg	0.891	0.087	2	05/02/18 21:00	05/03/18 16:45	EPA 3050B	1,6010C	AB
Calcium, Total	4990		mg/kg	8.91	3.12	2	05/02/18 21:00	05/03/18 16:45	EPA 3050B	1,6010C	AB
Chromium, Total	34.9		mg/kg	0.891	0.086	2	05/02/18 21:00	05/03/18 16:45	EPA 3050B	1,6010C	AB
Cobalt, Total	17.2		mg/kg	1.78	0.148	2	05/02/18 21:00	05/03/18 16:45	EPA 3050B	1,6010C	AB
Copper, Total	47.4		mg/kg	0.891	0.230	2	05/02/18 21:00	05/03/18 16:45	EPA 3050B	1,6010C	AB
Iron, Total	28700		mg/kg	4.45	0.804	2	05/02/18 21:00	05/03/18 16:45	EPA 3050B	1,6010C	AB
Lead, Total	8.67		mg/kg	4.45	0.239	2	05/02/18 21:00	05/03/18 16:45	EPA 3050B	1,6010C	AB
Magnesium, Total	9950		mg/kg	8.91	1.37	2	05/02/18 21:00	05/03/18 16:45	EPA 3050B	1,6010C	AB
Manganese, Total	324		mg/kg	0.891	0.142	2	05/02/18 21:00	05/03/18 16:45	EPA 3050B	1,6010C	AB
Mercury, Total	0.017	J	mg/kg	0.074	0.016	1	05/01/18 07:00	05/01/18 22:08	EPA 7471B	1,7471B	EA
Nickel, Total	26.3		mg/kg	2.23	0.216	2	05/02/18 21:00	05/03/18 16:45	EPA 3050B	1,6010C	AB
Potassium, Total	9830		mg/kg	223	12.8	2	05/02/18 21:00	05/03/18 16:45	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.78	0.230	2	05/02/18 21:00	05/03/18 16:45	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.891	0.252	2	05/02/18 21:00	05/03/18 16:45	EPA 3050B	1,6010C	AB
Sodium, Total	247		mg/kg	178	2.81	2	05/02/18 21:00	05/03/18 16:45	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.78	0.281	2	05/02/18 21:00	05/03/18 16:45	EPA 3050B	1,6010C	AB
Vanadium, Total	59.3		mg/kg	0.891	0.181	2	05/02/18 21:00	05/03/18 16:45	EPA 3050B	1,6010C	AB
Zinc, Total	70.0		mg/kg	4.45	0.261	2	05/02/18 21:00	05/03/18 16:45	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	35		mg/kg	0.95	0.95	1		05/03/18 16:45	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-06
Client ID: TP-7A_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 13:30
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10800		mg/kg	8.93	2.41	2	05/02/18 21:00	05/03/18 16:50	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.46	0.339	2	05/02/18 21:00	05/03/18 16:50	EPA 3050B	1,6010C	AB
Arsenic, Total	3.29		mg/kg	0.893	0.186	2	05/02/18 21:00	05/03/18 16:50	EPA 3050B	1,6010C	AB
Barium, Total	123		mg/kg	0.893	0.155	2	05/02/18 21:00	05/03/18 16:50	EPA 3050B	1,6010C	AB
Beryllium, Total	0.286	J	mg/kg	0.446	0.030	2	05/02/18 21:00	05/03/18 16:50	EPA 3050B	1,6010C	AB
Cadmium, Total	0.384	J	mg/kg	0.893	0.088	2	05/02/18 21:00	05/03/18 16:50	EPA 3050B	1,6010C	AB
Calcium, Total	23000		mg/kg	8.93	3.12	2	05/02/18 21:00	05/03/18 16:50	EPA 3050B	1,6010C	AB
Chromium, Total	23.7		mg/kg	0.893	0.086	2	05/02/18 21:00	05/03/18 16:50	EPA 3050B	1,6010C	AB
Cobalt, Total	9.96		mg/kg	1.78	0.148	2	05/02/18 21:00	05/03/18 16:50	EPA 3050B	1,6010C	AB
Copper, Total	27.1		mg/kg	0.893	0.230	2	05/02/18 21:00	05/03/18 16:50	EPA 3050B	1,6010C	AB
Iron, Total	18800		mg/kg	4.46	0.806	2	05/02/18 21:00	05/03/18 16:50	EPA 3050B	1,6010C	AB
Lead, Total	39.6		mg/kg	4.46	0.239	2	05/02/18 21:00	05/03/18 16:50	EPA 3050B	1,6010C	AB
Magnesium, Total	5780		mg/kg	8.93	1.38	2	05/02/18 21:00	05/03/18 16:50	EPA 3050B	1,6010C	AB
Manganese, Total	256		mg/kg	0.893	0.142	2	05/02/18 21:00	05/03/18 16:50	EPA 3050B	1,6010C	AB
Mercury, Total	0.058	J	mg/kg	0.070	0.015	1	05/01/18 07:00	05/01/18 22:10	EPA 7471B	1,7471B	EA
Nickel, Total	17.6		mg/kg	2.23	0.216	2	05/02/18 21:00	05/03/18 16:50	EPA 3050B	1,6010C	AB
Potassium, Total	5050		mg/kg	223	12.8	2	05/02/18 21:00	05/03/18 16:50	EPA 3050B	1,6010C	AB
Selenium, Total	0.518	J	mg/kg	1.78	0.230	2	05/02/18 21:00	05/03/18 16:50	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.893	0.253	2	05/02/18 21:00	05/03/18 16:50	EPA 3050B	1,6010C	AB
Sodium, Total	322		mg/kg	178	2.81	2	05/02/18 21:00	05/03/18 16:50	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.78	0.281	2	05/02/18 21:00	05/03/18 16:50	EPA 3050B	1,6010C	AB
Vanadium, Total	31.9		mg/kg	0.893	0.181	2	05/02/18 21:00	05/03/18 16:50	EPA 3050B	1,6010C	AB
Zinc, Total	74.2		mg/kg	4.46	0.262	2	05/02/18 21:00	05/03/18 16:50	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	24		mg/kg	0.90	0.90	1		05/03/18 16:50	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-09
Client ID: TP-7B_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 13:35
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	21400		mg/kg	8.77	2.37	2	05/02/18 21:00	05/03/18 16:54	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.39	0.333	2	05/02/18 21:00	05/03/18 16:54	EPA 3050B	1,6010C	AB
Arsenic, Total	1.12		mg/kg	0.877	0.182	2	05/02/18 21:00	05/03/18 16:54	EPA 3050B	1,6010C	AB
Barium, Total	208		mg/kg	0.877	0.153	2	05/02/18 21:00	05/03/18 16:54	EPA 3050B	1,6010C	AB
Beryllium, Total	0.491		mg/kg	0.439	0.029	2	05/02/18 21:00	05/03/18 16:54	EPA 3050B	1,6010C	AB
Cadmium, Total	0.404	J	mg/kg	0.877	0.086	2	05/02/18 21:00	05/03/18 16:54	EPA 3050B	1,6010C	AB
Calcium, Total	2240		mg/kg	8.77	3.07	2	05/02/18 21:00	05/03/18 16:54	EPA 3050B	1,6010C	AB
Chromium, Total	33.1		mg/kg	0.877	0.084	2	05/02/18 21:00	05/03/18 16:54	EPA 3050B	1,6010C	AB
Cobalt, Total	17.3		mg/kg	1.75	0.146	2	05/02/18 21:00	05/03/18 16:54	EPA 3050B	1,6010C	AB
Copper, Total	49.5		mg/kg	0.877	0.226	2	05/02/18 21:00	05/03/18 16:54	EPA 3050B	1,6010C	AB
Iron, Total	27600		mg/kg	4.39	0.792	2	05/02/18 21:00	05/03/18 16:54	EPA 3050B	1,6010C	AB
Lead, Total	10.5		mg/kg	4.39	0.235	2	05/02/18 21:00	05/03/18 16:54	EPA 3050B	1,6010C	AB
Magnesium, Total	9000		mg/kg	8.77	1.35	2	05/02/18 21:00	05/03/18 16:54	EPA 3050B	1,6010C	AB
Manganese, Total	270		mg/kg	0.877	0.139	2	05/02/18 21:00	05/03/18 16:54	EPA 3050B	1,6010C	AB
Mercury, Total	0.028	J	mg/kg	0.070	0.015	1	05/01/18 07:00	05/01/18 22:12	EPA 7471B	1,7471B	EA
Nickel, Total	28.0		mg/kg	2.19	0.212	2	05/02/18 21:00	05/03/18 16:54	EPA 3050B	1,6010C	AB
Potassium, Total	8160		mg/kg	219	12.6	2	05/02/18 21:00	05/03/18 16:54	EPA 3050B	1,6010C	AB
Selenium, Total	0.395	J	mg/kg	1.75	0.226	2	05/02/18 21:00	05/03/18 16:54	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.877	0.248	2	05/02/18 21:00	05/03/18 16:54	EPA 3050B	1,6010C	AB
Sodium, Total	199		mg/kg	175	2.76	2	05/02/18 21:00	05/03/18 16:54	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.75	0.276	2	05/02/18 21:00	05/03/18 16:54	EPA 3050B	1,6010C	AB
Vanadium, Total	56.3		mg/kg	0.877	0.178	2	05/02/18 21:00	05/03/18 16:54	EPA 3050B	1,6010C	AB
Zinc, Total	69.0		mg/kg	4.39	0.257	2	05/02/18 21:00	05/03/18 16:54	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	33		mg/kg	0.90	0.90	1		05/03/18 16:54	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-12
Client ID: TP-12_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 10:40
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12700		mg/kg	9.17	2.48	2	05/02/18 21:00	05/03/18 17:13	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.58	0.348	2	05/02/18 21:00	05/03/18 17:13	EPA 3050B	1,6010C	AB
Arsenic, Total	0.568	J	mg/kg	0.917	0.191	2	05/02/18 21:00	05/03/18 17:13	EPA 3050B	1,6010C	AB
Barium, Total	150		mg/kg	0.917	0.160	2	05/02/18 21:00	05/03/18 17:13	EPA 3050B	1,6010C	AB
Beryllium, Total	0.229	J	mg/kg	0.458	0.030	2	05/02/18 21:00	05/03/18 17:13	EPA 3050B	1,6010C	AB
Cadmium, Total	0.321	J	mg/kg	0.917	0.090	2	05/02/18 21:00	05/03/18 17:13	EPA 3050B	1,6010C	AB
Calcium, Total	2620		mg/kg	9.17	3.21	2	05/02/18 21:00	05/03/18 17:13	EPA 3050B	1,6010C	AB
Chromium, Total	22.0		mg/kg	0.917	0.088	2	05/02/18 21:00	05/03/18 17:13	EPA 3050B	1,6010C	AB
Cobalt, Total	13.8		mg/kg	1.83	0.152	2	05/02/18 21:00	05/03/18 17:13	EPA 3050B	1,6010C	AB
Copper, Total	25.2		mg/kg	0.917	0.236	2	05/02/18 21:00	05/03/18 17:13	EPA 3050B	1,6010C	AB
Iron, Total	23000		mg/kg	4.58	0.828	2	05/02/18 21:00	05/03/18 17:13	EPA 3050B	1,6010C	AB
Lead, Total	4.69		mg/kg	4.58	0.246	2	05/02/18 21:00	05/03/18 17:13	EPA 3050B	1,6010C	AB
Magnesium, Total	6540		mg/kg	9.17	1.41	2	05/02/18 21:00	05/03/18 17:13	EPA 3050B	1,6010C	AB
Manganese, Total	186		mg/kg	0.917	0.146	2	05/02/18 21:00	05/03/18 17:13	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.072	0.015	1	05/01/18 07:00	05/01/18 22:14	EPA 7471B	1,7471B	EA
Nickel, Total	19.8		mg/kg	2.29	0.222	2	05/02/18 21:00	05/03/18 17:13	EPA 3050B	1,6010C	AB
Potassium, Total	7930		mg/kg	229	13.2	2	05/02/18 21:00	05/03/18 17:13	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.83	0.236	2	05/02/18 21:00	05/03/18 17:13	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.917	0.259	2	05/02/18 21:00	05/03/18 17:13	EPA 3050B	1,6010C	AB
Sodium, Total	141	J	mg/kg	183	2.89	2	05/02/18 21:00	05/03/18 17:13	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.83	0.289	2	05/02/18 21:00	05/03/18 17:13	EPA 3050B	1,6010C	AB
Vanadium, Total	36.1		mg/kg	0.917	0.186	2	05/02/18 21:00	05/03/18 17:13	EPA 3050B	1,6010C	AB
Zinc, Total	57.7		mg/kg	4.58	0.269	2	05/02/18 21:00	05/03/18 17:13	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	22		mg/kg	0.92	0.92	1		05/03/18 17:13	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-15
Client ID: TP-14A_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 12:05
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	14000		mg/kg	8.60	2.32	2	05/02/18 21:00	05/03/18 17:17	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.30	0.327	2	05/02/18 21:00	05/03/18 17:17	EPA 3050B	1,6010C	AB
Arsenic, Total	1.10		mg/kg	0.860	0.179	2	05/02/18 21:00	05/03/18 17:17	EPA 3050B	1,6010C	AB
Barium, Total	152		mg/kg	0.860	0.150	2	05/02/18 21:00	05/03/18 17:17	EPA 3050B	1,6010C	AB
Beryllium, Total	0.301	J	mg/kg	0.430	0.028	2	05/02/18 21:00	05/03/18 17:17	EPA 3050B	1,6010C	AB
Cadmium, Total	0.378	J	mg/kg	0.860	0.084	2	05/02/18 21:00	05/03/18 17:17	EPA 3050B	1,6010C	AB
Calcium, Total	2580		mg/kg	8.60	3.01	2	05/02/18 21:00	05/03/18 17:17	EPA 3050B	1,6010C	AB
Chromium, Total	25.3		mg/kg	0.860	0.083	2	05/02/18 21:00	05/03/18 17:17	EPA 3050B	1,6010C	AB
Cobalt, Total	14.8		mg/kg	1.72	0.143	2	05/02/18 21:00	05/03/18 17:17	EPA 3050B	1,6010C	AB
Copper, Total	27.9		mg/kg	0.860	0.222	2	05/02/18 21:00	05/03/18 17:17	EPA 3050B	1,6010C	AB
Iron, Total	25600		mg/kg	4.30	0.776	2	05/02/18 21:00	05/03/18 17:17	EPA 3050B	1,6010C	AB
Lead, Total	16.3		mg/kg	4.30	0.230	2	05/02/18 21:00	05/03/18 17:17	EPA 3050B	1,6010C	AB
Magnesium, Total	6990		mg/kg	8.60	1.32	2	05/02/18 21:00	05/03/18 17:17	EPA 3050B	1,6010C	AB
Manganese, Total	264		mg/kg	0.860	0.137	2	05/02/18 21:00	05/03/18 17:17	EPA 3050B	1,6010C	AB
Mercury, Total	0.067	J	mg/kg	0.070	0.015	1	05/01/18 07:00	05/01/18 22:16	EPA 7471B	1,7471B	EA
Nickel, Total	21.7		mg/kg	2.15	0.208	2	05/02/18 21:00	05/03/18 17:17	EPA 3050B	1,6010C	AB
Potassium, Total	7730		mg/kg	215	12.4	2	05/02/18 21:00	05/03/18 17:17	EPA 3050B	1,6010C	AB
Selenium, Total	0.344	J	mg/kg	1.72	0.222	2	05/02/18 21:00	05/03/18 17:17	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.860	0.243	2	05/02/18 21:00	05/03/18 17:17	EPA 3050B	1,6010C	AB
Sodium, Total	157	J	mg/kg	172	2.71	2	05/02/18 21:00	05/03/18 17:17	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.72	0.271	2	05/02/18 21:00	05/03/18 17:17	EPA 3050B	1,6010C	AB
Vanadium, Total	41.4		mg/kg	0.860	0.174	2	05/02/18 21:00	05/03/18 17:17	EPA 3050B	1,6010C	AB
Zinc, Total	66.6		mg/kg	4.30	0.252	2	05/02/18 21:00	05/03/18 17:17	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	25		mg/kg	0.89	0.89	1		05/03/18 17:17	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-18
Client ID: TP-14B_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 12:20
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12300		mg/kg	8.91	2.40	2	05/02/18 21:00	05/03/18 17:22	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.45	0.338	2	05/02/18 21:00	05/03/18 17:22	EPA 3050B	1,6010C	AB
Arsenic, Total	0.677	J	mg/kg	0.891	0.185	2	05/02/18 21:00	05/03/18 17:22	EPA 3050B	1,6010C	AB
Barium, Total	136		mg/kg	0.891	0.155	2	05/02/18 21:00	05/03/18 17:22	EPA 3050B	1,6010C	AB
Beryllium, Total	0.285	J	mg/kg	0.445	0.029	2	05/02/18 21:00	05/03/18 17:22	EPA 3050B	1,6010C	AB
Cadmium, Total	0.330	J	mg/kg	0.891	0.087	2	05/02/18 21:00	05/03/18 17:22	EPA 3050B	1,6010C	AB
Calcium, Total	1620		mg/kg	8.91	3.12	2	05/02/18 21:00	05/03/18 17:22	EPA 3050B	1,6010C	AB
Chromium, Total	20.0		mg/kg	0.891	0.086	2	05/02/18 21:00	05/03/18 17:22	EPA 3050B	1,6010C	AB
Cobalt, Total	13.6		mg/kg	1.78	0.148	2	05/02/18 21:00	05/03/18 17:22	EPA 3050B	1,6010C	AB
Copper, Total	26.9		mg/kg	0.891	0.230	2	05/02/18 21:00	05/03/18 17:22	EPA 3050B	1,6010C	AB
Iron, Total	22000		mg/kg	4.45	0.804	2	05/02/18 21:00	05/03/18 17:22	EPA 3050B	1,6010C	AB
Lead, Total	10.6		mg/kg	4.45	0.239	2	05/02/18 21:00	05/03/18 17:22	EPA 3050B	1,6010C	AB
Magnesium, Total	5900		mg/kg	8.91	1.37	2	05/02/18 21:00	05/03/18 17:22	EPA 3050B	1,6010C	AB
Manganese, Total	228		mg/kg	0.891	0.142	2	05/02/18 21:00	05/03/18 17:22	EPA 3050B	1,6010C	AB
Mercury, Total	0.046	J	mg/kg	0.073	0.016	1	05/01/18 07:00	05/01/18 22:17	EPA 7471B	1,7471B	EA
Nickel, Total	19.2		mg/kg	2.23	0.216	2	05/02/18 21:00	05/03/18 17:22	EPA 3050B	1,6010C	AB
Potassium, Total	6960		mg/kg	223	12.8	2	05/02/18 21:00	05/03/18 17:22	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.78	0.230	2	05/02/18 21:00	05/03/18 17:22	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.891	0.252	2	05/02/18 21:00	05/03/18 17:22	EPA 3050B	1,6010C	AB
Sodium, Total	118	J	mg/kg	178	2.80	2	05/02/18 21:00	05/03/18 17:22	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.78	0.280	2	05/02/18 21:00	05/03/18 17:22	EPA 3050B	1,6010C	AB
Vanadium, Total	34.1		mg/kg	0.891	0.181	2	05/02/18 21:00	05/03/18 17:22	EPA 3050B	1,6010C	AB
Zinc, Total	59.2		mg/kg	4.45	0.261	2	05/02/18 21:00	05/03/18 17:22	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	20		mg/kg	0.90	0.90	1		05/03/18 17:22	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-21
Client ID: TP-20_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 08:55
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11100		mg/kg	8.55	2.31	2	05/02/18 21:00	05/03/18 17:27	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.28	0.325	2	05/02/18 21:00	05/03/18 17:27	EPA 3050B	1,6010C	AB
Arsenic, Total	2.15		mg/kg	0.855	0.178	2	05/02/18 21:00	05/03/18 17:27	EPA 3050B	1,6010C	AB
Barium, Total	108		mg/kg	0.855	0.149	2	05/02/18 21:00	05/03/18 17:27	EPA 3050B	1,6010C	AB
Beryllium, Total	0.299	J	mg/kg	0.428	0.028	2	05/02/18 21:00	05/03/18 17:27	EPA 3050B	1,6010C	AB
Cadmium, Total	0.274	J	mg/kg	0.855	0.084	2	05/02/18 21:00	05/03/18 17:27	EPA 3050B	1,6010C	AB
Calcium, Total	1760		mg/kg	8.55	2.99	2	05/02/18 21:00	05/03/18 17:27	EPA 3050B	1,6010C	AB
Chromium, Total	26.8		mg/kg	0.855	0.082	2	05/02/18 21:00	05/03/18 17:27	EPA 3050B	1,6010C	AB
Cobalt, Total	10.0		mg/kg	1.71	0.142	2	05/02/18 21:00	05/03/18 17:27	EPA 3050B	1,6010C	AB
Copper, Total	18.2		mg/kg	0.855	0.221	2	05/02/18 21:00	05/03/18 17:27	EPA 3050B	1,6010C	AB
Iron, Total	17600		mg/kg	4.28	0.772	2	05/02/18 21:00	05/03/18 17:27	EPA 3050B	1,6010C	AB
Lead, Total	20.9		mg/kg	4.28	0.229	2	05/02/18 21:00	05/03/18 17:27	EPA 3050B	1,6010C	AB
Magnesium, Total	5800		mg/kg	8.55	1.32	2	05/02/18 21:00	05/03/18 17:27	EPA 3050B	1,6010C	AB
Manganese, Total	305		mg/kg	0.855	0.136	2	05/02/18 21:00	05/03/18 17:27	EPA 3050B	1,6010C	AB
Mercury, Total	0.072		mg/kg	0.068	0.014	1	05/01/18 07:00	05/01/18 22:19	EPA 7471B	1,7471B	EA
Nickel, Total	17.6		mg/kg	2.14	0.207	2	05/02/18 21:00	05/03/18 17:27	EPA 3050B	1,6010C	AB
Potassium, Total	4990		mg/kg	214	12.3	2	05/02/18 21:00	05/03/18 17:27	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.71	0.221	2	05/02/18 21:00	05/03/18 17:27	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.855	0.242	2	05/02/18 21:00	05/03/18 17:27	EPA 3050B	1,6010C	AB
Sodium, Total	99.5	J	mg/kg	171	2.69	2	05/02/18 21:00	05/03/18 17:27	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.71	0.269	2	05/02/18 21:00	05/03/18 17:27	EPA 3050B	1,6010C	AB
Vanadium, Total	31.5		mg/kg	0.855	0.174	2	05/02/18 21:00	05/03/18 17:27	EPA 3050B	1,6010C	AB
Zinc, Total	47.8		mg/kg	4.28	0.250	2	05/02/18 21:00	05/03/18 17:27	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	27		mg/kg	0.87	0.87	1		05/03/18 17:27	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-24
Client ID: TP-22_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 08:05
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11600		mg/kg	8.41	2.27	2	05/02/18 21:00	05/03/18 17:31	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.21	0.320	2	05/02/18 21:00	05/03/18 17:31	EPA 3050B	1,6010C	AB
Arsenic, Total	1.91		mg/kg	0.841	0.175	2	05/02/18 21:00	05/03/18 17:31	EPA 3050B	1,6010C	AB
Barium, Total	107		mg/kg	0.841	0.146	2	05/02/18 21:00	05/03/18 17:31	EPA 3050B	1,6010C	AB
Beryllium, Total	0.278	J	mg/kg	0.421	0.028	2	05/02/18 21:00	05/03/18 17:31	EPA 3050B	1,6010C	AB
Cadmium, Total	0.278	J	mg/kg	0.841	0.082	2	05/02/18 21:00	05/03/18 17:31	EPA 3050B	1,6010C	AB
Calcium, Total	1880		mg/kg	8.41	2.94	2	05/02/18 21:00	05/03/18 17:31	EPA 3050B	1,6010C	AB
Chromium, Total	19.6		mg/kg	0.841	0.081	2	05/02/18 21:00	05/03/18 17:31	EPA 3050B	1,6010C	AB
Cobalt, Total	9.76		mg/kg	1.68	0.140	2	05/02/18 21:00	05/03/18 17:31	EPA 3050B	1,6010C	AB
Copper, Total	17.4		mg/kg	0.841	0.217	2	05/02/18 21:00	05/03/18 17:31	EPA 3050B	1,6010C	AB
Iron, Total	18200		mg/kg	4.21	0.760	2	05/02/18 21:00	05/03/18 17:31	EPA 3050B	1,6010C	AB
Lead, Total	17.8		mg/kg	4.21	0.225	2	05/02/18 21:00	05/03/18 17:31	EPA 3050B	1,6010C	AB
Magnesium, Total	5890		mg/kg	8.41	1.30	2	05/02/18 21:00	05/03/18 17:31	EPA 3050B	1,6010C	AB
Manganese, Total	281		mg/kg	0.841	0.134	2	05/02/18 21:00	05/03/18 17:31	EPA 3050B	1,6010C	AB
Mercury, Total	0.073		mg/kg	0.068	0.014	1	05/01/18 07:00	05/01/18 22:21	EPA 7471B	1,7471B	EA
Nickel, Total	13.4		mg/kg	2.10	0.204	2	05/02/18 21:00	05/03/18 17:31	EPA 3050B	1,6010C	AB
Potassium, Total	4750		mg/kg	210	12.1	2	05/02/18 21:00	05/03/18 17:31	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.68	0.217	2	05/02/18 21:00	05/03/18 17:31	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.841	0.238	2	05/02/18 21:00	05/03/18 17:31	EPA 3050B	1,6010C	AB
Sodium, Total	95.7	J	mg/kg	168	2.65	2	05/02/18 21:00	05/03/18 17:31	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.68	0.265	2	05/02/18 21:00	05/03/18 17:31	EPA 3050B	1,6010C	AB
Vanadium, Total	32.1		mg/kg	0.841	0.171	2	05/02/18 21:00	05/03/18 17:31	EPA 3050B	1,6010C	AB
Zinc, Total	47.9		mg/kg	4.21	0.246	2	05/02/18 21:00	05/03/18 17:31	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	20		mg/kg	0.87	0.87	1		05/03/18 17:31	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-27
Client ID: TP-28_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 09:45
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11500		mg/kg	8.59	2.32	2	05/02/18 21:00	05/03/18 17:36	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.29	0.326	2	05/02/18 21:00	05/03/18 17:36	EPA 3050B	1,6010C	AB
Arsenic, Total	1.47		mg/kg	0.859	0.179	2	05/02/18 21:00	05/03/18 17:36	EPA 3050B	1,6010C	AB
Barium, Total	131		mg/kg	0.859	0.149	2	05/02/18 21:00	05/03/18 17:36	EPA 3050B	1,6010C	AB
Beryllium, Total	0.223	J	mg/kg	0.429	0.028	2	05/02/18 21:00	05/03/18 17:36	EPA 3050B	1,6010C	AB
Cadmium, Total	0.292	J	mg/kg	0.859	0.084	2	05/02/18 21:00	05/03/18 17:36	EPA 3050B	1,6010C	AB
Calcium, Total	2860		mg/kg	8.59	3.01	2	05/02/18 21:00	05/03/18 17:36	EPA 3050B	1,6010C	AB
Chromium, Total	20.3		mg/kg	0.859	0.082	2	05/02/18 21:00	05/03/18 17:36	EPA 3050B	1,6010C	AB
Cobalt, Total	11.1		mg/kg	1.72	0.142	2	05/02/18 21:00	05/03/18 17:36	EPA 3050B	1,6010C	AB
Copper, Total	18.0		mg/kg	0.859	0.222	2	05/02/18 21:00	05/03/18 17:36	EPA 3050B	1,6010C	AB
Iron, Total	19100		mg/kg	4.29	0.776	2	05/02/18 21:00	05/03/18 17:36	EPA 3050B	1,6010C	AB
Lead, Total	11.1		mg/kg	4.29	0.230	2	05/02/18 21:00	05/03/18 17:36	EPA 3050B	1,6010C	AB
Magnesium, Total	7070		mg/kg	8.59	1.32	2	05/02/18 21:00	05/03/18 17:36	EPA 3050B	1,6010C	AB
Manganese, Total	246		mg/kg	0.859	0.136	2	05/02/18 21:00	05/03/18 17:36	EPA 3050B	1,6010C	AB
Mercury, Total	0.048	J	mg/kg	0.069	0.015	1	05/01/18 07:00	05/01/18 22:23	EPA 7471B	1,7471B	EA
Nickel, Total	14.6		mg/kg	2.15	0.208	2	05/02/18 21:00	05/03/18 17:36	EPA 3050B	1,6010C	AB
Potassium, Total	6140		mg/kg	215	12.4	2	05/02/18 21:00	05/03/18 17:36	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.72	0.222	2	05/02/18 21:00	05/03/18 17:36	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.859	0.243	2	05/02/18 21:00	05/03/18 17:36	EPA 3050B	1,6010C	AB
Sodium, Total	173		mg/kg	172	2.70	2	05/02/18 21:00	05/03/18 17:36	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.72	0.270	2	05/02/18 21:00	05/03/18 17:36	EPA 3050B	1,6010C	AB
Vanadium, Total	36.5		mg/kg	0.859	0.174	2	05/02/18 21:00	05/03/18 17:36	EPA 3050B	1,6010C	AB
Zinc, Total	49.7		mg/kg	4.29	0.252	2	05/02/18 21:00	05/03/18 17:36	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	20		mg/kg	0.87	0.87	1		05/03/18 17:36	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03,06,09,12,15,18,21,24,27 Batch: WG1111261-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	05/01/18 07:00	05/01/18 21:40	1,7471B	EA

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03,06,09,12,15,18,21,24,27 Batch: WG1111986-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	05/02/18 21:00	05/03/18 15:23	1,6010C	AB
Antimony, Total	ND		mg/kg	2.00	0.152	1	05/02/18 21:00	05/03/18 15:23	1,6010C	AB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	05/02/18 21:00	05/03/18 15:23	1,6010C	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	05/02/18 21:00	05/03/18 15:23	1,6010C	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	05/02/18 21:00	05/03/18 15:23	1,6010C	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	05/02/18 21:00	05/03/18 15:23	1,6010C	AB
Calcium, Total	ND		mg/kg	4.00	1.40	1	05/02/18 21:00	05/03/18 15:23	1,6010C	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	05/02/18 21:00	05/03/18 15:23	1,6010C	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	05/02/18 21:00	05/03/18 15:23	1,6010C	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	05/02/18 21:00	05/03/18 15:23	1,6010C	AB
Iron, Total	2.70		mg/kg	2.00	0.361	1	05/02/18 21:00	05/03/18 15:23	1,6010C	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	05/02/18 21:00	05/03/18 15:23	1,6010C	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	05/02/18 21:00	05/03/18 15:23	1,6010C	AB
Manganese, Total	ND		mg/kg	0.400	0.064	1	05/02/18 21:00	05/03/18 15:23	1,6010C	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	05/02/18 21:00	05/03/18 15:23	1,6010C	AB
Potassium, Total	ND		mg/kg	100	5.76	1	05/02/18 21:00	05/03/18 15:23	1,6010C	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	05/02/18 21:00	05/03/18 15:23	1,6010C	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	05/02/18 21:00	05/03/18 15:23	1,6010C	AB
Sodium, Total	ND		mg/kg	80.0	1.26	1	05/02/18 21:00	05/03/18 15:23	1,6010C	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	05/02/18 21:00	05/03/18 15:23	1,6010C	AB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	05/02/18 21:00	05/03/18 15:23	1,6010C	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	05/02/18 21:00	05/03/18 15:23	1,6010C	AB

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815263

Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18,21,24,27 Batch: WG1111261-2 SRM Lot Number: D098-540								
Mercury, Total	102		-		50-149	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815263

Report Date: 05/07/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18,21,24,27 Batch: WG1111986-2 SRM Lot Number: D098-540					
Aluminum, Total	84	-	47-153	-	
Antimony, Total	159	-	6-194	-	
Arsenic, Total	101	-	83-117	-	
Barium, Total	94	-	82-118	-	
Beryllium, Total	100	-	83-117	-	
Cadmium, Total	94	-	82-117	-	
Calcium, Total	94	-	81-118	-	
Chromium, Total	100	-	83-119	-	
Cobalt, Total	96	-	84-116	-	
Copper, Total	94	-	84-116	-	
Iron, Total	110	-	60-140	-	
Lead, Total	95	-	82-117	-	
Magnesium, Total	91	-	76-124	-	
Manganese, Total	92	-	82-118	-	
Nickel, Total	96	-	82-117	-	
Potassium, Total	92	-	69-131	-	
Selenium, Total	100	-	78-121	-	
Silver, Total	106	-	80-120	-	
Sodium, Total	101	-	74-126	-	
Thallium, Total	95	-	80-119	-	
Vanadium, Total	101	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815263

Report Date: 05/07/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18,21,24,27 Batch: WG1111986-2 SRM Lot Number: D098-540					
Zinc, Total	98	-	81-119	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18,21,24,27 QC Batch ID: WG1111261-3 QC Sample: L1815254-01 Client ID: MS Sample												
Mercury, Total	ND	0.133	0.155	116		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18,21,24,27 QC Batch ID: WG1111986-3 QC Sample: L1814999-01 Client ID: MS Sample										
Aluminum, Total	7440	231	8230	**342**	Q	-	-	75-125	-	20
Antimony, Total	1.71J	57.8	50.5	87		-	-	75-125	-	20
Arsenic, Total	21.2	13.9	33.2	86		-	-	75-125	-	20
Barium, Total	31.9	231	241	90		-	-	75-125	-	20
Beryllium, Total	0.324	5.78	5.80	95		-	-	75-125	-	20
Cadmium, Total	0.800	5.89	6.01	88		-	-	75-125	-	20
Calcium, Total	2260	1160	3870	**139**	Q	-	-	75-125	-	20
Chromium, Total	42.1	23.1	75.2	**143**	Q	-	-	75-125	-	20
Cobalt, Total	6.81	57.8	59.2	91		-	-	75-125	-	20
Copper, Total	40.5	28.9	70.6	104		-	-	75-125	-	20
Iron, Total	14100	116	15300	**1040**	Q	-	-	75-125	-	20
Lead, Total	21.9	58.9	70.5	82		-	-	75-125	-	20
Magnesium, Total	3120	1160	4850	**150**	Q	-	-	75-125	-	20
Manganese, Total	207.	57.8	556	**604**	Q	-	-	75-125	-	20
Nickel, Total	16.6	57.8	66.2	86		-	-	75-125	-	20
Potassium, Total	923.	1160	1960	90		-	-	75-125	-	20
Selenium, Total	0.492J	13.9	13.2	95		-	-	75-125	-	20
Silver, Total	0.162J	34.6	35.2	102		-	-	75-125	-	20
Sodium, Total	873.	1160	2040	101		-	-	75-125	-	20
Thallium, Total	ND	13.9	10.8	78		-	-	75-125	-	20
Vanadium, Total	25.3	57.8	77.6	90		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18,21,24,27 QC Batch ID: WG1111986-3 QC Sample: L1814999-01 Client ID: MS Sample									
Zinc, Total	127.	57.8	173	80	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18,21,24,27 QC Batch ID: WG1111261-4 QC Sample: L1815254-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18,21,24,27 QC Batch ID: WG1111986-4 QC Sample: L1814999-01 Client ID: DUP Sample						
Lead, Total	21.9	17.0	mg/kg	**25**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-01
Client ID: TP-2_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 04/30/18 14:00
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.4		%	0.100	NA	1	-	05/01/18 12:17	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-02
Client ID: TP-2_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 04/30/18 14:10
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	80.3		%	0.100	NA	1	-	05/01/18 12:17	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-03
Client ID: TP-2_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 14:20
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.4		%	0.100	NA	1	-	05/01/18 12:17	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	05/01/18 16:20	05/02/18 11:35	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.948	0.190	1	05/02/18 00:05	05/03/18 04:25	1,7196A	JD

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-04
Client ID: TP-7A_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 04/30/18 13:05
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.0		%	0.100	NA	1	-	05/01/18 12:17	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-05
Client ID: TP-7A_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 04/30/18 13:15
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.4		%	0.100	NA	1	-	05/01/18 12:17	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-06
Client ID: TP-7A_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 13:30
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.1		%	0.100	NA	1	-	05/01/18 12:17	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/01/18 16:20	05/02/18 11:38	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.898	0.180	1	05/02/18 00:05	05/03/18 04:25	1,7196A	JD

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-07
Client ID: TP-7B_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 04/30/18 13:20
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.8		%	0.100	NA	1	-	05/01/18 12:17	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-08
Client ID: TP-7B_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 04/30/18 13:25
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.8		%	0.100	NA	1	-	05/01/18 12:17	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-09
Client ID: TP-7B_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 13:35
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.2		%	0.100	NA	1	-	05/01/18 12:17	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/01/18 16:20	05/02/18 11:39	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.897	0.179	1	05/02/18 00:05	05/03/18 04:25	1,7196A	JD

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-10
Client ID: TP-12_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 04/30/18 10:10
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.2		%	0.100	NA	1	-	05/01/18 12:17	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-11
Client ID: TP-12_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 04/30/18 10:30
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.9		%	0.100	NA	1	-	05/01/18 12:17	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-12
Client ID: TP-12_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 10:40
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.7		%	0.100	NA	1	-	05/01/18 12:17	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/01/18 16:20	05/02/18 11:42	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.923	0.184	1	05/02/18 00:05	05/03/18 04:25	1,7196A	JD

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-13
Client ID: TP-14A_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 04/30/18 11:40
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.7		%	0.100	NA	1	-	05/01/18 12:17	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-14
Client ID: TP-14A_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 04/30/18 11:50
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.4		%	0.100	NA	1	-	05/01/18 12:17	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-15
Client ID: TP-14A_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 12:05
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.9		%	0.100	NA	1	-	05/01/18 12:17	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/01/18 16:20	05/02/18 11:43	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.890	0.178	1	05/02/18 00:05	05/03/18 04:25	1,7196A	JD

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-16
Client ID: TP-14B_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 04/30/18 12:00
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.7		%	0.100	NA	1	-	05/01/18 12:17	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-17
Client ID: TP-14B_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 04/30/18 12:15
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.6		%	0.100	NA	1	-	05/01/18 12:17	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-18
Client ID: TP-14B_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 12:20
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.9		%	0.100	NA	1	-	05/01/18 12:17	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/01/18 16:20	05/02/18 11:44	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.900	0.180	1	05/02/18 00:05	05/03/18 04:25	1,7196A	JD

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-19
Client ID: TP-20_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 04/30/18 08:35
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.5		%	0.100	NA	1	-	05/01/18 12:17	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-20
Client ID: TP-20_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 04/30/18 08:45
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.3		%	0.100	NA	1	-	05/01/18 12:17	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-21
Client ID: TP-20_COMP
Sample Location: YONKERS, NY

Date Collected: 04/30/18 08:55
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.8		%	0.100	NA	1	-	05/01/18 12:49	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/01/18 16:20	05/02/18 11:46	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.871	0.174	1	05/02/18 00:05	05/03/18 04:25	1,7196A	JD

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-22
Client ID: TP-22_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 04/30/18 07:40
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.8		%	0.100	NA	1	-	05/01/18 12:49	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-23
Client ID: TP-22_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 04/30/18 08:00
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.4		%	0.100	NA	1	-	05/01/18 12:49	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-24
Client ID: TP-22_COMP
Sample Location: YONKERS, NY
Date Collected: 04/30/18 08:05
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.0		%	0.100	NA	1	-	05/01/18 12:49	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.21	1	05/01/18 16:20	05/02/18 11:47	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.870	0.174	1	05/02/18 00:05	05/03/18 04:25	1,7196A	JD

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-25
Client ID: TP-28_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 04/30/18 09:25
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.0		%	0.100	NA	1	-	05/01/18 12:49	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-26
Client ID: TP-28_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 04/30/18 09:40
Date Received: 04/30/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.5		%	0.100	NA	1	-	05/01/18 12:49	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

SAMPLE RESULTS

Lab ID: L1815263-27
Client ID: TP-28_COMP
Sample Location: YONKERS, NY
Sample Depth:
Matrix: Soil

Date Collected: 04/30/18 09:45
Date Received: 04/30/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.6		%	0.100	NA	1	-	05/01/18 12:49	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/01/18 16:20	05/02/18 11:48	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.873	0.175	1	05/02/18 00:05	05/03/18 04:25	1,7196A	JD

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815263
Report Date: 05/07/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 03,06,09,12,15,18,21,24,27 Batch: WG1111398-1										
Cyanide, Total	ND		mg/kg	0.85	0.18	1	05/01/18 16:20	05/02/18 11:07	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 03,06,09,12,15,18,21,24,27 Batch: WG1111615-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	05/02/18 00:05	05/03/18 04:25	1,7196A	JD

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815263

Report Date: 05/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03,06,09,12,15,18,21,24,27 Batch: WG1111398-2 WG1111398-3								
Cyanide, Total	**72**	Q	**47**	Q	80-120	**41**	Q	35
General Chemistry - Westborough Lab Associated sample(s): 03,06,09,12,15,18,21,24,27 Batch: WG1111615-2								
Chromium, Hexavalent	88		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03,06,09,12,15,18,21,24,27 QC Batch ID: WG1111398-4 WG1111398-5 QC Sample: L1815263-03 Client ID: TP-2_COMP												
Cyanide, Total	ND	11	11	98		11	95		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 03,06,09,12,15,18,21,24,27 QC Batch ID: WG1111615-4 QC Sample: L1815263-27 Client ID: TP-28_COMP												
Chromium, Hexavalent	ND	1050	1220	116		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG1111449-1 QC Sample: L1815263-01 Client ID: TP-2_GRAB-1						
Solids, Total	86.4	86.4	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 21-27 QC Batch ID: WG1111458-1 QC Sample: L1815287-01 Client ID: DUP Sample						
Solids, Total	83.4	80.7	%	3		20
General Chemistry - Westborough Lab Associated sample(s): 03,06,09,12,15,18,21,24,27 QC Batch ID: WG1111615-6 QC Sample: L1815263-27 Client ID: TP-28_COMP						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815263-01A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815263-01B	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-01C	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-01D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-02A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815263-02B	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-02C	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-02D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-03A	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-03B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815263-03C	Glass 120ml/4oz unpreserved	A	NA		4.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815263-03D	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815263-04A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815263-04B	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-04C	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-04D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-05A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815263-05B	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-05C	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815263-05D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-06A	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-06B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815263-06C	Glass 120ml/4oz unpreserved	A	NA		4.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815263-06D	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815263-07A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815263-07B	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-07C	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-07D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-08A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815263-08B	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-08C	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-08D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-09A	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-09B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815263-09C	Glass 120ml/4oz unpreserved	A	NA		4.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815263-09D	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815263-10A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815263-10B	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-10C	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815263-10D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-11A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815263-11B	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-11C	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-11D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-12A	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-12B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815263-12C	Glass 120ml/4oz unpreserved	A	NA		4.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815263-12D	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815263-13A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815263-13B	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-13C	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-13D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-14A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815263-14B	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-14C	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-14D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-15A	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-15B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815263-15C	Glass 120ml/4oz unpreserved	A	NA		4.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815263-15D	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815263-16A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815263-16B	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-16C	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-16D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-17A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815263-17B	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-17C	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-17D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-18A	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-18B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815263-18C	Glass 120ml/4oz unpreserved	A	NA		4.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815263-18D	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815263-19A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815263-19B	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-19C	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-19D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-20A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815263-20B	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-20C	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-20D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-21A	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

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Project Number: 056970006

Lab Number: L1815263
Report Date: 05/07/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815263-21B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815263-21C	Glass 120ml/4oz unpreserved	A	NA		4.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815263-21D	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815263-22A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815263-22B	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-22C	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-22D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-23A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815263-23B	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-23C	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-23D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-24A	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-24B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815263-24C	Glass 120ml/4oz unpreserved	A	NA		4.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815263-24D	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815263-25A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815263-25B	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-25C	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-25D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-26A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

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Lab Number: L1815263
Report Date: 05/07/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815263-26B	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-26C	Vial water preserved	A	NA		4.5	Y	Absent	01-MAY-18 05:19	NYTCL-8260HLW(14)
L1815263-26D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-27A	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815263-27B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815263-27C	Glass 120ml/4oz unpreserved	A	NA		4.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815263-27D	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815263-28A	Vial HCl preserved	A	NA		4.5	Y	Absent		NYTCL-8260(14)
L1815263-28B	Vial HCl preserved	A	NA		4.5	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

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GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

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Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

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REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 3

Date Rec'd in Lab: 5/1/18

ALPHA Job # L1815263

Client Information
Client: PSS Engineering, PLLC
Address: 1 Larkin Plaza
Yonkers NY 10701
Phone: 914 501 0600
Fax:
Email: SCuppari220@PSandE.com

Project Information
Project Name: Former BICC
Project Location: Yonkers, NY
Project #
(Use Project name as Project #) ☐
Project Manager: Scott Cuppari 220 (203-351-4015)
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☒ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☒ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☒ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TS - SM 2540	NYTCL - 8260	Methyl 8030/Hg	Herbicides EPA 8151	Pest./Herb/PCB	PCB, Trichlor	NYC TCL-8270	Sample Specific Comments
15263- 01	TP-2_Grab-1	4/30/18	1400	Soil	ES	X	X						
-02	TP-2_Grab-2		1410			X	X						
-03	TP-2_Comp		1420			X		X	X	X	X	X	
-04	TP-7A_Grab-1		1305			X	X						
-05	TP-7A_Grab-2		1315			X	X						No 8030/Hg
-06	TP-7A_Comp		1330			X		X	X	X	X	X	
-07	TP-7B_Grab-1		1320			X	X						
-08	TP-7B_Grab-2		1325			X	X						
-09	TP-7B_Comp		1335			X		X	X	X	X	X	
-10	TP-17_Grab-1		1010			X	X						

Container Type	P	V	A	A	A	A	A
Preservative	A	1-F 2-H_2SO_4	A	A	A	A	A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	4/30/18 1515		4/30/18 15:15
	4/30/18 2050		5/1/18 0440

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ALPHA

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 3

Date Rec'd in Lab: 5/1/18

ALPHA Job # L1815263

Client Information

Client: PSES Engineering, Inc
Address: 1 Larkin Plaza
Yonkers, NY 10701
Phone: 914 965 6006
Fax:
Email: Scapizzo@PSANS.com

Project Information

Project Name: Former BICC
Project Location: Yonkers, NY
Project #
(Use Project name as Project #) ☐
Project Manager: Scott Capizzo (203 254-4015)
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information

☒ Same as Client Info
PO #

Regulatory Requirement

☐ NY TOGS ☒ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☒ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

TS - SM 2540
NYTCL - 8260
Metals 6020 / Hg
Her Gr EPA 7196
Pesticides, Herbicides
PCB, TCN, TPH GRO
NYCTCL - 8270

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Total # of Bottles

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TS	NYTCL-8260	Metals 6020 / Hg	Her Gr EPA 7196	Pesticides, Herbicides	PCB, TCN, TPH GRO	NYCTCL-8270	Sample Specific Comments	Total # of Bottles
L1815263-11	TP-12_Grab-1	4/30/18	5:01	1030	ES	X	X							4
-12	TP-12_Comp			1040		X		X	X	X	X	X		
-13	TP-14A_Grab-1			1140		X	X							
-14	TP-14A_Grab-2			1150		X	X							
-15	TP-14A_Comp			1205		X		X	X	X	X	X		
-16	TP-14B_Grab-1			1200		X	X							
-17	TP-14B_Grab-2			1315		X	X							
-18	TP-14B_Comp			1220		X		X	X	X	X	X		
-19	TP-20_Grab-1			0835		X	X							
-20	TP-20_Grab-2			0845		X	X							

Container Type	P	A	A	A	A	A	A	
Preservative	A	1-F 2-H2O	A	A	A	A	A	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	4/30/18 1515		4/30/18 15:15
	4/30/18 20:10		5/1/18 0140

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 3 of 3

Date Rec'd in Lab: 5/1/18

ALPHA Job # L1815263

Client Information

Client: PS+S Engineering
Address: 1 Larkin Plaza
Yonkers NY 10701
Phone: 914 509 8600
Fax:
Email: SCapozzo@PSands.com

Project Information

Project Name: Former BICC
Project Location: Yonkers, NY
Project #
(Use Project name as Project #) ☐
Project Manager: Scott Capozzo (203 252-4015)
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☒ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☒ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☒ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

Sample Filtration

☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TS - SM 2540	NYTCL-8260	Metals 6010/7470	Iter Cr EPA 7196	Pest/Herb/PCB	TCN, Ff, Cr	NYL TCL-8270	Sample Specific Comments
L15263-21	TP-20_Comp	4/30/18	0855	Soil	FS	X		X	X	X	X	X	
-22	TP-22_Grab-1		0740			X	X						
-23	TP-22_Grab-2		0800			X	X						
-24	TP-~~29~~22_Comp		0805			X		X	X	X	X	X	
-25	TP-28_Grab-1		0925			X	X						
-26	TP-28_Grab-2		0940			X	X						
-27	TP-28_Comp		0945			X		X	X	X	X	X	
-28	Trip Blank		-	Water	B							X	Vial - HCl

Container Type	P	A	A	A	A	A	A	
Preservative	A	1-F 2-H_2	A	A	A	A	A	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	4/30/18 1515		4/30/18 15:15
	5/1/18 0010		5/1/18 0140

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1815546
Client:	PS&S Engineering, Inc. 1 Larkin Plaza Second Floor Yonkers, NY 10701
ATTN:	Scott Caporizzo
Phone:	(914) 266-3722
Project Name:	FORMER BICC
Project Number:	056970006
Report Date:	05/08/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1815546-01	TP-1A_GRAB-1	SOIL	YONKERS, NY	05/01/18 07:25	05/01/18
L1815546-02	TP-1A_GRAB-2	SOIL	YONKERS, NY	05/01/18 07:35	05/01/18
L1815546-03	TP-1A_GRAB-3	SOIL	YONKERS, NY	05/01/18 07:40	05/01/18
L1815546-04	TP-1A_GRAB-4	SOIL	YONKERS, NY	05/01/18 07:45	05/01/18
L1815546-05	TP-1A_COMP	SOIL	YONKERS, NY	05/01/18 07:50	05/01/18
L1815546-06	TP-1B_GRAB-1	SOIL	YONKERS, NY	05/01/18 08:05	05/01/18
L1815546-07	TP-1B_GRAB-2	SOIL	YONKERS, NY	05/01/18 08:10	05/01/18
L1815546-08	TP-1B_GRAB-3	SOIL	YONKERS, NY	05/01/18 08:15	05/01/18
L1815546-09	TP-1B_COMP	SOIL	YONKERS, NY	05/01/18 08:25	05/01/18
L1815546-10	TP-3_GRAB-1	SOIL	YONKERS, NY	05/01/18 08:40	05/01/18
L1815546-11	TP-3_GRAB-2	SOIL	YONKERS, NY	05/01/18 08:50	05/01/18
L1815546-12	TP-3_COMP	SOIL	YONKERS, NY	05/01/18 09:00	05/01/18
L1815546-13	TP-4_GRAB-1	SOIL	YONKERS, NY	05/01/18 09:30	05/01/18
L1815546-14	TP-4_GRAB-2	SOIL	YONKERS, NY	05/01/18 09:40	05/01/18
L1815546-15	TP-4_COMP	SOIL	YONKERS, NY	05/01/18 09:45	05/01/18
L1815546-16	TP-5A_GRAB-1	SOIL	YONKERS, NY	05/01/18 10:20	05/01/18
L1815546-17	TP-5A_GRAB-2	SOIL	YONKERS, NY	05/01/18 10:30	05/01/18
L1815546-18	TP-5A_COMP	SOIL	YONKERS, NY	05/01/18 10:45	05/01/18
L1815546-19	TP-5B_GRAB-1	SOIL	YONKERS, NY	05/01/18 10:25	05/01/18
L1815546-20	TP-5B_GRAB-2	SOIL	YONKERS, NY	05/01/18 10:35	05/01/18
L1815546-21	TP-5B_COMP	SOIL	YONKERS, NY	05/01/18 10:50	05/01/18
L1815546-22	TP-6_GRAB-1	SOIL	YONKERS, NY	05/01/18 11:05	05/01/18
L1815546-23	TP-6_GRAB-2	SOIL	YONKERS, NY	05/01/18 11:15	05/01/18
L1815546-24	TP-6_COMP	SOIL	YONKERS, NY	05/01/18 11:25	05/01/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1815546-25	TP-8_GRAB-1	SOIL	YONKERS, NY	05/01/18 11:40	05/01/18
L1815546-26	TP-8_GRAB-2	SOIL	YONKERS, NY	05/01/18 11:50	05/01/18
L1815546-27	TP-8_COMP	SOIL	YONKERS, NY	05/01/18 11:55	05/01/18
L1815546-28	TP-9A_GRAB-1	SOIL	YONKERS, NY	05/01/18 12:10	05/01/18
L1815546-29	TP-9A_GRAB-2	SOIL	YONKERS, NY	05/01/18 12:50	05/01/18
L1815546-30	TP-9A_COMP	SOIL	YONKERS, NY	05/01/18 13:10	05/01/18
L1815546-31	TP-9B_GRAB-1	SOIL	YONKERS, NY	05/01/18 12:55	05/01/18
L1815546-32	TP-9B_GRAB-2	SOIL	YONKERS, NY	05/01/18 13:00	05/01/18
L1815546-33	TP-9B_COMP	SOIL	YONKERS, NY	05/01/18 13:15	05/01/18
L1815546-34	TP-10A_GRAB-1	SOIL	YONKERS, NY	05/01/18 13:30	05/01/18
L1815546-35	TP-10A_GRAB-2	SOIL	YONKERS, NY	05/01/18 13:35	05/01/18
L1815546-36	TP-10A_COMP	SOIL	YONKERS, NY	05/01/18 14:00	05/01/18
L1815546-37	TP-10B_GRAB-1	SOIL	YONKERS, NY	05/01/18 13:40	05/01/18
L1815546-38	TP-10B_GRAB-2	SOIL	YONKERS, NY	05/01/18 13:50	05/01/18
L1815546-39	TP-10B_COMP	SOIL	YONKERS, NY	05/01/18 14:05	05/01/18
L1815546-40	TB-2	WATER	YONKERS, NY	05/01/18 00:00	05/01/18

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

L1815546-05, -09, -12, -15, -18, -21, -24, -27, -30, -33, -36, and -39: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

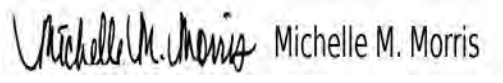
Cyanide, Total

The WG1111686-2/-3 LCS/LCSD recoveries (42%/57%), associated with L1815546-05, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1111754-3 LCSD recovery (79%), associated with L1815546-09 and -12, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1111815-2/-3 LCS/LCSD recoveries (79%/78%), associated with L1815546-15, -18, -21, -24, -27, -30, -33, -36, and -39, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Michelle M. Morris

Title: Technical Director/Representative Date: 05/08/18

ORGANICS

VOLATILES

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-01
Client ID: TP-1A_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/01/18 07:25
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/06/18 10:42
Analyst: JC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.2	1.5	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.25	1
Chloroform	ND		ug/kg	1.4	0.34	1
Carbon tetrachloride	ND		ug/kg	0.92	0.32	1
1,2-Dichloropropane	ND		ug/kg	3.2	0.21	1
Dibromochloromethane	ND		ug/kg	0.92	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.29	1
Tetrachloroethene	ND		ug/kg	0.92	0.28	1
Chlorobenzene	ND		ug/kg	0.92	0.32	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.38	1
1,2-Dichloroethane	ND		ug/kg	0.92	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.92	0.32	1
Bromodichloromethane	ND		ug/kg	0.92	0.28	1
trans-1,3-Dichloropropene	ND		ug/kg	0.92	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	0.92	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.92	0.19	1
1,1-Dichloropropene	ND		ug/kg	4.6	0.30	1
Bromoform	ND		ug/kg	3.7	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.92	0.27	1
Benzene	ND		ug/kg	0.92	0.18	1
Toluene	ND		ug/kg	1.4	0.18	1
Ethylbenzene	ND		ug/kg	0.92	0.16	1
Chloromethane	ND		ug/kg	4.6	0.40	1
Bromomethane	ND		ug/kg	1.8	0.31	1
Vinyl chloride	ND		ug/kg	1.8	0.29	1
Chloroethane	ND		ug/kg	1.8	0.29	1
1,1-Dichloroethene	ND		ug/kg	0.92	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.22	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-01
Client ID: TP-1A_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/01/18 07:25
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	4.1		ug/kg	0.92	0.28	1
1,2-Dichlorobenzene	ND		ug/kg	4.6	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	4.6	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	4.6	0.17	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.14	1
p/m-Xylene	ND		ug/kg	1.8	0.32	1
o-Xylene	ND		ug/kg	1.8	0.31	1
Xylenes, Total	ND		ug/kg	1.8	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	0.92	0.31	1
1,2-Dichloroethene, Total	ND		ug/kg	0.92	0.22	1
Dibromomethane	ND		ug/kg	9.2	0.22	1
Styrene	ND		ug/kg	1.8	0.37	1
Dichlorodifluoromethane	ND		ug/kg	9.2	0.46	1
Acetone	3.2	J	ug/kg	9.2	2.1	1
Carbon disulfide	ND		ug/kg	9.2	1.0	1
2-Butanone	ND		ug/kg	9.2	0.63	1
Vinyl acetate	ND		ug/kg	9.2	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	9.2	0.22	1
1,2,3-Trichloropropane	ND		ug/kg	9.2	0.16	1
2-Hexanone	ND		ug/kg	9.2	0.61	1
Bromochloromethane	ND		ug/kg	4.6	0.33	1
2,2-Dichloropropane	ND		ug/kg	4.6	0.41	1
1,2-Dibromoethane	ND		ug/kg	3.7	0.18	1
1,3-Dichloropropane	ND		ug/kg	4.6	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.92	0.29	1
Bromobenzene	ND		ug/kg	4.6	0.20	1
n-Butylbenzene	ND		ug/kg	0.92	0.21	1
sec-Butylbenzene	ND		ug/kg	0.92	0.20	1
tert-Butylbenzene	ND		ug/kg	4.6	0.23	1
o-Chlorotoluene	ND		ug/kg	4.6	0.20	1
p-Chlorotoluene	ND		ug/kg	4.6	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.6	0.36	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.32	1
Isopropylbenzene	ND		ug/kg	0.92	0.18	1
p-Isopropyltoluene	ND		ug/kg	0.92	0.18	1
Naphthalene	ND		ug/kg	4.6	0.13	1
Acrylonitrile	ND		ug/kg	9.2	0.47	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-01
Client ID: TP-1A_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/01/18 07:25
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.92	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.6	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.6	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.6	0.15	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.6	0.17	1
1,4-Dioxane	ND		ug/kg	37	13.	1
p-Diethylbenzene	ND		ug/kg	3.7	3.7	1
p-Ethyltoluene	ND		ug/kg	3.7	0.22	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.7	0.14	1
Ethyl ether	ND		ug/kg	4.6	0.24	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	0.36	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-02
Client ID: TP-1A_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/01/18 07:35
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/06/18 11:10
Analyst: JC
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.2	1.5	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.25	1
Chloroform	ND		ug/kg	1.4	0.34	1
Carbon tetrachloride	ND		ug/kg	0.92	0.32	1
1,2-Dichloropropane	ND		ug/kg	3.2	0.21	1
Dibromochloromethane	ND		ug/kg	0.92	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.29	1
Tetrachloroethene	ND		ug/kg	0.92	0.28	1
Chlorobenzene	ND		ug/kg	0.92	0.32	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.38	1
1,2-Dichloroethane	ND		ug/kg	0.92	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.92	0.32	1
Bromodichloromethane	ND		ug/kg	0.92	0.28	1
trans-1,3-Dichloropropene	ND		ug/kg	0.92	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	0.92	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.92	0.19	1
1,1-Dichloropropene	ND		ug/kg	4.6	0.30	1
Bromoform	ND		ug/kg	3.7	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.92	0.27	1
Benzene	ND		ug/kg	0.92	0.18	1
Toluene	ND		ug/kg	1.4	0.18	1
Ethylbenzene	ND		ug/kg	0.92	0.16	1
Chloromethane	ND		ug/kg	4.6	0.40	1
Bromomethane	ND		ug/kg	1.8	0.31	1
Vinyl chloride	ND		ug/kg	1.8	0.29	1
Chloroethane	ND		ug/kg	1.8	0.29	1
1,1-Dichloroethene	ND		ug/kg	0.92	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.22	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-02
Client ID: TP-1A_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/01/18 07:35
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	4.2		ug/kg	0.92	0.28	1
1,2-Dichlorobenzene	ND		ug/kg	4.6	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	4.6	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	4.6	0.17	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.14	1
p/m-Xylene	ND		ug/kg	1.8	0.32	1
o-Xylene	1.3	J	ug/kg	1.8	0.31	1
Xylenes, Total	1.3	J	ug/kg	1.8	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	0.92	0.31	1
1,2-Dichloroethene, Total	ND		ug/kg	0.92	0.22	1
Dibromomethane	ND		ug/kg	9.2	0.22	1
Styrene	ND		ug/kg	1.8	0.37	1
Dichlorodifluoromethane	ND		ug/kg	9.2	0.46	1
Acetone	4.9	J	ug/kg	9.2	2.1	1
Carbon disulfide	ND		ug/kg	9.2	1.0	1
2-Butanone	ND		ug/kg	9.2	0.63	1
Vinyl acetate	ND		ug/kg	9.2	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	9.2	0.22	1
1,2,3-Trichloropropane	ND		ug/kg	9.2	0.16	1
2-Hexanone	ND		ug/kg	9.2	0.61	1
Bromochloromethane	ND		ug/kg	4.6	0.33	1
2,2-Dichloropropane	ND		ug/kg	4.6	0.41	1
1,2-Dibromoethane	ND		ug/kg	3.7	0.18	1
1,3-Dichloropropane	ND		ug/kg	4.6	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.92	0.29	1
Bromobenzene	ND		ug/kg	4.6	0.20	1
n-Butylbenzene	ND		ug/kg	0.92	0.21	1
sec-Butylbenzene	ND		ug/kg	0.92	0.20	1
tert-Butylbenzene	ND		ug/kg	4.6	0.23	1
o-Chlorotoluene	ND		ug/kg	4.6	0.20	1
p-Chlorotoluene	ND		ug/kg	4.6	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.6	0.36	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.32	1
Isopropylbenzene	ND		ug/kg	0.92	0.18	1
p-Isopropyltoluene	0.45	J	ug/kg	0.92	0.18	1
Naphthalene	0.94	J	ug/kg	4.6	0.13	1
Acrylonitrile	ND		ug/kg	9.2	0.47	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-02
Client ID: TP-1A_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/01/18 07:35
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.92	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.6	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.6	0.20	1
1,3,5-Trimethylbenzene	1.4	J	ug/kg	4.6	0.15	1
1,2,4-Trimethylbenzene	0.49	J	ug/kg	4.6	0.17	1
1,4-Dioxane	ND		ug/kg	37	13.	1
p-Diethylbenzene	6.9		ug/kg	3.7	3.7	1
p-Ethyltoluene	2.2	J	ug/kg	3.7	0.21	1
1,2,4,5-Tetramethylbenzene	3.8		ug/kg	3.7	0.14	1
Ethyl ether	ND		ug/kg	4.6	0.24	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	0.36	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-03
Client ID: TP-1A_GRAB-3
Sample Location: YONKERS, NY

Date Collected: 05/01/18 07:40
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/06/18 11:37
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.6	1.6	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.26	1
Chloroform	ND		ug/kg	1.4	0.36	1
Carbon tetrachloride	ND		ug/kg	0.96	0.33	1
1,2-Dichloropropane	ND		ug/kg	3.4	0.22	1
Dibromochloromethane	ND		ug/kg	0.96	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.30	1
Tetrachloroethene	0.30	J	ug/kg	0.96	0.29	1
Chlorobenzene	ND		ug/kg	0.96	0.33	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.40	1
1,2-Dichloroethane	ND		ug/kg	0.96	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.96	0.34	1
Bromodichloromethane	ND		ug/kg	0.96	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	0.96	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.96	0.20	1
1,1-Dichloropropene	ND		ug/kg	4.8	0.32	1
Bromoform	ND		ug/kg	3.8	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.96	0.29	1
Benzene	ND		ug/kg	0.96	0.18	1
Toluene	ND		ug/kg	1.4	0.19	1
Ethylbenzene	ND		ug/kg	0.96	0.16	1
Chloromethane	ND		ug/kg	4.8	0.42	1
Bromomethane	ND		ug/kg	1.9	0.32	1
Vinyl chloride	ND		ug/kg	1.9	0.30	1
Chloroethane	ND		ug/kg	1.9	0.30	1
1,1-Dichloroethene	ND		ug/kg	0.96	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.23	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-03
Client ID: TP-1A_GRAB-3
Sample Location: YONKERS, NY
Date Collected: 05/01/18 07:40
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	7.9		ug/kg	0.96	0.29	1
1,2-Dichlorobenzene	ND		ug/kg	4.8	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	4.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	4.8	0.18	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.15	1
p/m-Xylene	ND		ug/kg	1.9	0.34	1
o-Xylene	1.1	J	ug/kg	1.9	0.32	1
Xylenes, Total	1.1	J	ug/kg	1.9	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	0.96	0.33	1
1,2-Dichloroethene, Total	ND		ug/kg	0.96	0.23	1
Dibromomethane	ND		ug/kg	9.6	0.23	1
Styrene	ND		ug/kg	1.9	0.38	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.48	1
Acetone	15		ug/kg	9.6	2.2	1
Carbon disulfide	ND		ug/kg	9.6	1.0	1
2-Butanone	ND		ug/kg	9.6	0.66	1
Vinyl acetate	ND		ug/kg	9.6	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	9.6	0.23	1
1,2,3-Trichloropropane	ND		ug/kg	9.6	0.17	1
2-Hexanone	ND		ug/kg	9.6	0.64	1
Bromochloromethane	ND		ug/kg	4.8	0.34	1
2,2-Dichloropropane	ND		ug/kg	4.8	0.43	1
1,2-Dibromoethane	ND		ug/kg	3.8	0.19	1
1,3-Dichloropropane	ND		ug/kg	4.8	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.96	0.31	1
Bromobenzene	ND		ug/kg	4.8	0.21	1
n-Butylbenzene	ND		ug/kg	0.96	0.22	1
sec-Butylbenzene	ND		ug/kg	0.96	0.21	1
tert-Butylbenzene	ND		ug/kg	4.8	0.24	1
o-Chlorotoluene	ND		ug/kg	4.8	0.21	1
p-Chlorotoluene	ND		ug/kg	4.8	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.8	0.38	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.33	1
Isopropylbenzene	ND		ug/kg	0.96	0.19	1
p-Isopropyltoluene	0.51	J	ug/kg	0.96	0.19	1
Naphthalene	1.3	J	ug/kg	4.8	0.13	1
Acrylonitrile	ND		ug/kg	9.6	0.49	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-03
Client ID: TP-1A_GRAB-3
Sample Location: YONKERS, NY
Date Collected: 05/01/18 07:40
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.96	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.8	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.8	0.21	1
1,3,5-Trimethylbenzene	2.5	J	ug/kg	4.8	0.15	1
1,2,4-Trimethylbenzene	0.53	J	ug/kg	4.8	0.18	1
1,4-Dioxane	ND		ug/kg	38	14.	1
p-Diethylbenzene	12		ug/kg	3.8	3.8	1
p-Ethyltoluene	2.6	J	ug/kg	3.8	0.22	1
1,2,4,5-Tetramethylbenzene	5.6		ug/kg	3.8	0.15	1
Ethyl ether	ND		ug/kg	4.8	0.25	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	0.38	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-04
Client ID: TP-1A_GRAB-4
Sample Location: YONKERS, NY

Date Collected: 05/01/18 07:45
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/06/18 12:05
Analyst: JC
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.29	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.37	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	0.48	J	ug/kg	1.1	0.33	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.45	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.38	1
Bromodichloromethane	ND		ug/kg	1.1	0.33	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.25	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.22	1
1,1-Dichloropropene	ND		ug/kg	5.4	0.36	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.32	1
Benzene	ND		ug/kg	1.1	0.21	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.18	1
Chloromethane	ND		ug/kg	5.4	0.47	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.34	1
Chloroethane	ND		ug/kg	2.2	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.40	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.26	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-04
Client ID: TP-1A_GRAB-4
Sample Location: YONKERS, NY
Date Collected: 05/01/18 07:45
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	1.7		ug/kg	1.1	0.33	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.4	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.16	1
p/m-Xylene	ND		ug/kg	2.2	0.38	1
o-Xylene	ND		ug/kg	2.2	0.37	1
Xylenes, Total	ND		ug/kg	2.2	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.37	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.26	1
Dibromomethane	ND		ug/kg	11	0.26	1
Styrene	ND		ug/kg	2.2	0.43	1
Dichlorodifluoromethane	ND		ug/kg	11	0.54	1
Acetone	24		ug/kg	11	2.5	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.75	1
Vinyl acetate	ND		ug/kg	11	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.19	1
2-Hexanone	ND		ug/kg	11	0.72	1
Bromochloromethane	ND		ug/kg	5.4	0.39	1
2,2-Dichloropropane	ND		ug/kg	5.4	0.49	1
1,2-Dibromoethane	ND		ug/kg	4.3	0.22	1
1,3-Dichloropropane	ND		ug/kg	5.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.4	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.25	1
sec-Butylbenzene	ND		ug/kg	1.1	0.24	1
tert-Butylbenzene	ND		ug/kg	5.4	0.27	1
o-Chlorotoluene	ND		ug/kg	5.4	0.24	1
p-Chlorotoluene	ND		ug/kg	5.4	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	0.43	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.38	1
Isopropylbenzene	ND		ug/kg	1.1	0.21	1
p-Isopropyltoluene	1.1		ug/kg	1.1	0.22	1
Naphthalene	0.52	J	ug/kg	5.4	0.15	1
Acrylonitrile	ND		ug/kg	11	0.56	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-04
Client ID: TP-1A_GRAB-4
Sample Location: YONKERS, NY
Date Collected: 05/01/18 07:45
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	0.23	1
1,3,5-Trimethylbenzene	0.26	J	ug/kg	5.4	0.17	1
1,2,4-Trimethylbenzene	0.36	J	ug/kg	5.4	0.20	1
1,4-Dioxane	ND		ug/kg	43	16.	1
p-Diethylbenzene	ND		ug/kg	4.3	4.3	1
p-Ethyltoluene	0.38	J	ug/kg	4.3	0.25	1
1,2,4,5-Tetramethylbenzene	0.68	J	ug/kg	4.3	0.17	1
Ethyl ether	ND		ug/kg	5.4	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	0.42	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	94		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-06
Client ID: TP-1B_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/01/18 08:05
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/06/18 12:32
Analyst: JC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.9	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.31	1
Chloroform	ND		ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.1	0.39	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.36	1
Tetrachloroethene	1.7		ug/kg	1.1	0.34	1
Chlorobenzene	ND		ug/kg	1.1	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.7	0.48	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.40	1
Bromodichloromethane	ND		ug/kg	1.1	0.35	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.26	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.24	1
1,1-Dichloropropene	ND		ug/kg	5.7	0.37	1
Bromoform	ND		ug/kg	4.6	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Benzene	ND		ug/kg	1.1	0.22	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.19	1
Chloromethane	ND		ug/kg	5.7	0.50	1
Bromomethane	ND		ug/kg	2.3	0.39	1
Vinyl chloride	ND		ug/kg	2.3	0.36	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.42	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.28	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-06
Client ID: TP-1B_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/01/18 08:05
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	0.99	J	ug/kg	1.1	0.34	1
1,2-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.7	0.25	1
1,4-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.17	1
p/m-Xylene	ND		ug/kg	2.3	0.40	1
o-Xylene	ND		ug/kg	2.3	0.39	1
Xylenes, Total	ND		ug/kg	2.3	0.39	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.39	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.28	1
Dibromomethane	ND		ug/kg	11	0.27	1
Styrene	ND		ug/kg	2.3	0.46	1
Dichlorodifluoromethane	ND		ug/kg	11	0.57	1
Acetone	6.6	J	ug/kg	11	2.6	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.79	1
Vinyl acetate	ND		ug/kg	11	0.17	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.20	1
2-Hexanone	ND		ug/kg	11	0.76	1
Bromochloromethane	ND		ug/kg	5.7	0.41	1
2,2-Dichloropropane	ND		ug/kg	5.7	0.51	1
1,2-Dibromoethane	ND		ug/kg	4.6	0.23	1
1,3-Dichloropropane	ND		ug/kg	5.7	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.7	0.25	1
n-Butylbenzene	ND		ug/kg	1.1	0.26	1
sec-Butylbenzene	ND		ug/kg	1.1	0.25	1
tert-Butylbenzene	ND		ug/kg	5.7	0.28	1
o-Chlorotoluene	ND		ug/kg	5.7	0.25	1
p-Chlorotoluene	ND		ug/kg	5.7	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	0.45	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.40	1
Isopropylbenzene	ND		ug/kg	1.1	0.22	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.23	1
Naphthalene	ND		ug/kg	5.7	0.16	1
Acrylonitrile	ND		ug/kg	11	0.59	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-06
Client ID: TP-1B_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/01/18 08:05
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.7	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.7	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.7	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.7	0.21	1
1,4-Dioxane	ND		ug/kg	46	16.	1
p-Diethylbenzene	ND		ug/kg	4.6	4.6	1
p-Ethyltoluene	ND		ug/kg	4.6	0.27	1
1,2,4,5-Tetramethylbenzene	0.28	J	ug/kg	4.6	0.18	1
Ethyl ether	ND		ug/kg	5.7	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	0.45	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	96		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-07
Client ID: TP-1B_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/01/18 08:10
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/06/18 13:00
Analyst: JC
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	2.3	1
1,1-Dichloroethane	ND		ug/kg	2.1	0.38	1
Chloroform	ND		ug/kg	2.1	0.52	1
Carbon tetrachloride	ND		ug/kg	1.4	0.49	1
1,2-Dichloropropane	ND		ug/kg	4.9	0.32	1
Dibromochloromethane	ND		ug/kg	1.4	0.25	1
1,1,2-Trichloroethane	ND		ug/kg	2.1	0.44	1
Tetrachloroethene	ND		ug/kg	1.4	0.43	1
Chlorobenzene	ND		ug/kg	1.4	0.49	1
Trichlorofluoromethane	ND		ug/kg	7.1	0.59	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.49	1
Bromodichloromethane	ND		ug/kg	1.4	0.44	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.33	1
1,3-Dichloropropene, Total	ND		ug/kg	1.4	0.29	1
1,1-Dichloropropene	ND		ug/kg	7.1	0.46	1
Bromoform	ND		ug/kg	5.6	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.42	1
Benzene	ND		ug/kg	1.4	0.27	1
Toluene	ND		ug/kg	2.1	0.28	1
Ethylbenzene	0.34	J	ug/kg	1.4	0.24	1
Chloromethane	ND		ug/kg	7.1	0.62	1
Bromomethane	ND		ug/kg	2.8	0.48	1
Vinyl chloride	ND		ug/kg	2.8	0.44	1
Chloroethane	ND		ug/kg	2.8	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.52	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.34	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-07
Client ID: TP-1B_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/01/18 08:10
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	4.1		ug/kg	1.4	0.43	1
1,2-Dichlorobenzene	ND		ug/kg	7.1	0.26	1
1,3-Dichlorobenzene	ND		ug/kg	7.1	0.31	1
1,4-Dichlorobenzene	ND		ug/kg	7.1	0.26	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.22	1
p/m-Xylene	0.50	J	ug/kg	2.8	0.50	1
o-Xylene	1.0	J	ug/kg	2.8	0.48	1
Xylenes, Total	1.5	J	ug/kg	2.8	0.48	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.48	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.34	1
Dibromomethane	ND		ug/kg	14	0.34	1
Styrene	ND		ug/kg	2.8	0.57	1
Dichlorodifluoromethane	ND		ug/kg	14	0.71	1
Acetone	53		ug/kg	14	3.2	1
Carbon disulfide	ND		ug/kg	14	1.6	1
2-Butanone	3.5	J	ug/kg	14	0.98	1
Vinyl acetate	ND		ug/kg	14	0.22	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.34	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.25	1
2-Hexanone	ND		ug/kg	14	0.94	1
Bromochloromethane	ND		ug/kg	7.1	0.50	1
2,2-Dichloropropane	ND		ug/kg	7.1	0.64	1
1,2-Dibromoethane	ND		ug/kg	5.6	0.28	1
1,3-Dichloropropane	ND		ug/kg	7.1	0.26	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.45	1
Bromobenzene	ND		ug/kg	7.1	0.31	1
n-Butylbenzene	0.40	J	ug/kg	1.4	0.32	1
sec-Butylbenzene	0.33	J	ug/kg	1.4	0.31	1
tert-Butylbenzene	ND		ug/kg	7.1	0.35	1
o-Chlorotoluene	ND		ug/kg	7.1	0.31	1
p-Chlorotoluene	ND		ug/kg	7.1	0.26	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.1	0.56	1
Hexachlorobutadiene	ND		ug/kg	7.1	0.49	1
Isopropylbenzene	ND		ug/kg	1.4	0.27	1
p-Isopropyltoluene	0.96	J	ug/kg	1.4	0.28	1
Naphthalene	2.3	J	ug/kg	7.1	0.20	1
Acrylonitrile	ND		ug/kg	14	0.73	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-07
Client ID: TP-1B_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/01/18 08:10
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.30	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.1	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.1	0.30	1
1,3,5-Trimethylbenzene	2.1	J	ug/kg	7.1	0.23	1
1,2,4-Trimethylbenzene	4.0	J	ug/kg	7.1	0.26	1
1,4-Dioxane	ND		ug/kg	56	20.	1
p-Diethylbenzene	5.6		ug/kg	5.6	5.6	1
p-Ethyltoluene	3.2	J	ug/kg	5.6	0.33	1
1,2,4,5-Tetramethylbenzene	2.2	J	ug/kg	5.6	0.22	1
Ethyl ether	ND		ug/kg	7.1	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.1	0.55	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	94		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-08
Client ID: TP-1B_GRAB-3
Sample Location: YONKERS, NY

Date Collected: 05/01/18 08:15
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/06/18 13:27
Analyst: JC
Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.1	1.5	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.24	1
Chloroform	ND		ug/kg	1.4	0.34	1
Carbon tetrachloride	ND		ug/kg	0.91	0.31	1
1,2-Dichloropropane	ND		ug/kg	3.2	0.21	1
Dibromochloromethane	ND		ug/kg	0.91	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.28	1
Tetrachloroethene	0.68	J	ug/kg	0.91	0.27	1
Chlorobenzene	ND		ug/kg	0.91	0.32	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.38	1
1,2-Dichloroethane	ND		ug/kg	0.91	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.91	0.32	1
Bromodichloromethane	ND		ug/kg	0.91	0.28	1
trans-1,3-Dichloropropene	ND		ug/kg	0.91	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	0.91	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.91	0.19	1
1,1-Dichloropropene	ND		ug/kg	4.5	0.30	1
Bromoform	ND		ug/kg	3.6	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.91	0.27	1
Benzene	ND		ug/kg	0.91	0.17	1
Toluene	ND		ug/kg	1.4	0.18	1
Ethylbenzene	ND		ug/kg	0.91	0.15	1
Chloromethane	ND		ug/kg	4.5	0.40	1
Bromomethane	ND		ug/kg	1.8	0.31	1
Vinyl chloride	ND		ug/kg	1.8	0.28	1
Chloroethane	ND		ug/kg	1.8	0.29	1
1,1-Dichloroethene	ND		ug/kg	0.91	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.22	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-08
Client ID: TP-1B_GRAB-3
Sample Location: YONKERS, NY
Date Collected: 05/01/18 08:15
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	17		ug/kg	0.91	0.27	1
1,2-Dichlorobenzene	ND		ug/kg	4.5	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	4.5	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	4.5	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.14	1
p/m-Xylene	ND		ug/kg	1.8	0.32	1
o-Xylene	ND		ug/kg	1.8	0.31	1
Xylenes, Total	ND		ug/kg	1.8	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	0.91	0.31	1
1,2-Dichloroethene, Total	ND		ug/kg	0.91	0.22	1
Dibromomethane	ND		ug/kg	9.1	0.22	1
Styrene	ND		ug/kg	1.8	0.36	1
Dichlorodifluoromethane	ND		ug/kg	9.1	0.45	1
Acetone	20		ug/kg	9.1	2.1	1
Carbon disulfide	ND		ug/kg	9.1	1.0	1
2-Butanone	ND		ug/kg	9.1	0.62	1
Vinyl acetate	ND		ug/kg	9.1	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	9.1	0.22	1
1,2,3-Trichloropropane	ND		ug/kg	9.1	0.16	1
2-Hexanone	ND		ug/kg	9.1	0.60	1
Bromochloromethane	ND		ug/kg	4.5	0.32	1
2,2-Dichloropropane	ND		ug/kg	4.5	0.41	1
1,2-Dibromoethane	ND		ug/kg	3.6	0.18	1
1,3-Dichloropropane	ND		ug/kg	4.5	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.91	0.29	1
Bromobenzene	ND		ug/kg	4.5	0.20	1
n-Butylbenzene	ND		ug/kg	0.91	0.21	1
sec-Butylbenzene	ND		ug/kg	0.91	0.20	1
tert-Butylbenzene	ND		ug/kg	4.5	0.22	1
o-Chlorotoluene	ND		ug/kg	4.5	0.20	1
p-Chlorotoluene	ND		ug/kg	4.5	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.5	0.36	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.32	1
Isopropylbenzene	ND		ug/kg	0.91	0.18	1
p-Isopropyltoluene	0.59	J	ug/kg	0.91	0.18	1
Naphthalene	0.93	J	ug/kg	4.5	0.12	1
Acrylonitrile	ND		ug/kg	9.1	0.46	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-08
Client ID: TP-1B_GRAB-3
Sample Location: YONKERS, NY
Date Collected: 05/01/18 08:15
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.91	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.5	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.5	0.19	1
1,3,5-Trimethylbenzene	0.78	J	ug/kg	4.5	0.14	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.5	0.17	1
1,4-Dioxane	ND		ug/kg	36	13.	1
p-Diethylbenzene	ND		ug/kg	3.6	3.6	1
p-Ethyltoluene	0.40	J	ug/kg	3.6	0.21	1
1,2,4,5-Tetramethylbenzene	1.2	J	ug/kg	3.6	0.14	1
Ethyl ether	ND		ug/kg	4.5	0.24	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.5	0.36	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	96		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-10
Client ID: TP-3_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/01/18 08:40
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/06/18 13:55
Analyst: JC
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10	1.7	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.28	1
Chloroform	ND		ug/kg	1.6	0.39	1
Carbon tetrachloride	ND		ug/kg	1.0	0.36	1
1,2-Dichloropropane	ND		ug/kg	3.6	0.24	1
Dibromochloromethane	ND		ug/kg	1.0	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.0	0.32	1
Chlorobenzene	ND		ug/kg	1.0	0.36	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.44	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.36	1
Bromodichloromethane	ND		ug/kg	1.0	0.32	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.22	1
1,1-Dichloropropene	ND		ug/kg	5.2	0.34	1
Bromoform	ND		ug/kg	4.2	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.31	1
Benzene	ND		ug/kg	1.0	0.20	1
Toluene	ND		ug/kg	1.6	0.20	1
Ethylbenzene	ND		ug/kg	1.0	0.18	1
Chloromethane	ND		ug/kg	5.2	0.46	1
Bromomethane	ND		ug/kg	2.1	0.35	1
Vinyl chloride	ND		ug/kg	2.1	0.33	1
Chloroethane	ND		ug/kg	2.1	0.33	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.39	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.25	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-10
Client ID: TP-3_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/01/18 08:40
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	7.1		ug/kg	1.0	0.32	1
1,2-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	5.2	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.16	1
p/m-Xylene	ND		ug/kg	2.1	0.37	1
o-Xylene	ND		ug/kg	2.1	0.35	1
Xylenes, Total	ND		ug/kg	2.1	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.36	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.25	1
Dibromomethane	ND		ug/kg	10	0.25	1
Styrene	ND		ug/kg	2.1	0.42	1
Dichlorodifluoromethane	ND		ug/kg	10	0.52	1
Acetone	9.8	J	ug/kg	10	2.4	1
Carbon disulfide	ND		ug/kg	10	1.1	1
2-Butanone	ND		ug/kg	10	0.72	1
Vinyl acetate	ND		ug/kg	10	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.25	1
1,2,3-Trichloropropane	ND		ug/kg	10	0.18	1
2-Hexanone	ND		ug/kg	10	0.70	1
Bromochloromethane	ND		ug/kg	5.2	0.37	1
2,2-Dichloropropane	ND		ug/kg	5.2	0.47	1
1,2-Dibromoethane	ND		ug/kg	4.2	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.33	1
Bromobenzene	ND		ug/kg	5.2	0.23	1
n-Butylbenzene	ND		ug/kg	1.0	0.24	1
sec-Butylbenzene	ND		ug/kg	1.0	0.23	1
tert-Butylbenzene	ND		ug/kg	5.2	0.26	1
o-Chlorotoluene	ND		ug/kg	5.2	0.23	1
p-Chlorotoluene	ND		ug/kg	5.2	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.2	0.41	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.36	1
Isopropylbenzene	ND		ug/kg	1.0	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.21	1
Naphthalene	0.68	J	ug/kg	5.2	0.14	1
Acrylonitrile	ND		ug/kg	10	0.54	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-10
Client ID: TP-3_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/01/18 08:40
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.2	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.2	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.2	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.2	0.19	1
1,4-Dioxane	ND		ug/kg	42	15.	1
p-Diethylbenzene	ND		ug/kg	4.2	4.2	1
p-Ethyltoluene	ND		ug/kg	4.2	0.24	1
1,2,4,5-Tetramethylbenzene	0.24	J	ug/kg	4.2	0.16	1
Ethyl ether	ND		ug/kg	5.2	0.27	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	0.41	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	96		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-11
Client ID: TP-3_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/01/18 08:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/08/18 11:44
Analyst: JC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.9	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.31	1
Chloroform	0.63	J	ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.1	0.39	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.36	1
Tetrachloroethene	ND		ug/kg	1.1	0.34	1
Chlorobenzene	ND		ug/kg	1.1	0.40	1
Trichlorofluoromethane	ND		ug/kg	5.7	0.47	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.40	1
Bromodichloromethane	ND		ug/kg	1.1	0.35	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.26	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.24	1
1,1-Dichloropropene	ND		ug/kg	5.7	0.37	1
Bromoform	ND		ug/kg	4.5	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Benzene	ND		ug/kg	1.1	0.22	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.19	1
Chloromethane	ND		ug/kg	5.7	0.50	1
Bromomethane	ND		ug/kg	2.3	0.38	1
Vinyl chloride	ND		ug/kg	2.3	0.36	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.42	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.27	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-11
Client ID: TP-3_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/01/18 08:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	1.9		ug/kg	1.1	0.34	1
1,2-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.7	0.25	1
1,4-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.17	1
p/m-Xylene	ND		ug/kg	2.3	0.40	1
o-Xylene	ND		ug/kg	2.3	0.38	1
Xylenes, Total	ND		ug/kg	2.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.39	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.27	1
Dibromomethane	ND		ug/kg	11	0.27	1
Styrene	ND		ug/kg	2.3	0.46	1
Dichlorodifluoromethane	ND		ug/kg	11	0.57	1
Acetone	27		ug/kg	11	2.6	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.78	1
Vinyl acetate	ND		ug/kg	11	0.17	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.20	1
2-Hexanone	ND		ug/kg	11	0.76	1
Bromochloromethane	ND		ug/kg	5.7	0.40	1
2,2-Dichloropropane	ND		ug/kg	5.7	0.51	1
1,2-Dibromoethane	ND		ug/kg	4.5	0.23	1
1,3-Dichloropropane	ND		ug/kg	5.7	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.7	0.25	1
n-Butylbenzene	ND		ug/kg	1.1	0.26	1
sec-Butylbenzene	ND		ug/kg	1.1	0.25	1
tert-Butylbenzene	ND		ug/kg	5.7	0.28	1
o-Chlorotoluene	ND		ug/kg	5.7	0.25	1
p-Chlorotoluene	ND		ug/kg	5.7	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	0.45	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.40	1
Isopropylbenzene	ND		ug/kg	1.1	0.22	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.23	1
Naphthalene	2.4	J	ug/kg	5.7	0.16	1
Acrylonitrile	ND		ug/kg	11	0.58	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-11
Client ID: TP-3_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/01/18 08:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.7	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.7	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.7	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.7	0.21	1
1,4-Dioxane	ND		ug/kg	45	16.	1
p-Diethylbenzene	ND		ug/kg	4.5	4.5	1
p-Ethyltoluene	ND		ug/kg	4.5	0.26	1
1,2,4,5-Tetramethylbenzene	0.22	J	ug/kg	4.5	0.18	1
Ethyl ether	ND		ug/kg	5.7	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	0.44	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	95		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-13
Client ID: TP-4_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/01/18 09:30
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 10:38
Analyst: JC
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	560	92.	1
1,1-Dichloroethane	ND		ug/kg	84	15.	1
Chloroform	ND		ug/kg	84	21.	1
Carbon tetrachloride	ND		ug/kg	56	19.	1
1,2-Dichloropropane	ND		ug/kg	200	13.	1
Dibromochloromethane	ND		ug/kg	56	9.9	1
1,1,2-Trichloroethane	ND		ug/kg	84	18.	1
Tetrachloroethene	110		ug/kg	56	17.	1
Chlorobenzene	ND		ug/kg	56	20.	1
Trichlorofluoromethane	ND		ug/kg	280	23.	1
1,2-Dichloroethane	ND		ug/kg	56	14.	1
1,1,1-Trichloroethane	ND		ug/kg	56	20.	1
Bromodichloromethane	ND		ug/kg	56	17.	1
trans-1,3-Dichloropropene	ND		ug/kg	56	12.	1
cis-1,3-Dichloropropene	ND		ug/kg	56	13.	1
1,3-Dichloropropene, Total	ND		ug/kg	56	12.	1
1,1-Dichloropropene	ND		ug/kg	280	18.	1
Bromoform	ND		ug/kg	220	13.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	56	17.	1
Benzene	ND		ug/kg	56	11.	1
Toluene	ND		ug/kg	84	11.	1
Ethylbenzene	ND		ug/kg	56	9.5	1
Chloromethane	ND		ug/kg	280	24.	1
Bromomethane	ND		ug/kg	110	19.	1
Vinyl chloride	ND		ug/kg	110	18.	1
Chloroethane	ND		ug/kg	110	18.	1
1,1-Dichloroethene	ND		ug/kg	56	21.	1
trans-1,2-Dichloroethene	ND		ug/kg	84	14.	1

Project Name: FORMER BICC **Lab Number:** L1815546

Project Number: 056970006 **Report Date:** 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-13 Date Collected: 05/01/18 09:30

Client ID: TP-4_GRAB-1 Date Received: 05/01/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	1600		ug/kg	56	17.	1
1,2-Dichlorobenzene	ND		ug/kg	280	10.	1
1,3-Dichlorobenzene	ND		ug/kg	280	12.	1
1,4-Dichlorobenzene	ND		ug/kg	280	10.	1
Methyl tert butyl ether	ND		ug/kg	110	8.6	1
p/m-Xylene	ND		ug/kg	110	20.	1
o-Xylene	ND		ug/kg	110	19.	1
Xylenes, Total	ND		ug/kg	110	19.	1
cis-1,2-Dichloroethene	ND		ug/kg	56	19.	1
1,2-Dichloroethene, Total	ND		ug/kg	56	14.	1
Dibromomethane	ND		ug/kg	560	13.	1
Styrene	ND		ug/kg	110	22.	1
Dichlorodifluoromethane	ND		ug/kg	560	28.	1
Acetone	ND		ug/kg	560	130	1
Carbon disulfide	ND		ug/kg	560	62.	1
2-Butanone	ND		ug/kg	560	39.	1
Vinyl acetate	ND		ug/kg	560	8.6	1
4-Methyl-2-pentanone	ND		ug/kg	560	14.	1
1,2,3-Trichloropropane	ND		ug/kg	560	9.9	1
2-Hexanone	ND		ug/kg	560	37.	1
Bromochloromethane	ND		ug/kg	280	20.	1
2,2-Dichloropropane	ND		ug/kg	280	25.	1
1,2-Dibromoethane	ND		ug/kg	220	11.	1
1,3-Dichloropropane	ND		ug/kg	280	10.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	56	18.	1
Bromobenzene	ND		ug/kg	280	12.	1
n-Butylbenzene	ND		ug/kg	56	13.	1
sec-Butylbenzene	ND		ug/kg	56	12.	1
tert-Butylbenzene	ND		ug/kg	280	14.	1
o-Chlorotoluene	ND		ug/kg	280	12.	1
p-Chlorotoluene	ND		ug/kg	280	10.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	280	22.	1
Hexachlorobutadiene	ND		ug/kg	280	20.	1
Isopropylbenzene	ND		ug/kg	56	11.	1
p-Isopropyltoluene	ND		ug/kg	56	11.	1
Naphthalene	13	J	ug/kg	280	7.7	1
Acrylonitrile	ND		ug/kg	560	29.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-13
Client ID: TP-4_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/01/18 09:30
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	56	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	280	14.	1
1,2,4-Trichlorobenzene	ND		ug/kg	280	12.	1
1,3,5-Trimethylbenzene	ND		ug/kg	280	9.0	1
1,2,4-Trimethylbenzene	ND		ug/kg	280	10.	1
1,4-Dioxane	ND		ug/kg	2200	810	1
p-Diethylbenzene	ND		ug/kg	220	220	1
p-Ethyltoluene	ND		ug/kg	220	13.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	220	8.7	1
Ethyl ether	ND		ug/kg	280	14.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	280	22.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	84		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	88		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-14
Client ID: TP-4_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/01/18 09:40
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/08/18 12:12
Analyst: JC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10	1.7	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.28	1
Chloroform	ND		ug/kg	1.6	0.39	1
Carbon tetrachloride	ND		ug/kg	1.0	0.36	1
1,2-Dichloropropane	ND		ug/kg	3.7	0.24	1
Dibromochloromethane	ND		ug/kg	1.0	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.0	0.32	1
Chlorobenzene	ND		ug/kg	1.0	0.36	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.44	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.37	1
Bromodichloromethane	ND		ug/kg	1.0	0.32	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.22	1
1,1-Dichloropropene	ND		ug/kg	5.2	0.34	1
Bromoform	ND		ug/kg	4.2	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.31	1
Benzene	ND		ug/kg	1.0	0.20	1
Toluene	0.22	J	ug/kg	1.6	0.20	1
Ethylbenzene	ND		ug/kg	1.0	0.18	1
Chloromethane	ND		ug/kg	5.2	0.46	1
Bromomethane	ND		ug/kg	2.1	0.35	1
Vinyl chloride	ND		ug/kg	2.1	0.33	1
Chloroethane	ND		ug/kg	2.1	0.33	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.39	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.25	1

Project Name: FORMER BICC **Lab Number:** L1815546

Project Number: 056970006 **Report Date:** 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-14 Date Collected: 05/01/18 09:40

Client ID: TP-4_GRAB-2 Date Received: 05/01/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	0.70	J	ug/kg	1.0	0.32	1
1,2-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	5.2	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.16	1
p/m-Xylene	ND		ug/kg	2.1	0.37	1
o-Xylene	ND		ug/kg	2.1	0.35	1
Xylenes, Total	ND		ug/kg	2.1	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.36	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.25	1
Dibromomethane	ND		ug/kg	10	0.25	1
Styrene	ND		ug/kg	2.1	0.42	1
Dichlorodifluoromethane	ND		ug/kg	10	0.52	1
Acetone	64		ug/kg	10	2.4	1
Carbon disulfide	ND		ug/kg	10	1.2	1
2-Butanone	7.6	J	ug/kg	10	0.72	1
Vinyl acetate	ND		ug/kg	10	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	10	0.18	1
2-Hexanone	ND		ug/kg	10	0.70	1
Bromochloromethane	ND		ug/kg	5.2	0.37	1
2,2-Dichloropropane	ND		ug/kg	5.2	0.47	1
1,2-Dibromoethane	ND		ug/kg	4.2	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.33	1
Bromobenzene	ND		ug/kg	5.2	0.23	1
n-Butylbenzene	ND		ug/kg	1.0	0.24	1
sec-Butylbenzene	ND		ug/kg	1.0	0.23	1
tert-Butylbenzene	ND		ug/kg	5.2	0.26	1
o-Chlorotoluene	ND		ug/kg	5.2	0.23	1
p-Chlorotoluene	ND		ug/kg	5.2	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.2	0.42	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.36	1
Isopropylbenzene	ND		ug/kg	1.0	0.20	1
p-Isopropyltoluene	0.39	J	ug/kg	1.0	0.21	1
Naphthalene	0.17	J	ug/kg	5.2	0.14	1
Acrylonitrile	ND		ug/kg	10	0.54	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-14
Client ID: TP-4_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/01/18 09:40
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.2	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.2	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.2	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.2	0.20	1
1,4-Dioxane	ND		ug/kg	42	15.	1
p-Diethylbenzene	ND		ug/kg	4.2	4.2	1
p-Ethyltoluene	ND		ug/kg	4.2	0.24	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.2	0.16	1
Ethyl ether	ND		ug/kg	5.2	0.27	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	0.41	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-16
Client ID: TP-5A_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/01/18 10:20
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/06/18 14:22
Analyst: JC
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	19	3.1	1
1,1-Dichloroethane	ND		ug/kg	2.8	0.51	1
Chloroform	ND		ug/kg	2.8	0.69	1
Carbon tetrachloride	ND		ug/kg	1.9	0.65	1
1,2-Dichloropropane	ND		ug/kg	6.6	0.43	1
Dibromochloromethane	ND		ug/kg	1.9	0.33	1
1,1,2-Trichloroethane	ND		ug/kg	2.8	0.59	1
Tetrachloroethene	4.3		ug/kg	1.9	0.57	1
Chlorobenzene	ND		ug/kg	1.9	0.65	1
Trichlorofluoromethane	ND		ug/kg	9.4	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.9	0.46	1
1,1,1-Trichloroethane	ND		ug/kg	1.9	0.66	1
Bromodichloromethane	ND		ug/kg	1.9	0.58	1
trans-1,3-Dichloropropene	ND		ug/kg	1.9	0.39	1
cis-1,3-Dichloropropene	ND		ug/kg	1.9	0.43	1
1,3-Dichloropropene, Total	ND		ug/kg	1.9	0.39	1
1,1-Dichloropropene	ND		ug/kg	9.4	0.62	1
Bromoform	ND		ug/kg	7.5	0.44	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.9	0.56	1
Benzene	ND		ug/kg	1.9	0.36	1
Toluene	ND		ug/kg	2.8	0.36	1
Ethylbenzene	ND		ug/kg	1.9	0.32	1
Chloromethane	ND		ug/kg	9.4	0.82	1
Bromomethane	ND		ug/kg	3.8	0.63	1
Vinyl chloride	ND		ug/kg	3.8	0.59	1
Chloroethane	ND		ug/kg	3.8	0.59	1
1,1-Dichloroethene	ND		ug/kg	1.9	0.70	1
trans-1,2-Dichloroethene	ND		ug/kg	2.8	0.45	1

Project Name: FORMER BICC **Lab Number:** L1815546

Project Number: 056970006 **Report Date:** 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-16 Date Collected: 05/01/18 10:20

Client ID: TP-5A_GRAB-1 Date Received: 05/01/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	58		ug/kg	1.9	0.57	1
1,2-Dichlorobenzene	ND		ug/kg	9.4	0.34	1
1,3-Dichlorobenzene	ND		ug/kg	9.4	0.41	1
1,4-Dichlorobenzene	ND		ug/kg	9.4	0.34	1
Methyl tert butyl ether	ND		ug/kg	3.8	0.29	1
p/m-Xylene	ND		ug/kg	3.8	0.66	1
o-Xylene	ND		ug/kg	3.8	0.63	1
Xylenes, Total	ND		ug/kg	3.8	0.63	1
cis-1,2-Dichloroethene	ND		ug/kg	1.9	0.64	1
1,2-Dichloroethene, Total	ND		ug/kg	1.9	0.45	1
Dibromomethane	ND		ug/kg	19	0.45	1
Styrene	ND		ug/kg	3.8	0.75	1
Dichlorodifluoromethane	ND		ug/kg	19	0.94	1
Acetone	ND		ug/kg	19	4.3	1
Carbon disulfide	ND		ug/kg	19	2.1	1
2-Butanone	ND		ug/kg	19	1.3	1
Vinyl acetate	ND		ug/kg	19	0.29	1
4-Methyl-2-pentanone	ND		ug/kg	19	0.46	1
1,2,3-Trichloropropane	ND		ug/kg	19	0.33	1
2-Hexanone	ND		ug/kg	19	1.2	1
Bromochloromethane	ND		ug/kg	9.4	0.67	1
2,2-Dichloropropane	ND		ug/kg	9.4	0.84	1
1,2-Dibromoethane	ND		ug/kg	7.5	0.37	1
1,3-Dichloropropane	ND		ug/kg	9.4	0.34	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.9	0.60	1
Bromobenzene	ND		ug/kg	9.4	0.41	1
n-Butylbenzene	ND		ug/kg	1.9	0.43	1
sec-Butylbenzene	ND		ug/kg	1.9	0.41	1
tert-Butylbenzene	ND		ug/kg	9.4	0.46	1
o-Chlorotoluene	ND		ug/kg	9.4	0.41	1
p-Chlorotoluene	ND		ug/kg	9.4	0.34	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	9.4	0.74	1
Hexachlorobutadiene	ND		ug/kg	9.4	0.65	1
Isopropylbenzene	ND		ug/kg	1.9	0.36	1
p-Isopropyltoluene	ND		ug/kg	1.9	0.38	1
Naphthalene	ND		ug/kg	9.4	0.26	1
Acrylonitrile	ND		ug/kg	19	0.96	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-16
Client ID: TP-5A_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/01/18 10:20
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.9	0.40	1
1,2,3-Trichlorobenzene	ND		ug/kg	9.4	0.47	1
1,2,4-Trichlorobenzene	ND		ug/kg	9.4	0.40	1
1,3,5-Trimethylbenzene	ND		ug/kg	9.4	0.30	1
1,2,4-Trimethylbenzene	ND		ug/kg	9.4	0.35	1
1,4-Dioxane	ND		ug/kg	75	27.	1
p-Diethylbenzene	ND		ug/kg	7.5	7.5	1
p-Ethyltoluene	ND		ug/kg	7.5	0.44	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	7.5	0.29	1
Ethyl ether	ND		ug/kg	9.4	0.49	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	9.4	0.74	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	96		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-17
Client ID: TP-5A_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/01/18 10:30
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/06/18 14:50
Analyst: JC
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	2.2	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.37	1
Chloroform	ND		ug/kg	2.0	0.50	1
Carbon tetrachloride	ND		ug/kg	1.4	0.47	1
1,2-Dichloropropane	ND		ug/kg	4.8	0.31	1
Dibromochloromethane	ND		ug/kg	1.4	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.43	1
Tetrachloroethene	0.82	J	ug/kg	1.4	0.41	1
Chlorobenzene	ND		ug/kg	1.4	0.47	1
Trichlorofluoromethane	ND		ug/kg	6.8	0.57	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.48	1
Bromodichloromethane	ND		ug/kg	1.4	0.42	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.32	1
1,3-Dichloropropene, Total	ND		ug/kg	1.4	0.28	1
1,1-Dichloropropene	ND		ug/kg	6.8	0.45	1
Bromoform	ND		ug/kg	5.4	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.41	1
Benzene	ND		ug/kg	1.4	0.26	1
Toluene	ND		ug/kg	2.0	0.27	1
Ethylbenzene	ND		ug/kg	1.4	0.23	1
Chloromethane	ND		ug/kg	6.8	0.59	1
Bromomethane	ND		ug/kg	2.7	0.46	1
Vinyl chloride	ND		ug/kg	2.7	0.43	1
Chloroethane	ND		ug/kg	2.7	0.43	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.51	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.33	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-17
Client ID: TP-5A_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/01/18 10:30
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	5.1		ug/kg	1.4	0.41	1
1,2-Dichlorobenzene	ND		ug/kg	6.8	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	6.8	0.30	1
1,4-Dichlorobenzene	ND		ug/kg	6.8	0.25	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.21	1
p/m-Xylene	ND		ug/kg	2.7	0.48	1
o-Xylene	ND		ug/kg	2.7	0.46	1
Xylenes, Total	ND		ug/kg	2.7	0.46	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.47	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.33	1
Dibromomethane	ND		ug/kg	14	0.33	1
Styrene	ND		ug/kg	2.7	0.55	1
Dichlorodifluoromethane	ND		ug/kg	14	0.68	1
Acetone	17		ug/kg	14	3.1	1
Carbon disulfide	ND		ug/kg	14	1.5	1
2-Butanone	ND		ug/kg	14	0.94	1
Vinyl acetate	ND		ug/kg	14	0.21	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.33	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.24	1
2-Hexanone	ND		ug/kg	14	0.91	1
Bromochloromethane	ND		ug/kg	6.8	0.49	1
2,2-Dichloropropane	ND		ug/kg	6.8	0.61	1
1,2-Dibromoethane	ND		ug/kg	5.4	0.27	1
1,3-Dichloropropane	ND		ug/kg	6.8	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.43	1
Bromobenzene	ND		ug/kg	6.8	0.30	1
n-Butylbenzene	ND		ug/kg	1.4	0.31	1
sec-Butylbenzene	ND		ug/kg	1.4	0.30	1
tert-Butylbenzene	ND		ug/kg	6.8	0.34	1
o-Chlorotoluene	ND		ug/kg	6.8	0.30	1
p-Chlorotoluene	ND		ug/kg	6.8	0.25	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.8	0.54	1
Hexachlorobutadiene	ND		ug/kg	6.8	0.47	1
Isopropylbenzene	ND		ug/kg	1.4	0.26	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.28	1
Naphthalene	ND		ug/kg	6.8	0.19	1
Acrylonitrile	ND		ug/kg	14	0.70	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-17
Client ID: TP-5A_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/01/18 10:30
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.29	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.8	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.8	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.8	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.8	0.25	1
1,4-Dioxane	ND		ug/kg	54	20.	1
p-Diethylbenzene	ND		ug/kg	5.4	5.4	1
p-Ethyltoluene	ND		ug/kg	5.4	0.32	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.4	0.21	1
Ethyl ether	ND		ug/kg	6.8	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.8	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-19
Client ID: TP-5B_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/01/18 10:25
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/06/18 15:17
Analyst: JC
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.1	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.34	1
Chloroform	ND		ug/kg	1.9	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.43	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.39	1
Tetrachloroethene	ND		ug/kg	1.2	0.38	1
Chlorobenzene	ND		ug/kg	1.2	0.44	1
Trichlorofluoromethane	ND		ug/kg	6.3	0.52	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.44	1
Bromodichloromethane	ND		ug/kg	1.2	0.39	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.29	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.26	1
1,1-Dichloropropene	ND		ug/kg	6.3	0.41	1
Bromoform	ND		ug/kg	5.0	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.37	1
Benzene	ND		ug/kg	1.2	0.24	1
Toluene	ND		ug/kg	1.9	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.21	1
Chloromethane	ND		ug/kg	6.3	0.55	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	ND		ug/kg	2.5	0.40	1
Chloroethane	ND		ug/kg	2.5	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.47	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.30	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-19
Client ID: TP-5B_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/01/18 10:25
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	0.51	J	ug/kg	1.2	0.38	1
1,2-Dichlorobenzene	ND		ug/kg	6.3	0.23	1
1,3-Dichlorobenzene	ND		ug/kg	6.3	0.27	1
1,4-Dichlorobenzene	ND		ug/kg	6.3	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.19	1
p/m-Xylene	ND		ug/kg	2.5	0.44	1
o-Xylene	ND		ug/kg	2.5	0.42	1
Xylenes, Total	ND		ug/kg	2.5	0.42	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.43	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.30	1
Dibromomethane	ND		ug/kg	12	0.30	1
Styrene	ND		ug/kg	2.5	0.50	1
Dichlorodifluoromethane	ND		ug/kg	12	0.63	1
Acetone	ND		ug/kg	12	2.9	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	ND		ug/kg	12	0.86	1
Vinyl acetate	ND		ug/kg	12	0.19	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.31	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.22	1
2-Hexanone	ND		ug/kg	12	0.84	1
Bromochloromethane	ND		ug/kg	6.3	0.45	1
2,2-Dichloropropane	ND		ug/kg	6.3	0.56	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.25	1
1,3-Dichloropropane	ND		ug/kg	6.3	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.40	1
Bromobenzene	ND		ug/kg	6.3	0.27	1
n-Butylbenzene	ND		ug/kg	1.2	0.28	1
sec-Butylbenzene	ND		ug/kg	1.2	0.27	1
tert-Butylbenzene	ND		ug/kg	6.3	0.31	1
o-Chlorotoluene	ND		ug/kg	6.3	0.28	1
p-Chlorotoluene	ND		ug/kg	6.3	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.3	0.50	1
Hexachlorobutadiene	ND		ug/kg	6.3	0.44	1
Isopropylbenzene	ND		ug/kg	1.2	0.24	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.25	1
Naphthalene	ND		ug/kg	6.3	0.17	1
Acrylonitrile	ND		ug/kg	12	0.64	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-19
Client ID: TP-5B_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/01/18 10:25
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.27	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.3	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.3	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.3	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.3	0.23	1
1,4-Dioxane	ND		ug/kg	50	18.	1
p-Diethylbenzene	ND		ug/kg	5.0	5.0	1
p-Ethyltoluene	ND		ug/kg	5.0	0.29	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.0	0.20	1
Ethyl ether	ND		ug/kg	6.3	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.3	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-20
Client ID: TP-5B_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/01/18 10:35
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/06/18 15:45
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.29	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.37	1
1,2-Dichloropropane	ND		ug/kg	3.7	0.24	1
Dibromochloromethane	ND		ug/kg	1.1	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.32	1
Chlorobenzene	ND		ug/kg	1.1	0.37	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.45	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.37	1
Bromodichloromethane	ND		ug/kg	1.1	0.33	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.25	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.22	1
1,1-Dichloropropene	ND		ug/kg	5.4	0.35	1
Bromoform	ND		ug/kg	4.3	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.32	1
Benzene	ND		ug/kg	1.1	0.21	1
Toluene	0.37	J	ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.18	1
Chloromethane	ND		ug/kg	5.4	0.47	1
Bromomethane	ND		ug/kg	2.1	0.36	1
Vinyl chloride	ND		ug/kg	2.1	0.34	1
Chloroethane	ND		ug/kg	2.1	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.40	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.26	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-20
Client ID: TP-5B_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/01/18 10:35
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.1	0.32	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	5.4	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	5.4	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.16	1
p/m-Xylene	ND		ug/kg	2.1	0.38	1
o-Xylene	ND		ug/kg	2.1	0.36	1
Xylenes, Total	ND		ug/kg	2.1	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.37	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.26	1
Dibromomethane	ND		ug/kg	11	0.26	1
Styrene	ND		ug/kg	2.1	0.43	1
Dichlorodifluoromethane	ND		ug/kg	11	0.54	1
Acetone	98		ug/kg	11	2.4	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	18		ug/kg	11	0.74	1
Vinyl acetate	ND		ug/kg	11	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.19	1
2-Hexanone	ND		ug/kg	11	0.71	1
Bromochloromethane	ND		ug/kg	5.4	0.38	1
2,2-Dichloropropane	ND		ug/kg	5.4	0.48	1
1,2-Dibromoethane	ND		ug/kg	4.3	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.4	0.23	1
n-Butylbenzene	ND		ug/kg	1.1	0.24	1
sec-Butylbenzene	ND		ug/kg	1.1	0.23	1
tert-Butylbenzene	ND		ug/kg	5.4	0.26	1
o-Chlorotoluene	ND		ug/kg	5.4	0.24	1
p-Chlorotoluene	ND		ug/kg	5.4	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	0.42	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.37	1
Isopropylbenzene	ND		ug/kg	1.1	0.21	1
p-Isopropyltoluene	0.30	J	ug/kg	1.1	0.22	1
Naphthalene	ND		ug/kg	5.4	0.15	1
Acrylonitrile	ND		ug/kg	11	0.55	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-20
Client ID: TP-5B_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/01/18 10:35
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	0.20	1
1,4-Dioxane	ND		ug/kg	43	15.	1
p-Diethylbenzene	ND		ug/kg	4.3	4.3	1
p-Ethyltoluene	ND		ug/kg	4.3	0.25	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.3	0.17	1
Ethyl ether	ND		ug/kg	5.4	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	0.42	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-22
Client ID: TP-6_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/01/18 11:05
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/06/18 16:12
Analyst: JC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.30	1
Chloroform	ND		ug/kg	1.7	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.38	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.35	1
Tetrachloroethene	ND		ug/kg	1.1	0.33	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.46	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.39	1
Bromodichloromethane	ND		ug/kg	1.1	0.34	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.26	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.23	1
1,1-Dichloropropene	ND		ug/kg	5.5	0.36	1
Bromoform	ND		ug/kg	4.4	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.33	1
Benzene	ND		ug/kg	1.1	0.21	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.19	1
Chloromethane	ND		ug/kg	5.5	0.48	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.35	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.41	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.27	1

Project Name: FORMER BICC **Lab Number:** L1815546

Project Number: 056970006 **Report Date:** 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-22 Date Collected: 05/01/18 11:05

Client ID: TP-6_GRAB-1 Date Received: 05/01/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	5.1		ug/kg	1.1	0.33	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.17	1
p/m-Xylene	ND		ug/kg	2.2	0.39	1
o-Xylene	ND		ug/kg	2.2	0.37	1
Xylenes, Total	ND		ug/kg	2.2	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.38	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.27	1
Dibromomethane	ND		ug/kg	11	0.26	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	11	0.55	1
Acetone	ND		ug/kg	11	2.5	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.76	1
Vinyl acetate	ND		ug/kg	11	0.17	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.20	1
2-Hexanone	ND		ug/kg	11	0.74	1
Bromochloromethane	ND		ug/kg	5.5	0.40	1
2,2-Dichloropropane	ND		ug/kg	5.5	0.50	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.22	1
1,3-Dichloropropane	ND		ug/kg	5.5	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Bromobenzene	ND		ug/kg	5.5	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.25	1
sec-Butylbenzene	ND		ug/kg	1.1	0.24	1
tert-Butylbenzene	ND		ug/kg	5.5	0.27	1
o-Chlorotoluene	ND		ug/kg	5.5	0.24	1
p-Chlorotoluene	ND		ug/kg	5.5	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	0.44	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.38	1
Isopropylbenzene	ND		ug/kg	1.1	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	ND		ug/kg	5.5	0.15	1
Acrylonitrile	ND		ug/kg	11	0.57	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-22
Client ID: TP-6_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/01/18 11:05
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	0.20	1
1,4-Dioxane	ND		ug/kg	44	16.	1
p-Diethylbenzene	ND		ug/kg	4.4	4.4	1
p-Ethyltoluene	ND		ug/kg	4.4	0.26	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.17	1
Ethyl ether	ND		ug/kg	5.5	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	0.43	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	96		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-23
Client ID: TP-6_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/01/18 11:15
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/06/18 16:40
Analyst: JC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.29	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.37	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.24	1
Dibromochloromethane	ND		ug/kg	1.1	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.32	1
Chlorobenzene	ND		ug/kg	1.1	0.37	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.45	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.38	1
Bromodichloromethane	ND		ug/kg	1.1	0.33	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.25	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.22	1
1,1-Dichloropropene	ND		ug/kg	5.4	0.35	1
Bromoform	ND		ug/kg	4.3	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.32	1
Benzene	ND		ug/kg	1.1	0.21	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.18	1
Chloromethane	ND		ug/kg	5.4	0.47	1
Bromomethane	ND		ug/kg	2.1	0.36	1
Vinyl chloride	ND		ug/kg	2.1	0.34	1
Chloroethane	ND		ug/kg	2.1	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.40	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.26	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-23
Client ID: TP-6_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/01/18 11:15
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	5.2		ug/kg	1.1	0.32	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.4	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.16	1
p/m-Xylene	ND		ug/kg	2.1	0.38	1
o-Xylene	ND		ug/kg	2.1	0.36	1
Xylenes, Total	ND		ug/kg	2.1	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.37	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.26	1
Dibromomethane	ND		ug/kg	11	0.26	1
Styrene	ND		ug/kg	2.1	0.43	1
Dichlorodifluoromethane	ND		ug/kg	11	0.54	1
Acetone	11		ug/kg	11	2.4	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.74	1
Vinyl acetate	ND		ug/kg	11	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.19	1
2-Hexanone	ND		ug/kg	11	0.71	1
Bromochloromethane	ND		ug/kg	5.4	0.38	1
2,2-Dichloropropane	ND		ug/kg	5.4	0.48	1
1,2-Dibromoethane	ND		ug/kg	4.3	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.4	0.23	1
n-Butylbenzene	ND		ug/kg	1.1	0.24	1
sec-Butylbenzene	ND		ug/kg	1.1	0.23	1
tert-Butylbenzene	ND		ug/kg	5.4	0.26	1
o-Chlorotoluene	ND		ug/kg	5.4	0.24	1
p-Chlorotoluene	ND		ug/kg	5.4	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	0.42	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.37	1
Isopropylbenzene	ND		ug/kg	1.1	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	ND		ug/kg	5.4	0.15	1
Acrylonitrile	ND		ug/kg	11	0.55	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-23
Client ID: TP-6_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/01/18 11:15
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	0.20	1
1,4-Dioxane	ND		ug/kg	43	15.	1
p-Diethylbenzene	ND		ug/kg	4.3	4.3	1
p-Ethyltoluene	ND		ug/kg	4.3	0.25	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.3	0.17	1
Ethyl ether	ND		ug/kg	5.4	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	0.42	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-25
Client ID: TP-8_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/01/18 11:40
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/06/18 17:08
Analyst: JC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	2.3	1
1,1-Dichloroethane	ND		ug/kg	2.1	0.38	1
Chloroform	ND		ug/kg	2.1	0.52	1
Carbon tetrachloride	ND		ug/kg	1.4	0.48	1
1,2-Dichloropropane	ND		ug/kg	4.9	0.32	1
Dibromochloromethane	ND		ug/kg	1.4	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	2.1	0.44	1
Tetrachloroethene	ND		ug/kg	1.4	0.42	1
Chlorobenzene	ND		ug/kg	1.4	0.48	1
Trichlorofluoromethane	ND		ug/kg	7.0	0.58	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.49	1
Bromodichloromethane	ND		ug/kg	1.4	0.43	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.32	1
1,3-Dichloropropene, Total	ND		ug/kg	1.4	0.29	1
1,1-Dichloropropene	ND		ug/kg	7.0	0.46	1
Bromoform	ND		ug/kg	5.6	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.42	1
Benzene	ND		ug/kg	1.4	0.27	1
Toluene	ND		ug/kg	2.1	0.27	1
Ethylbenzene	ND		ug/kg	1.4	0.24	1
Chloromethane	ND		ug/kg	7.0	0.61	1
Bromomethane	ND		ug/kg	2.8	0.47	1
Vinyl chloride	ND		ug/kg	2.8	0.44	1
Chloroethane	ND		ug/kg	2.8	0.44	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.52	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.34	1

Project Name: FORMER BICC **Lab Number:** L1815546

Project Number: 056970006 **Report Date:** 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-25 Date Collected: 05/01/18 11:40

Client ID: TP-8_GRAB-1 Date Received: 05/01/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	0.54	J	ug/kg	1.4	0.42	1
1,2-Dichlorobenzene	ND		ug/kg	7.0	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	7.0	0.30	1
1,4-Dichlorobenzene	ND		ug/kg	7.0	0.25	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.21	1
p/m-Xylene	ND		ug/kg	2.8	0.49	1
o-Xylene	ND		ug/kg	2.8	0.47	1
Xylenes, Total	ND		ug/kg	2.8	0.47	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.48	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.34	1
Dibromomethane	ND		ug/kg	14	0.33	1
Styrene	ND		ug/kg	2.8	0.56	1
Dichlorodifluoromethane	ND		ug/kg	14	0.70	1
Acetone	3.7	J	ug/kg	14	3.2	1
Carbon disulfide	ND		ug/kg	14	1.5	1
2-Butanone	ND		ug/kg	14	0.96	1
Vinyl acetate	ND		ug/kg	14	0.21	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.34	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.25	1
2-Hexanone	ND		ug/kg	14	0.93	1
Bromochloromethane	ND		ug/kg	7.0	0.50	1
2,2-Dichloropropane	ND		ug/kg	7.0	0.63	1
1,2-Dibromoethane	ND		ug/kg	5.6	0.28	1
1,3-Dichloropropane	ND		ug/kg	7.0	0.26	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.44	1
Bromobenzene	ND		ug/kg	7.0	0.30	1
n-Butylbenzene	ND		ug/kg	1.4	0.32	1
sec-Butylbenzene	ND		ug/kg	1.4	0.30	1
tert-Butylbenzene	ND		ug/kg	7.0	0.34	1
o-Chlorotoluene	ND		ug/kg	7.0	0.31	1
p-Chlorotoluene	ND		ug/kg	7.0	0.26	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.0	0.55	1
Hexachlorobutadiene	ND		ug/kg	7.0	0.48	1
Isopropylbenzene	ND		ug/kg	1.4	0.27	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.28	1
Naphthalene	ND		ug/kg	7.0	0.19	1
Acrylonitrile	ND		ug/kg	14	0.72	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-25
Client ID: TP-8_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/01/18 11:40
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.30	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.0	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.0	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.0	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.0	0.26	1
1,4-Dioxane	ND		ug/kg	56	20.	1
p-Diethylbenzene	ND		ug/kg	5.6	5.6	1
p-Ethyltoluene	ND		ug/kg	5.6	0.33	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.6	0.22	1
Ethyl ether	ND		ug/kg	7.0	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.0	0.55	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	98		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-26
Client ID: TP-8_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/01/18 11:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/06/18 17:35
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	2.2	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.37	1
Chloroform	ND		ug/kg	2.0	0.51	1
Carbon tetrachloride	ND		ug/kg	1.4	0.47	1
1,2-Dichloropropane	ND		ug/kg	4.8	0.31	1
Dibromochloromethane	ND		ug/kg	1.4	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.43	1
Tetrachloroethene	ND		ug/kg	1.4	0.41	1
Chlorobenzene	ND		ug/kg	1.4	0.48	1
Trichlorofluoromethane	ND		ug/kg	6.8	0.57	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.48	1
Bromodichloromethane	ND		ug/kg	1.4	0.42	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.32	1
1,3-Dichloropropene, Total	ND		ug/kg	1.4	0.28	1
1,1-Dichloropropene	ND		ug/kg	6.8	0.45	1
Bromoform	ND		ug/kg	5.5	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.41	1
Benzene	ND		ug/kg	1.4	0.26	1
Toluene	ND		ug/kg	2.0	0.27	1
Ethylbenzene	ND		ug/kg	1.4	0.23	1
Chloromethane	ND		ug/kg	6.8	0.60	1
Bromomethane	ND		ug/kg	2.7	0.46	1
Vinyl chloride	ND		ug/kg	2.7	0.43	1
Chloroethane	ND		ug/kg	2.7	0.43	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.51	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.33	1

Project Name: FORMER BICC **Lab Number:** L1815546

Project Number: 056970006 **Report Date:** 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-26 Date Collected: 05/01/18 11:50

Client ID: TP-8_GRAB-2 Date Received: 05/01/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.4	0.41	1
1,2-Dichlorobenzene	ND		ug/kg	6.8	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	6.8	0.30	1
1,4-Dichlorobenzene	ND		ug/kg	6.8	0.25	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.21	1
p/m-Xylene	ND		ug/kg	2.7	0.48	1
o-Xylene	ND		ug/kg	2.7	0.46	1
Xylenes, Total	ND		ug/kg	2.7	0.46	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.47	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.33	1
Dibromomethane	ND		ug/kg	14	0.33	1
Styrene	ND		ug/kg	2.7	0.55	1
Dichlorodifluoromethane	ND		ug/kg	14	0.68	1
Acetone	15		ug/kg	14	3.1	1
Carbon disulfide	ND		ug/kg	14	1.5	1
2-Butanone	ND		ug/kg	14	0.94	1
Vinyl acetate	ND		ug/kg	14	0.21	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.33	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.24	1
2-Hexanone	ND		ug/kg	14	0.91	1
Bromochloromethane	ND		ug/kg	6.8	0.49	1
2,2-Dichloropropane	ND		ug/kg	6.8	0.62	1
1,2-Dibromoethane	ND		ug/kg	5.5	0.27	1
1,3-Dichloropropane	ND		ug/kg	6.8	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.44	1
Bromobenzene	ND		ug/kg	6.8	0.30	1
n-Butylbenzene	ND		ug/kg	1.4	0.31	1
sec-Butylbenzene	ND		ug/kg	1.4	0.30	1
tert-Butylbenzene	ND		ug/kg	6.8	0.34	1
o-Chlorotoluene	ND		ug/kg	6.8	0.30	1
p-Chlorotoluene	ND		ug/kg	6.8	0.25	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.8	0.54	1
Hexachlorobutadiene	ND		ug/kg	6.8	0.48	1
Isopropylbenzene	ND		ug/kg	1.4	0.26	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.28	1
Naphthalene	ND		ug/kg	6.8	0.19	1
Acrylonitrile	ND		ug/kg	14	0.70	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-26
Client ID: TP-8_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/01/18 11:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.29	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.8	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.8	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.8	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.8	0.25	1
1,4-Dioxane	ND		ug/kg	55	20.	1
p-Diethylbenzene	ND		ug/kg	5.5	5.5	1
p-Ethyltoluene	ND		ug/kg	5.5	0.32	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.5	0.21	1
Ethyl ether	ND		ug/kg	6.8	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.8	0.54	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	96		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-28
Client ID: TP-9A_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/01/18 12:10
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 14:35
Analyst: JC
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.29	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.37	1
1,2-Dichloropropane	ND		ug/kg	3.7	0.24	1
Dibromochloromethane	ND		ug/kg	1.1	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	1.0	J	ug/kg	1.1	0.32	1
Chlorobenzene	ND		ug/kg	1.1	0.37	1
Trichlorofluoromethane	ND		ug/kg	5.3	0.44	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.37	1
Bromodichloromethane	ND		ug/kg	1.1	0.33	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.25	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.22	1
1,1-Dichloropropene	ND		ug/kg	5.3	0.35	1
Bromoform	ND		ug/kg	4.3	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.32	1
Benzene	ND		ug/kg	1.1	0.21	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.18	1
Chloromethane	ND		ug/kg	5.3	0.46	1
Bromomethane	ND		ug/kg	2.1	0.36	1
Vinyl chloride	ND		ug/kg	2.1	0.34	1
Chloroethane	ND		ug/kg	2.1	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.40	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.26	1

Project Name: FORMER BICC **Lab Number:** L1815546

Project Number: 056970006 **Report Date:** 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-28 Date Collected: 05/01/18 12:10

Client ID: TP-9A_GRAB-1 Date Received: 05/01/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	5.2		ug/kg	1.1	0.32	1
1,2-Dichlorobenzene	ND		ug/kg	5.3	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	5.3	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	5.3	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.16	1
p/m-Xylene	ND		ug/kg	2.1	0.37	1
o-Xylene	ND		ug/kg	2.1	0.36	1
Xylenes, Total	ND		ug/kg	2.1	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.36	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.26	1
Dibromomethane	ND		ug/kg	11	0.26	1
Styrene	ND		ug/kg	2.1	0.43	1
Dichlorodifluoromethane	ND		ug/kg	11	0.53	1
Acetone	4.6	J	ug/kg	11	2.4	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.74	1
Vinyl acetate	ND		ug/kg	11	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.19	1
2-Hexanone	ND		ug/kg	11	0.71	1
Bromochloromethane	ND		ug/kg	5.3	0.38	1
2,2-Dichloropropane	ND		ug/kg	5.3	0.48	1
1,2-Dibromoethane	ND		ug/kg	4.3	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.3	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.3	0.23	1
n-Butylbenzene	ND		ug/kg	1.1	0.24	1
sec-Butylbenzene	ND		ug/kg	1.1	0.23	1
tert-Butylbenzene	ND		ug/kg	5.3	0.26	1
o-Chlorotoluene	ND		ug/kg	5.3	0.24	1
p-Chlorotoluene	ND		ug/kg	5.3	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.3	0.42	1
Hexachlorobutadiene	ND		ug/kg	5.3	0.37	1
Isopropylbenzene	ND		ug/kg	1.1	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	0.17	J	ug/kg	5.3	0.15	1
Acrylonitrile	ND		ug/kg	11	0.55	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-28
Client ID: TP-9A_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/01/18 12:10
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.3	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.3	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.3	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.3	0.20	1
1,4-Dioxane	ND		ug/kg	43	15.	1
p-Diethylbenzene	ND		ug/kg	4.3	4.3	1
p-Ethyltoluene	ND		ug/kg	4.3	0.25	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.3	0.17	1
Ethyl ether	ND		ug/kg	5.3	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.3	0.42	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	96		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-29
Client ID: TP-9A_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/01/18 12:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 15:02
Analyst: JC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.9	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.30	1
Chloroform	ND		ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.1	0.39	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.35	1
Tetrachloroethene	ND		ug/kg	1.1	0.34	1
Chlorobenzene	ND		ug/kg	1.1	0.39	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.47	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.40	1
Bromodichloromethane	ND		ug/kg	1.1	0.35	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.26	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.24	1
1,1-Dichloropropene	ND		ug/kg	5.6	0.37	1
Bromoform	ND		ug/kg	4.5	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Benzene	ND		ug/kg	1.1	0.22	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.19	1
Chloromethane	ND		ug/kg	5.6	0.49	1
Bromomethane	ND		ug/kg	2.3	0.38	1
Vinyl chloride	ND		ug/kg	2.3	0.36	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.42	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.27	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-29
Client ID: TP-9A_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/01/18 12:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	8.2		ug/kg	1.1	0.34	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.6	0.25	1
1,4-Dichlorobenzene	ND		ug/kg	5.6	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.17	1
p/m-Xylene	ND		ug/kg	2.3	0.40	1
o-Xylene	ND		ug/kg	2.3	0.38	1
Xylenes, Total	ND		ug/kg	2.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.39	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.27	1
Dibromomethane	ND		ug/kg	11	0.27	1
Styrene	ND		ug/kg	2.3	0.45	1
Dichlorodifluoromethane	ND		ug/kg	11	0.56	1
Acetone	4.7	J	ug/kg	11	2.6	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.78	1
Vinyl acetate	ND		ug/kg	11	0.17	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.20	1
2-Hexanone	ND		ug/kg	11	0.75	1
Bromochloromethane	ND		ug/kg	5.6	0.40	1
2,2-Dichloropropane	ND		ug/kg	5.6	0.51	1
1,2-Dibromoethane	ND		ug/kg	4.5	0.22	1
1,3-Dichloropropane	ND		ug/kg	5.6	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.6	0.25	1
n-Butylbenzene	ND		ug/kg	1.1	0.26	1
sec-Butylbenzene	ND		ug/kg	1.1	0.24	1
tert-Butylbenzene	ND		ug/kg	5.6	0.28	1
o-Chlorotoluene	ND		ug/kg	5.6	0.25	1
p-Chlorotoluene	ND		ug/kg	5.6	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	0.45	1
Hexachlorobutadiene	ND		ug/kg	5.6	0.39	1
Isopropylbenzene	ND		ug/kg	1.1	0.22	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.23	1
Naphthalene	ND		ug/kg	5.6	0.16	1
Acrylonitrile	ND		ug/kg	11	0.58	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-29
Client ID: TP-9A_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/01/18 12:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.6	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.6	0.21	1
1,4-Dioxane	ND		ug/kg	45	16.	1
p-Diethylbenzene	ND		ug/kg	4.5	4.5	1
p-Ethyltoluene	ND		ug/kg	4.5	0.26	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.5	0.18	1
Ethyl ether	ND		ug/kg	5.6	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	0.44	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-31
Client ID: TP-9B_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/01/18 12:55
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 15:30
Analyst: JC
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.2	1.5	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.25	1
Chloroform	ND		ug/kg	1.4	0.34	1
Carbon tetrachloride	ND		ug/kg	0.92	0.32	1
1,2-Dichloropropane	ND		ug/kg	3.2	0.21	1
Dibromochloromethane	ND		ug/kg	0.92	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.29	1
Tetrachloroethene	0.52	J	ug/kg	0.92	0.28	1
Chlorobenzene	ND		ug/kg	0.92	0.32	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.38	1
1,2-Dichloroethane	ND		ug/kg	0.92	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.92	0.32	1
Bromodichloromethane	ND		ug/kg	0.92	0.28	1
trans-1,3-Dichloropropene	ND		ug/kg	0.92	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	0.92	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.92	0.19	1
1,1-Dichloropropene	ND		ug/kg	4.6	0.30	1
Bromoform	ND		ug/kg	3.7	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.92	0.27	1
Benzene	ND		ug/kg	0.92	0.18	1
Toluene	ND		ug/kg	1.4	0.18	1
Ethylbenzene	ND		ug/kg	0.92	0.16	1
Chloromethane	ND		ug/kg	4.6	0.40	1
Bromomethane	ND		ug/kg	1.8	0.31	1
Vinyl chloride	ND		ug/kg	1.8	0.29	1
Chloroethane	ND		ug/kg	1.8	0.29	1
1,1-Dichloroethene	ND		ug/kg	0.92	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.22	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-31
Client ID: TP-9B_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/01/18 12:55
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	15		ug/kg	0.92	0.28	1
1,2-Dichlorobenzene	ND		ug/kg	4.6	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	4.6	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	4.6	0.17	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.14	1
p/m-Xylene	ND		ug/kg	1.8	0.32	1
o-Xylene	ND		ug/kg	1.8	0.31	1
Xylenes, Total	ND		ug/kg	1.8	0.31	1
cis-1,2-Dichloroethene	0.91	J	ug/kg	0.92	0.31	1
1,2-Dichloroethene, Total	0.91	J	ug/kg	0.92	0.22	1
Dibromomethane	ND		ug/kg	9.2	0.22	1
Styrene	ND		ug/kg	1.8	0.37	1
Dichlorodifluoromethane	ND		ug/kg	9.2	0.46	1
Acetone	9.7		ug/kg	9.2	2.1	1
Carbon disulfide	ND		ug/kg	9.2	1.0	1
2-Butanone	ND		ug/kg	9.2	0.63	1
Vinyl acetate	ND		ug/kg	9.2	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	9.2	0.22	1
1,2,3-Trichloropropane	ND		ug/kg	9.2	0.16	1
2-Hexanone	ND		ug/kg	9.2	0.61	1
Bromochloromethane	ND		ug/kg	4.6	0.33	1
2,2-Dichloropropane	ND		ug/kg	4.6	0.41	1
1,2-Dibromoethane	ND		ug/kg	3.7	0.18	1
1,3-Dichloropropane	ND		ug/kg	4.6	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.92	0.29	1
Bromobenzene	ND		ug/kg	4.6	0.20	1
n-Butylbenzene	ND		ug/kg	0.92	0.21	1
sec-Butylbenzene	ND		ug/kg	0.92	0.20	1
tert-Butylbenzene	ND		ug/kg	4.6	0.23	1
o-Chlorotoluene	ND		ug/kg	4.6	0.20	1
p-Chlorotoluene	ND		ug/kg	4.6	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.6	0.36	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.32	1
Isopropylbenzene	ND		ug/kg	0.92	0.18	1
p-Isopropyltoluene	ND		ug/kg	0.92	0.18	1
Naphthalene	ND		ug/kg	4.6	0.13	1
Acrylonitrile	ND		ug/kg	9.2	0.47	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-31
Client ID: TP-9B_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/01/18 12:55
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.92	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.6	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.6	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.6	0.15	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.6	0.17	1
1,4-Dioxane	ND		ug/kg	37	13.	1
p-Diethylbenzene	ND		ug/kg	3.7	3.7	1
p-Ethyltoluene	ND		ug/kg	3.7	0.22	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.7	0.14	1
Ethyl ether	ND		ug/kg	4.6	0.24	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	0.36	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	96		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-32
Client ID: TP-9B_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/01/18 13:00
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 15:58
Analyst: JC
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	15	2.4	1
1,1-Dichloroethane	ND		ug/kg	2.2	0.40	1
Chloroform	ND		ug/kg	2.2	0.55	1
Carbon tetrachloride	ND		ug/kg	1.5	0.51	1
1,2-Dichloropropane	ND		ug/kg	5.2	0.34	1
Dibromochloromethane	ND		ug/kg	1.5	0.26	1
1,1,2-Trichloroethane	ND		ug/kg	2.2	0.46	1
Tetrachloroethene	ND		ug/kg	1.5	0.45	1
Chlorobenzene	ND		ug/kg	1.5	0.51	1
Trichlorofluoromethane	ND		ug/kg	7.4	0.62	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.36	1
1,1,1-Trichloroethane	ND		ug/kg	1.5	0.52	1
Bromodichloromethane	ND		ug/kg	1.5	0.46	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	1.5	0.34	1
1,3-Dichloropropene, Total	ND		ug/kg	1.5	0.31	1
1,1-Dichloropropene	ND		ug/kg	7.4	0.48	1
Bromoform	ND		ug/kg	5.9	0.35	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.5	0.44	1
Benzene	ND		ug/kg	1.5	0.28	1
Toluene	ND		ug/kg	2.2	0.29	1
Ethylbenzene	ND		ug/kg	1.5	0.25	1
Chloromethane	ND		ug/kg	7.4	0.64	1
Bromomethane	ND		ug/kg	3.0	0.50	1
Vinyl chloride	ND		ug/kg	3.0	0.46	1
Chloroethane	ND		ug/kg	3.0	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.55	1
trans-1,2-Dichloroethene	ND		ug/kg	2.2	0.36	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-32
Client ID: TP-9B_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/01/18 13:00
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.5	0.45	1
1,2-Dichlorobenzene	ND		ug/kg	7.4	0.27	1
1,3-Dichlorobenzene	ND		ug/kg	7.4	0.32	1
1,4-Dichlorobenzene	ND		ug/kg	7.4	0.27	1
Methyl tert butyl ether	ND		ug/kg	3.0	0.23	1
p/m-Xylene	ND		ug/kg	3.0	0.52	1
o-Xylene	ND		ug/kg	3.0	0.50	1
Xylenes, Total	ND		ug/kg	3.0	0.50	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.50	1
1,2-Dichloroethene, Total	ND		ug/kg	1.5	0.36	1
Dibromomethane	ND		ug/kg	15	0.35	1
Styrene	ND		ug/kg	3.0	0.59	1
Dichlorodifluoromethane	ND		ug/kg	15	0.74	1
Acetone	22		ug/kg	15	3.4	1
Carbon disulfide	ND		ug/kg	15	1.6	1
2-Butanone	ND		ug/kg	15	1.0	1
Vinyl acetate	ND		ug/kg	15	0.23	1
4-Methyl-2-pentanone	ND		ug/kg	15	0.36	1
1,2,3-Trichloropropane	ND		ug/kg	15	0.26	1
2-Hexanone	ND		ug/kg	15	0.98	1
Bromochloromethane	ND		ug/kg	7.4	0.53	1
2,2-Dichloropropane	ND		ug/kg	7.4	0.66	1
1,2-Dibromoethane	ND		ug/kg	5.9	0.29	1
1,3-Dichloropropane	ND		ug/kg	7.4	0.27	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.5	0.47	1
Bromobenzene	ND		ug/kg	7.4	0.32	1
n-Butylbenzene	ND		ug/kg	1.5	0.34	1
sec-Butylbenzene	ND		ug/kg	1.5	0.32	1
tert-Butylbenzene	ND		ug/kg	7.4	0.36	1
o-Chlorotoluene	ND		ug/kg	7.4	0.33	1
p-Chlorotoluene	ND		ug/kg	7.4	0.27	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.4	0.58	1
Hexachlorobutadiene	ND		ug/kg	7.4	0.51	1
Isopropylbenzene	ND		ug/kg	1.5	0.29	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.30	1
Naphthalene	ND		ug/kg	7.4	0.20	1
Acrylonitrile	ND		ug/kg	15	0.76	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-32
Client ID: TP-9B_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/01/18 13:00
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.5	0.32	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.4	0.37	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.4	0.32	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.4	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.4	0.28	1
1,4-Dioxane	ND		ug/kg	59	21.	1
p-Diethylbenzene	ND		ug/kg	5.9	5.9	1
p-Ethyltoluene	ND		ug/kg	5.9	0.35	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.9	0.23	1
Ethyl ether	ND		ug/kg	7.4	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.4	0.58	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	96		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-34
Client ID: TP-10A_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/01/18 13:30
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 16:25
Analyst: JC
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.30	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.38	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.33	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.46	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.38	1
Bromodichloromethane	ND		ug/kg	1.1	0.34	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.25	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.23	1
1,1-Dichloropropene	ND		ug/kg	5.5	0.36	1
Bromoform	ND		ug/kg	4.4	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.33	1
Benzene	ND		ug/kg	1.1	0.21	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.19	1
Chloromethane	ND		ug/kg	5.5	0.48	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.34	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.41	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.26	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-34
Client ID: TP-10A_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/01/18 13:30
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	5.7		ug/kg	1.1	0.33	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.17	1
p/m-Xylene	ND		ug/kg	2.2	0.38	1
o-Xylene	ND		ug/kg	2.2	0.37	1
Xylenes, Total	ND		ug/kg	2.2	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.38	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.26	1
Dibromomethane	ND		ug/kg	11	0.26	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	11	0.55	1
Acetone	ND		ug/kg	11	2.5	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.76	1
Vinyl acetate	ND		ug/kg	11	0.17	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.19	1
2-Hexanone	ND		ug/kg	11	0.73	1
Bromochloromethane	ND		ug/kg	5.5	0.39	1
2,2-Dichloropropane	ND		ug/kg	5.5	0.49	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.22	1
1,3-Dichloropropane	ND		ug/kg	5.5	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Bromobenzene	ND		ug/kg	5.5	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.25	1
sec-Butylbenzene	ND		ug/kg	1.1	0.24	1
tert-Butylbenzene	ND		ug/kg	5.5	0.27	1
o-Chlorotoluene	ND		ug/kg	5.5	0.24	1
p-Chlorotoluene	ND		ug/kg	5.5	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	0.43	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.38	1
Isopropylbenzene	ND		ug/kg	1.1	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	ND		ug/kg	5.5	0.15	1
Acrylonitrile	ND		ug/kg	11	0.56	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-34
Client ID: TP-10A_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/01/18 13:30
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	0.20	1
1,4-Dioxane	ND		ug/kg	44	16.	1
p-Diethylbenzene	ND		ug/kg	4.4	4.4	1
p-Ethyltoluene	ND		ug/kg	4.4	0.26	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.17	1
Ethyl ether	ND		ug/kg	5.5	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	0.43	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-35
Client ID: TP-10A_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/01/18 13:35
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 16:53
Analyst: JC
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.33	1
Chloroform	ND		ug/kg	1.8	0.45	1
Carbon tetrachloride	ND		ug/kg	1.2	0.42	1
1,2-Dichloropropane	ND		ug/kg	4.3	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.37	1
Chlorobenzene	ND		ug/kg	1.2	0.43	1
Trichlorofluoromethane	ND		ug/kg	6.1	0.51	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.43	1
Bromodichloromethane	ND		ug/kg	1.2	0.38	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.28	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.26	1
1,1-Dichloropropene	ND		ug/kg	6.1	0.40	1
Bromoform	ND		ug/kg	4.9	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.36	1
Benzene	ND		ug/kg	1.2	0.24	1
Toluene	ND		ug/kg	1.8	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.21	1
Chloromethane	ND		ug/kg	6.1	0.54	1
Bromomethane	ND		ug/kg	2.4	0.41	1
Vinyl chloride	ND		ug/kg	2.4	0.39	1
Chloroethane	ND		ug/kg	2.4	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.46	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.30	1

Project Name: FORMER BICC **Lab Number:** L1815546

Project Number: 056970006 **Report Date:** 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-35 Date Collected: 05/01/18 13:35

Client ID: TP-10A_GRAB-2 Date Received: 05/01/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	4.6		ug/kg	1.2	0.37	1
1,2-Dichlorobenzene	ND		ug/kg	6.1	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	6.1	0.27	1
1,4-Dichlorobenzene	ND		ug/kg	6.1	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.19	1
p/m-Xylene	ND		ug/kg	2.4	0.43	1
o-Xylene	ND		ug/kg	2.4	0.41	1
Xylenes, Total	ND		ug/kg	2.4	0.41	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.42	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.30	1
Dibromomethane	ND		ug/kg	12	0.29	1
Styrene	ND		ug/kg	2.4	0.49	1
Dichlorodifluoromethane	ND		ug/kg	12	0.61	1
Acetone	5.2	J	ug/kg	12	2.8	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	ND		ug/kg	12	0.85	1
Vinyl acetate	ND		ug/kg	12	0.19	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.22	1
2-Hexanone	ND		ug/kg	12	0.82	1
Bromochloromethane	ND		ug/kg	6.1	0.44	1
2,2-Dichloropropane	ND		ug/kg	6.1	0.55	1
1,2-Dibromoethane	ND		ug/kg	4.9	0.24	1
1,3-Dichloropropane	ND		ug/kg	6.1	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.39	1
Bromobenzene	ND		ug/kg	6.1	0.27	1
n-Butylbenzene	ND		ug/kg	1.2	0.28	1
sec-Butylbenzene	ND		ug/kg	1.2	0.27	1
tert-Butylbenzene	ND		ug/kg	6.1	0.30	1
o-Chlorotoluene	ND		ug/kg	6.1	0.27	1
p-Chlorotoluene	ND		ug/kg	6.1	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.1	0.49	1
Hexachlorobutadiene	ND		ug/kg	6.1	0.43	1
Isopropylbenzene	ND		ug/kg	1.2	0.24	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.25	1
Naphthalene	ND		ug/kg	6.1	0.17	1
Acrylonitrile	ND		ug/kg	12	0.63	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-35
Client ID: TP-10A_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/01/18 13:35
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.1	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.1	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.1	0.23	1
1,4-Dioxane	ND		ug/kg	49	18.	1
p-Diethylbenzene	ND		ug/kg	4.9	4.9	1
p-Ethyltoluene	ND		ug/kg	4.9	0.29	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.9	0.19	1
Ethyl ether	ND		ug/kg	6.1	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	0.48	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-37
Client ID: TP-10B_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/01/18 13:40
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 17:20
Analyst: JC
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	17	2.8	1
1,1-Dichloroethane	ND		ug/kg	2.6	0.46	1
Chloroform	ND		ug/kg	2.6	0.63	1
Carbon tetrachloride	ND		ug/kg	1.7	0.59	1
1,2-Dichloropropane	ND		ug/kg	6.0	0.39	1
Dibromochloromethane	ND		ug/kg	1.7	0.30	1
1,1,2-Trichloroethane	ND		ug/kg	2.6	0.54	1
Tetrachloroethene	ND		ug/kg	1.7	0.52	1
Chlorobenzene	ND		ug/kg	1.7	0.60	1
Trichlorofluoromethane	ND		ug/kg	8.6	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.7	0.42	1
1,1,1-Trichloroethane	ND		ug/kg	1.7	0.60	1
Bromodichloromethane	ND		ug/kg	1.7	0.53	1
trans-1,3-Dichloropropene	ND		ug/kg	1.7	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	1.7	0.40	1
1,3-Dichloropropene, Total	ND		ug/kg	1.7	0.36	1
1,1-Dichloropropene	ND		ug/kg	8.6	0.56	1
Bromoform	ND		ug/kg	6.9	0.41	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.7	0.51	1
Benzene	ND		ug/kg	1.7	0.33	1
Toluene	ND		ug/kg	2.6	0.33	1
Ethylbenzene	ND		ug/kg	1.7	0.29	1
Chloromethane	ND		ug/kg	8.6	0.75	1
Bromomethane	ND		ug/kg	3.4	0.58	1
Vinyl chloride	ND		ug/kg	3.4	0.54	1
Chloroethane	ND		ug/kg	3.4	0.54	1
1,1-Dichloroethene	ND		ug/kg	1.7	0.64	1
trans-1,2-Dichloroethene	ND		ug/kg	2.6	0.41	1

Project Name: FORMER BICC **Lab Number:** L1815546

Project Number: 056970006 **Report Date:** 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-37 Date Collected: 05/01/18 13:40

Client ID: TP-10B_GRAB-1 Date Received: 05/01/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	7.3		ug/kg	1.7	0.52	1
1,2-Dichlorobenzene	ND		ug/kg	8.6	0.31	1
1,3-Dichlorobenzene	ND		ug/kg	8.6	0.37	1
1,4-Dichlorobenzene	ND		ug/kg	8.6	0.31	1
Methyl tert butyl ether	ND		ug/kg	3.4	0.26	1
p/m-Xylene	ND		ug/kg	3.4	0.60	1
o-Xylene	ND		ug/kg	3.4	0.58	1
Xylenes, Total	ND		ug/kg	3.4	0.58	1
cis-1,2-Dichloroethene	ND		ug/kg	1.7	0.59	1
1,2-Dichloroethene, Total	ND		ug/kg	1.7	0.41	1
Dibromomethane	ND		ug/kg	17	0.41	1
Styrene	ND		ug/kg	3.4	0.69	1
Dichlorodifluoromethane	ND		ug/kg	17	0.86	1
Acetone	11	J	ug/kg	17	3.9	1
Carbon disulfide	ND		ug/kg	17	1.9	1
2-Butanone	ND		ug/kg	17	1.2	1
Vinyl acetate	ND		ug/kg	17	0.26	1
4-Methyl-2-pentanone	ND		ug/kg	17	0.42	1
1,2,3-Trichloropropane	ND		ug/kg	17	0.30	1
2-Hexanone	ND		ug/kg	17	1.1	1
Bromochloromethane	ND		ug/kg	8.6	0.61	1
2,2-Dichloropropane	ND		ug/kg	8.6	0.77	1
1,2-Dibromoethane	ND		ug/kg	6.9	0.34	1
1,3-Dichloropropane	ND		ug/kg	8.6	0.31	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.7	0.54	1
Bromobenzene	ND		ug/kg	8.6	0.38	1
n-Butylbenzene	ND		ug/kg	1.7	0.39	1
sec-Butylbenzene	ND		ug/kg	1.7	0.37	1
tert-Butylbenzene	ND		ug/kg	8.6	0.42	1
o-Chlorotoluene	ND		ug/kg	8.6	0.38	1
p-Chlorotoluene	ND		ug/kg	8.6	0.31	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	8.6	0.68	1
Hexachlorobutadiene	ND		ug/kg	8.6	0.60	1
Isopropylbenzene	ND		ug/kg	1.7	0.33	1
p-Isopropyltoluene	ND		ug/kg	1.7	0.35	1
Naphthalene	ND		ug/kg	8.6	0.24	1
Acrylonitrile	ND		ug/kg	17	0.88	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-37
Client ID: TP-10B_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/01/18 13:40
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.7	0.37	1
1,2,3-Trichlorobenzene	ND		ug/kg	8.6	0.43	1
1,2,4-Trichlorobenzene	ND		ug/kg	8.6	0.37	1
1,3,5-Trimethylbenzene	ND		ug/kg	8.6	0.28	1
1,2,4-Trimethylbenzene	ND		ug/kg	8.6	0.32	1
1,4-Dioxane	ND		ug/kg	69	25.	1
p-Diethylbenzene	ND		ug/kg	6.9	6.9	1
p-Ethyltoluene	ND		ug/kg	6.9	0.40	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.9	0.27	1
Ethyl ether	ND		ug/kg	8.6	0.44	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	8.6	0.67	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-38
Client ID: TP-10B_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/01/18 13:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 17:48
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	2.2	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.37	1
Chloroform	ND		ug/kg	2.0	0.50	1
Carbon tetrachloride	ND		ug/kg	1.4	0.47	1
1,2-Dichloropropane	ND		ug/kg	4.8	0.31	1
Dibromochloromethane	ND		ug/kg	1.4	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.43	1
Tetrachloroethene	ND		ug/kg	1.4	0.41	1
Chlorobenzene	ND		ug/kg	1.4	0.48	1
Trichlorofluoromethane	ND		ug/kg	6.8	0.57	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.48	1
Bromodichloromethane	ND		ug/kg	1.4	0.42	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.32	1
1,3-Dichloropropene, Total	ND		ug/kg	1.4	0.28	1
1,1-Dichloropropene	ND		ug/kg	6.8	0.45	1
Bromoform	ND		ug/kg	5.5	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.41	1
Benzene	ND		ug/kg	1.4	0.26	1
Toluene	ND		ug/kg	2.0	0.27	1
Ethylbenzene	ND		ug/kg	1.4	0.23	1
Chloromethane	ND		ug/kg	6.8	0.60	1
Bromomethane	ND		ug/kg	2.7	0.46	1
Vinyl chloride	ND		ug/kg	2.7	0.43	1
Chloroethane	ND		ug/kg	2.7	0.43	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.51	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.33	1

Project Name: FORMER BICC **Lab Number:** L1815546

Project Number: 056970006 **Report Date:** 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-38 Date Collected: 05/01/18 13:50

Client ID: TP-10B_GRAB-2 Date Received: 05/01/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.4	0.41	1
1,2-Dichlorobenzene	ND		ug/kg	6.8	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	6.8	0.30	1
1,4-Dichlorobenzene	ND		ug/kg	6.8	0.25	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.21	1
p/m-Xylene	ND		ug/kg	2.7	0.48	1
o-Xylene	ND		ug/kg	2.7	0.46	1
Xylenes, Total	ND		ug/kg	2.7	0.46	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.47	1
1,2-Dichloroethene, Total	ND		ug/kg	1.4	0.33	1
Dibromomethane	ND		ug/kg	14	0.33	1
Styrene	ND		ug/kg	2.7	0.55	1
Dichlorodifluoromethane	ND		ug/kg	14	0.68	1
Acetone	28		ug/kg	14	3.1	1
Carbon disulfide	ND		ug/kg	14	1.5	1
2-Butanone	ND		ug/kg	14	0.94	1
Vinyl acetate	ND		ug/kg	14	0.21	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.33	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.24	1
2-Hexanone	ND		ug/kg	14	0.91	1
Bromochloromethane	ND		ug/kg	6.8	0.49	1
2,2-Dichloropropane	ND		ug/kg	6.8	0.61	1
1,2-Dibromoethane	ND		ug/kg	5.5	0.27	1
1,3-Dichloropropane	ND		ug/kg	6.8	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.43	1
Bromobenzene	ND		ug/kg	6.8	0.30	1
n-Butylbenzene	ND		ug/kg	1.4	0.31	1
sec-Butylbenzene	ND		ug/kg	1.4	0.30	1
tert-Butylbenzene	ND		ug/kg	6.8	0.34	1
o-Chlorotoluene	ND		ug/kg	6.8	0.30	1
p-Chlorotoluene	ND		ug/kg	6.8	0.25	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.8	0.54	1
Hexachlorobutadiene	ND		ug/kg	6.8	0.48	1
Isopropylbenzene	ND		ug/kg	1.4	0.26	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.28	1
Naphthalene	0.63	J	ug/kg	6.8	0.19	1
Acrylonitrile	ND		ug/kg	14	0.70	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-38
Client ID: TP-10B_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/01/18 13:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.29	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.8	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.8	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.8	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.8	0.25	1
1,4-Dioxane	ND		ug/kg	55	20.	1
p-Diethylbenzene	ND		ug/kg	5.5	5.5	1
p-Ethyltoluene	ND		ug/kg	5.5	0.32	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.5	0.21	1
Ethyl ether	ND		ug/kg	6.8	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.8	0.54	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	98		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-40
Client ID: TB-2
Sample Location: YONKERS, NY

Date Collected: 05/01/18 00:00
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/02/18 15:37
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-40
Client ID: TB-2
Sample Location: YONKERS, NY
Date Collected: 05/01/18 00:00
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-40
Client ID: TB-2
Sample Location: YONKERS, NY
Date Collected: 05/01/18 00:00
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	95		70-130

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/02/18 12:23
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 40 Batch: WG1111941-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/02/18 12:23
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 40 Batch: WG1111941-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/02/18 12:23
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 40 Batch: WG1111941-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	93		70-130

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/06/18 08:25
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-04,06-08,10,16-17,19-20,22-23,25-26 Batch: WG1113245-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	1.1	J	ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

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Method Blank Analysis
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Analytical Method: 1,8260C
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Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-04,06-08,10,16-17,19-20,22-23,25-26 Batch: WG1113245-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

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Method Blank Analysis
Batch Quality Control

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Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-04,06-08,10,16-17,19-20,22-23,25-26 Batch: WG1113245-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	96		70-130

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Lab Number: L1815546
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Batch Quality Control

Analytical Method: 1,8260C
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Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 13 Batch: WG1113252-5					
Methylene chloride	ND		ug/kg	500	82.
1,1-Dichloroethane	ND		ug/kg	75	14.
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	17.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	8.8
1,1,2-Trichloroethane	ND		ug/kg	75	16.
Tetrachloroethene	ND		ug/kg	50	15.
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	21.
1,2-Dichloroethane	ND		ug/kg	50	12.
1,1,1-Trichloroethane	ND		ug/kg	50	18.
Bromodichloromethane	ND		ug/kg	50	15.
trans-1,3-Dichloropropene	ND		ug/kg	50	10.
cis-1,3-Dichloropropene	ND		ug/kg	50	12.
1,3-Dichloropropene, Total	ND		ug/kg	50	10.
1,1-Dichloropropene	ND		ug/kg	250	16.
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	15.
Benzene	ND		ug/kg	50	9.6
Toluene	ND		ug/kg	75	9.8
Ethylbenzene	ND		ug/kg	50	8.5
Chloromethane	ND		ug/kg	250	22.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	16.
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	19.
trans-1,2-Dichloroethene	ND		ug/kg	75	12.
Trichloroethene	ND		ug/kg	50	15.

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Method Blank Analysis
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Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 13 Batch: WG1113252-5					
1,2-Dichlorobenzene	ND		ug/kg	250	9.1
1,3-Dichlorobenzene	ND		ug/kg	250	11.
1,4-Dichlorobenzene	ND		ug/kg	250	9.1
Methyl tert butyl ether	ND		ug/kg	100	7.6
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
Xylenes, Total	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	17.
1,2-Dichloroethene, Total	ND		ug/kg	50	12.
Dibromomethane	ND		ug/kg	500	12.
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	25.
Acetone	ND		ug/kg	500	110
Carbon disulfide	ND		ug/kg	500	55.
2-Butanone	ND		ug/kg	500	34.
Vinyl acetate	ND		ug/kg	500	7.6
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	8.8
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	18.
2,2-Dichloropropane	ND		ug/kg	250	22.
1,2-Dibromoethane	ND		ug/kg	200	10.
1,3-Dichloropropane	ND		ug/kg	250	9.2
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	11.
n-Butylbenzene	ND		ug/kg	50	11.
sec-Butylbenzene	ND		ug/kg	50	11.
tert-Butylbenzene	ND		ug/kg	250	12.
o-Chlorotoluene	ND		ug/kg	250	11.

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Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 13 Batch: WG1113252-5					
p-Chlorotoluene	ND		ug/kg	250	9.2
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Hexachlorobutadiene	ND		ug/kg	250	17.
Isopropylbenzene	ND		ug/kg	50	9.7
p-Isopropyltoluene	ND		ug/kg	50	10.
Naphthalene	ND		ug/kg	250	6.9
Acrylonitrile	ND		ug/kg	500	26.
n-Propylbenzene	ND		ug/kg	50	11.
1,2,3-Trichlorobenzene	ND		ug/kg	250	12.
1,2,4-Trichlorobenzene	ND		ug/kg	250	11.
1,3,5-Trimethylbenzene	ND		ug/kg	250	8.0
1,2,4-Trimethylbenzene	ND		ug/kg	250	9.3
1,4-Dioxane	ND		ug/kg	2000	720
p-Diethylbenzene	ND		ug/kg	200	200
p-Ethyltoluene	ND		ug/kg	200	12.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	7.8
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	20.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

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Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 13 Batch: WG1113252-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	129		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	105		70-130

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Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 28-29,31-32,34-35,37-38 Batch: WG1113442-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

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Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 28-29,31-32,34-35,37-38 Batch: WG1113442-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

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Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 28-29,31-32,34-35,37-38 Batch: WG1113442-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	96		70-130

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Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 11,14 Batch: WG1113612-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

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Analytical Date: 05/08/18 08:32
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 11,14 Batch: WG1113612-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/08/18 08:32
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 11,14 Batch: WG1113612-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/08/18 08:32
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 11,14 Batch: WG1113612-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 40 Batch: WG1111941-3 WG1111941-4								
Methylene chloride	99		100		70-130	1		20
1,1-Dichloroethane	110		110		70-130	0		20
Chloroform	93		94		70-130	1		20
Carbon tetrachloride	83		84		63-132	1		20
1,2-Dichloropropane	110		110		70-130	0		20
Dibromochloromethane	89		92		63-130	3		20
1,1,2-Trichloroethane	100		110		70-130	10		20
Tetrachloroethene	85		86		70-130	1		20
Chlorobenzene	95		96		75-130	1		20
Trichlorofluoromethane	87		89		62-150	2		20
1,2-Dichloroethane	96		98		70-130	2		20
1,1,1-Trichloroethane	88		89		67-130	1		20
Bromodichloromethane	90		93		67-130	3		20
trans-1,3-Dichloropropene	99		100		70-130	1		20
cis-1,3-Dichloropropene	94		95		70-130	1		20
1,1-Dichloropropene	96		98		70-130	2		20
Bromoform	91		93		54-136	2		20
1,1,2,2-Tetrachloroethane	110		110		67-130	0		20
Benzene	93		93		70-130	0		20
Toluene	97		99		70-130	2		20
Ethylbenzene	98		98		70-130	0		20
Chloromethane	120		120		64-130	0		20
Bromomethane	73		68		39-139	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815546

Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 40 Batch: WG1111941-3 WG1111941-4								
Vinyl chloride	100		110		55-140	10		20
Chloroethane	99		110		55-138	11		20
1,1-Dichloroethene	92		93		61-145	1		20
trans-1,2-Dichloroethene	94		95		70-130	1		20
Trichloroethene	87		88		70-130	1		20
1,2-Dichlorobenzene	94		94		70-130	0		20
1,3-Dichlorobenzene	96		94		70-130	2		20
1,4-Dichlorobenzene	96		95		70-130	1		20
Methyl tert butyl ether	90		94		63-130	4		20
p/m-Xylene	95		100		70-130	5		20
o-Xylene	100		95		70-130	5		20
cis-1,2-Dichloroethene	92		93		70-130	1		20
Dibromomethane	86		88		70-130	2		20
1,2,3-Trichloropropane	100		110		64-130	10		20
Acrylonitrile	110		110		70-130	0		20
Styrene	**140**	Q	**145**	Q	70-130	4		20
Dichlorodifluoromethane	92		94		36-147	2		20
Acetone	100		110		58-148	10		20
Carbon disulfide	99		100		51-130	1		20
2-Butanone	120		130		63-138	8		20
Vinyl acetate	100		100		70-130	0		20
4-Methyl-2-pentanone	110		110		59-130	0		20
2-Hexanone	99		110		57-130	11		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 40 Batch: WG1111941-3 WG1111941-4								
Bromochloromethane	85		86		70-130	1		20
2,2-Dichloropropane	92		91		63-133	1		20
1,2-Dibromoethane	91		93		70-130	2		20
1,3-Dichloropropane	100		110		70-130	10		20
1,1,1,2-Tetrachloroethane	91		93		64-130	2		20
Bromobenzene	93		91		70-130	2		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	99		98		70-130	1		20
o-Chlorotoluene	110		100		70-130	10		20
p-Chlorotoluene	100		100		70-130	0		20
1,2-Dibromo-3-chloropropane	91		89		41-144	2		20
Hexachlorobutadiene	66		64		63-130	3		20
Isopropylbenzene	100		100		70-130	0		20
p-Isopropyltoluene	100		98		70-130	2		20
Naphthalene	85		86		70-130	1		20
n-Propylbenzene	110		100		69-130	10		20
1,2,3-Trichlorobenzene	77		78		70-130	1		20
1,2,4-Trichlorobenzene	80		80		70-130	0		20
1,3,5-Trimethylbenzene	100		100		64-130	0		20
1,2,4-Trimethylbenzene	83		82		70-130	1		20
1,4-Dioxane	106		102		56-162	4		20
p-Diethylbenzene	96		94		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815546

Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 40 Batch: WG1111941-3 WG1111941-4								
p-Ethyltoluene	100		100		70-130	0		20
1,2,4,5-Tetramethylbenzene	90		88		70-130	2		20
Ethyl ether	98		100		59-134	2		20
trans-1,4-Dichloro-2-butene	100		100		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		100		70-130
Toluene-d8	104		104		70-130
4-Bromofluorobenzene	105		102		70-130
Dibromofluoromethane	93		93		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab	Associated sample(s): 01-04,06-08,10,16-17,19-20,22-23,25-26				Batch: WG1113245-3 WG1113245-4			
Methylene chloride	83		77		70-130	8		30
1,1-Dichloroethane	88		83		70-130	6		30
Chloroform	87		83		70-130	5		30
Carbon tetrachloride	89		86		70-130	3		30
1,2-Dichloropropane	89		85		70-130	5		30
Dibromochloromethane	104		104		70-130	0		30
1,1,2-Trichloroethane	106		105		70-130	1		30
Tetrachloroethene	98		92		70-130	6		30
Chlorobenzene	100		96		70-130	4		30
Trichlorofluoromethane	91		85		70-139	7		30
1,2-Dichloroethane	86		84		70-130	2		30
1,1,1-Trichloroethane	88		84		70-130	5		30
Bromodichloromethane	87		85		70-130	2		30
trans-1,3-Dichloropropene	88		88		70-130	0		30
cis-1,3-Dichloropropene	91		89		70-130	2		30
1,1-Dichloropropene	90		84		70-130	7		30
Bromoform	91		91		70-130	0		30
1,1,2,2-Tetrachloroethane	103		104		70-130	1		30
Benzene	87		82		70-130	6		30
Toluene	102		97		70-130	5		30
Ethylbenzene	102		97		70-130	5		30
Chloromethane	89		69		52-130	25		30
Bromomethane	96		83		57-147	15		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab	Associated sample(s):	01-04,06-08,10,16-17,19-20,22-23,25-26	Batch:	WG1113245-3	WG1113245-4			
Vinyl chloride	86		79		67-130	8		30
Chloroethane	94		83		50-151	12		30
1,1-Dichloroethene	102		78		65-135	27		30
trans-1,2-Dichloroethene	87		82		70-130	6		30
Trichloroethene	86		82		70-130	5		30
1,2-Dichlorobenzene	107		102		70-130	5		30
1,3-Dichlorobenzene	107		100		70-130	7		30
1,4-Dichlorobenzene	105		98		70-130	7		30
Methyl tert butyl ether	87		85		66-130	2		30
p/m-Xylene	100		94		70-130	6		30
o-Xylene	100		95		70-130	5		30
cis-1,2-Dichloroethene	88		84		70-130	5		30
Dibromomethane	90		89		70-130	1		30
Styrene	100		96		70-130	4		30
Dichlorodifluoromethane	83		76		30-146	9		30
Acetone	93		84		54-140	10		30
Carbon disulfide	100		74		59-130	30		30
2-Butanone	84		85		70-130	1		30
Vinyl acetate	74		73		70-130	1		30
4-Methyl-2-pentanone	85		87		70-130	2		30
1,2,3-Trichloropropane	103		103		68-130	0		30
2-Hexanone	85		87		70-130	2		30
Bromochloromethane	95		91		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815546

Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-04,06-08,10,16-17,19-20,22-23,25-26 Batch: WG1113245-3 WG1113245-4								
2,2-Dichloropropane	90		88		70-130	2		30
1,2-Dibromoethane	107		106		70-130	1		30
1,3-Dichloropropane	103		100		69-130	3		30
1,1,1,2-Tetrachloroethane	105		102		70-130	3		30
Bromobenzene	106		101		70-130	5		30
n-Butylbenzene	109		101		70-130	8		30
sec-Butylbenzene	109		102		70-130	7		30
tert-Butylbenzene	109		102		70-130	7		30
o-Chlorotoluene	91		84		70-130	8		30
p-Chlorotoluene	107		99		70-130	8		30
1,2-Dibromo-3-chloropropane	89		93		68-130	4		30
Hexachlorobutadiene	106		97		67-130	9		30
Isopropylbenzene	110		101		70-130	9		30
p-Isopropyltoluene	111		102		70-130	8		30
Naphthalene	104		105		70-130	1		30
Acrylonitrile	83		83		70-130	0		30
n-Propylbenzene	108		101		70-130	7		30
1,2,3-Trichlorobenzene	106		102		70-130	4		30
1,2,4-Trichlorobenzene	109		103		70-130	6		30
1,3,5-Trimethylbenzene	108		101		70-130	7		30
1,2,4-Trimethylbenzene	111		103		70-130	7		30
1,4-Dioxane	81		86		65-136	6		30
p-Diethylbenzene	111		102		70-130	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815546

Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-04,06-08,10,16-17,19-20,22-23,25-26 Batch: WG1113245-3 WG1113245-4								
p-Ethyltoluene	110		102		70-130	8		30
1,2,4,5-Tetramethylbenzene	111		104		70-130	7		30
Ethyl ether	90		88		67-130	2		30
trans-1,4-Dichloro-2-butene	92		94		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		99		70-130
Toluene-d8	109		109		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	95		96		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815546

Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 13 Batch: WG1113252-3 WG1113252-4								
Methylene chloride	102		94		70-130	8		30
1,1-Dichloroethane	106		106		70-130	0		30
Chloroform	96		104		70-130	8		30
Carbon tetrachloride	124		**132**	Q	70-130	6		30
1,2-Dichloropropane	85		91		70-130	7		30
Dibromochloromethane	102		105		70-130	3		30
1,1,2-Trichloroethane	87		92		70-130	6		30
Tetrachloroethene	96		96		70-130	0		30
Chlorobenzene	97		94		70-130	3		30
Trichlorofluoromethane	123		113		70-139	8		30
1,2-Dichloroethane	122		120		70-130	2		30
1,1,1-Trichloroethane	114		121		70-130	6		30
Bromodichloromethane	106		104		70-130	2		30
trans-1,3-Dichloropropene	98		101		70-130	3		30
cis-1,3-Dichloropropene	93		94		70-130	1		30
1,1-Dichloropropene	99		100		70-130	1		30
Bromoform	123		92		70-130	29		30
1,1,2,2-Tetrachloroethane	87		88		70-130	1		30
Benzene	95		90		70-130	5		30
Toluene	74		88		70-130	17		30
Ethylbenzene	99		98		70-130	1		30
Chloromethane	98		90		52-130	9		30
Bromomethane	104		91		57-147	13		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815546

Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 13 Batch: WG1113252-3 WG1113252-4								
Vinyl chloride	96		89		67-130	8		30
Chloroethane	85		77		50-151	10		30
1,1-Dichloroethene	104		99		65-135	5		30
trans-1,2-Dichloroethene	108		101		70-130	7		30
Trichloroethene	107		102		70-130	5		30
1,2-Dichlorobenzene	100		80		70-130	22		30
1,3-Dichlorobenzene	102		97		70-130	5		30
1,4-Dichlorobenzene	100		95		70-130	5		30
Methyl tert butyl ether	105		109		66-130	4		30
p/m-Xylene	97		96		70-130	1		30
o-Xylene	95		90		70-130	5		30
cis-1,2-Dichloroethene	95		92		70-130	3		30
Dibromomethane	102		100		70-130	2		30
Styrene	95		91		70-130	4		30
Dichlorodifluoromethane	103		97		30-146	6		30
Acetone	112		108		54-140	4		30
Carbon disulfide	97		92		59-130	5		30
2-Butanone	89		92		70-130	3		30
Vinyl acetate	95		98		70-130	3		30
4-Methyl-2-pentanone	88		92		70-130	4		30
1,2,3-Trichloropropane	97		94		68-130	3		30
2-Hexanone	86		83		70-130	4		30
Bromochloromethane	107		95		70-130	12		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815546

Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 13 Batch: WG1113252-3 WG1113252-4								
2,2-Dichloropropane	121		117		70-130	3		30
1,2-Dibromoethane	99		99		70-130	0		30
1,3-Dichloropropane	92		97		69-130	5		30
1,1,1,2-Tetrachloroethane	110		106		70-130	4		30
Bromobenzene	115		92		70-130	22		30
n-Butylbenzene	106		84		70-130	23		30
sec-Butylbenzene	103		99		70-130	4		30
tert-Butylbenzene	107		99		70-130	8		30
o-Chlorotoluene	103		100		70-130	3		30
p-Chlorotoluene	102		98		70-130	4		30
1,2-Dibromo-3-chloropropane	88		74		68-130	17		30
Hexachlorobutadiene	102		81		67-130	23		30
Isopropylbenzene	124		95		70-130	26		30
p-Isopropyltoluene	107		100		70-130	7		30
Naphthalene	93		80		70-130	15		30
Acrylonitrile	95		110		70-130	15		30
n-Propylbenzene	113		96		70-130	16		30
1,2,3-Trichlorobenzene	100		85		70-130	16		30
1,2,4-Trichlorobenzene	97		80		70-130	19		30
1,3,5-Trimethylbenzene	106		100		70-130	6		30
1,2,4-Trimethylbenzene	106		99		70-130	7		30
1,4-Dioxane	90		86		65-136	5		30
p-Diethylbenzene	102		85		70-130	18		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815546

Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 13 Batch: WG1113252-3 WG1113252-4								
p-Ethyltoluene	100		93		70-130	7		30
1,2,4,5-Tetramethylbenzene	101		83		70-130	20		30
Ethyl ether	97		92		67-130	5		30
trans-1,4-Dichloro-2-butene	121		122		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	116		130		70-130
Toluene-d8	96		104		70-130
4-Bromofluorobenzene	120		102		70-130
Dibromofluoromethane	93		108		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815546

Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 28-29,31-32,34-35,37-38 Batch: WG1113442-3 WG1113442-4								
Methylene chloride	78		78		70-130	0		30
1,1-Dichloroethane	88		86		70-130	2		30
Chloroform	85		84		70-130	1		30
Carbon tetrachloride	97		94		70-130	3		30
1,2-Dichloropropane	86		85		70-130	1		30
Dibromochloromethane	102		104		70-130	2		30
1,1,2-Trichloroethane	101		102		70-130	1		30
Tetrachloroethene	103		98		70-130	5		30
Chlorobenzene	100		98		70-130	2		30
Trichlorofluoromethane	100		95		70-139	5		30
1,2-Dichloroethane	83		83		70-130	0		30
1,1,1-Trichloroethane	93		89		70-130	4		30
Bromodichloromethane	85		85		70-130	0		30
trans-1,3-Dichloropropene	87		89		70-130	2		30
cis-1,3-Dichloropropene	89		90		70-130	1		30
1,1-Dichloropropene	95		88		70-130	8		30
Bromoform	89		92		70-130	3		30
1,1,2,2-Tetrachloroethane	99		102		70-130	3		30
Benzene	87		84		70-130	4		30
Toluene	102		99		70-130	3		30
Ethylbenzene	104		100		70-130	4		30
Chloromethane	75		90		52-130	18		30
Bromomethane	85		89		57-147	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 28-29,31-32,34-35,37-38 Batch: WG1113442-3 WG1113442-4								
Vinyl chloride	92		87		67-130	6		30
Chloroethane	102		99		50-151	3		30
1,1-Dichloroethene	109		85		65-135	25		30
trans-1,2-Dichloroethene	90		86		70-130	5		30
Trichloroethene	88		86		70-130	2		30
1,2-Dichlorobenzene	103		103		70-130	0		30
1,3-Dichlorobenzene	105		104		70-130	1		30
1,4-Dichlorobenzene	102		100		70-130	2		30
Methyl tert butyl ether	81		83		66-130	2		30
p/m-Xylene	102		98		70-130	4		30
o-Xylene	100		97		70-130	3		30
cis-1,2-Dichloroethene	87		85		70-130	2		30
Dibromomethane	86		87		70-130	1		30
Styrene	98		97		70-130	1		30
Dichlorodifluoromethane	92		85		30-146	8		30
Acetone	88		86		54-140	2		30
Carbon disulfide	107		80		59-130	29		30
2-Butanone	77		84		70-130	9		30
Vinyl acetate	71		72		70-130	1		30
4-Methyl-2-pentanone	80		83		70-130	4		30
1,2,3-Trichloropropane	99		101		68-130	2		30
2-Hexanone	80		81		70-130	1		30
Bromochloromethane	92		91		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815546

Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 28-29,31-32,34-35,37-38 Batch: WG1113442-3 WG1113442-4								
2,2-Dichloropropane	97		94		70-130	3		30
1,2-Dibromoethane	102		102		70-130	0		30
1,3-Dichloropropane	98		100		69-130	2		30
1,1,1,2-Tetrachloroethane	106		105		70-130	1		30
Bromobenzene	103		103		70-130	0		30
n-Butylbenzene	112		108		70-130	4		30
sec-Butylbenzene	114		109		70-130	4		30
tert-Butylbenzene	112		107		70-130	5		30
o-Chlorotoluene	91		88		70-130	3		30
p-Chlorotoluene	105		103		70-130	2		30
1,2-Dibromo-3-chloropropane	88		92		68-130	4		30
Hexachlorobutadiene	108		106		67-130	2		30
Isopropylbenzene	112		107		70-130	5		30
p-Isopropyltoluene	114		110		70-130	4		30
Naphthalene	98		103		70-130	5		30
Acrylonitrile	78		79		70-130	1		30
n-Propylbenzene	111		107		70-130	4		30
1,2,3-Trichlorobenzene	102		103		70-130	1		30
1,2,4-Trichlorobenzene	104		105		70-130	1		30
1,3,5-Trimethylbenzene	110		106		70-130	4		30
1,2,4-Trimethylbenzene	111		108		70-130	3		30
1,4-Dioxane	93		85		65-136	9		30
p-Diethylbenzene	113		109		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 28-29,31-32,34-35,37-38 Batch: WG1113442-3 WG1113442-4								
p-Ethyltoluene	111		106		70-130	5		30
1,2,4,5-Tetramethylbenzene	109		108		70-130	1		30
Ethyl ether	87		87		67-130	0		30
trans-1,4-Dichloro-2-butene	90		89		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		99		70-130
Toluene-d8	109		109		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	94		95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815546

Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 11,14 Batch: WG1113612-3 WG1113612-4								
Methylene chloride	90		87		70-130	3		30
1,1-Dichloroethane	100		98		70-130	2		30
Chloroform	99		97		70-130	2		30
Carbon tetrachloride	110		108		70-130	2		30
1,2-Dichloropropane	99		98		70-130	1		30
Dibromochloromethane	118		118		70-130	0		30
1,1,2-Trichloroethane	118		116		70-130	2		30
Tetrachloroethene	116		113		70-130	3		30
Chlorobenzene	114		112		70-130	2		30
Trichlorofluoromethane	113		108		70-139	5		30
1,2-Dichloroethane	97		94		70-130	3		30
1,1,1-Trichloroethane	106		104		70-130	2		30
Bromodichloromethane	99		99		70-130	0		30
trans-1,3-Dichloropropene	99		100		70-130	1		30
cis-1,3-Dichloropropene	105		103		70-130	2		30
1,1-Dichloropropene	106		104		70-130	2		30
Bromoform	102		102		70-130	0		30
1,1,2,2-Tetrachloroethane	114		113		70-130	1		30
Benzene	99		97		70-130	2		30
Toluene	117		114		70-130	3		30
Ethylbenzene	118		116		70-130	2		30
Chloromethane	100		79		52-130	23		30
Bromomethane	98		94		57-147	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815546

Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 11,14 Batch: WG1113612-3 WG1113612-4								
Vinyl chloride	101		96		67-130	5		30
Chloroethane	117		112		50-151	4		30
1,1-Dichloroethene	102		101		65-135	1		30
trans-1,2-Dichloroethene	102		100		70-130	2		30
Trichloroethene	102		98		70-130	4		30
1,2-Dichlorobenzene	117		115		70-130	2		30
1,3-Dichlorobenzene	119		118		70-130	1		30
1,4-Dichlorobenzene	116		114		70-130	2		30
Methyl tert butyl ether	95		95		66-130	0		30
p/m-Xylene	116		113		70-130	3		30
o-Xylene	114		112		70-130	2		30
cis-1,2-Dichloroethene	100		98		70-130	2		30
Dibromomethane	102		99		70-130	3		30
Styrene	113		112		70-130	1		30
Dichlorodifluoromethane	95		91		30-146	4		30
Acetone	102		89		54-140	14		30
Carbon disulfide	94		91		59-130	3		30
2-Butanone	93		88		70-130	6		30
Vinyl acetate	83		82		70-130	1		30
4-Methyl-2-pentanone	94		93		70-130	1		30
1,2,3-Trichloropropane	113		109		68-130	4		30
2-Hexanone	91		92		70-130	1		30
Bromochloromethane	106		103		70-130	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 11,14 Batch: WG1113612-3 WG1113612-4								
2,2-Dichloropropane	113		111		70-130	2		30
1,2-Dibromoethane	119		118		70-130	1		30
1,3-Dichloropropane	114		112		69-130	2		30
1,1,1,2-Tetrachloroethane	122		121		70-130	1		30
Bromobenzene	119		116		70-130	3		30
n-Butylbenzene	126		124		70-130	2		30
sec-Butylbenzene	128		123		70-130	4		30
tert-Butylbenzene	126		124		70-130	2		30
o-Chlorotoluene	103		101		70-130	2		30
p-Chlorotoluene	119		117		70-130	2		30
1,2-Dibromo-3-chloropropane	100		101		68-130	1		30
Hexachlorobutadiene	120		118		67-130	2		30
Isopropylbenzene	125		123		70-130	2		30
p-Isopropyltoluene	129		125		70-130	3		30
Naphthalene	114		113		70-130	1		30
Acrylonitrile	88		86		70-130	2		30
n-Propylbenzene	125		122		70-130	2		30
1,2,3-Trichlorobenzene	115		115		70-130	0		30
1,2,4-Trichlorobenzene	119		117		70-130	2		30
1,3,5-Trimethylbenzene	124		121		70-130	2		30
1,2,4-Trimethylbenzene	126		124		70-130	2		30
1,4-Dioxane	93		91		65-136	2		30
p-Diethylbenzene	128		125		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815546

Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 11,14 Batch: WG1113612-3 WG1113612-4								
p-Ethyltoluene	126		123		70-130	2		30
1,2,4,5-Tetramethylbenzene	125		123		70-130	2		30
Ethyl ether	100		98		67-130	2		30
trans-1,4-Dichloro-2-butene	103		96		70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		98		70-130
Toluene-d8	109		109		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	95		94		70-130

SEMIVOLATILES

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-05
Client ID: TP-1A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 07:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/04/18 18:05
Analyst: RC
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 06:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	28	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: FORMER BICC **Lab Number:** L1815546

Project Number: 056970006 **Report Date:** 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-05 Date Collected: 05/01/18 07:50

Client ID: TP-1A_COMP Date Received: 05/01/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	25.	1
Pyrene	28	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	69.	1
4-Nitrophenol	ND		ug/kg	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-05
Client ID: TP-1A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 07:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	89		30-120
2,4,6-Tribromophenol	67		10-136
4-Terphenyl-d14	94		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-09
Client ID: TP-1B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 08:25
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/04/18 18:31
Analyst: RC
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 06:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	170		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: FORMER BICC **Lab Number:** L1815546

Project Number: 056970006 **Report Date:** 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-09 Date Collected: 05/01/18 08:25

Client ID: TP-1B_COMP Date Received: 05/01/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	82	J	ug/kg	110	21.	1
Benzo(a)pyrene	68	J	ug/kg	150	46.	1
Benzo(b)fluoranthene	100	J	ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	80	J	ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	45	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	110		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	47	J	ug/kg	150	26.	1
Pyrene	150		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	910	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-09
Client ID: TP-1B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 08:25
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	90		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-12
Client ID: TP-3_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 09:00
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/04/18 20:16
Analyst: RC
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 06:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	26	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	540		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	47.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: FORMER BICC **Lab Number:** L1815546

Project Number: 056970006 **Report Date:** 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-12 Date Collected: 05/01/18 09:00

Client ID: TP-3_COMP Date Received: 05/01/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	290		ug/kg	110	21.	1
Benzo(a)pyrene	240		ug/kg	150	45.	1
Benzo(b)fluoranthene	330		ug/kg	110	31.	1
Benzo(k)fluoranthene	110		ug/kg	110	30.	1
Chrysene	310		ug/kg	110	19.	1
Acenaphthylene	86	J	ug/kg	150	29.	1
Anthracene	98	J	ug/kg	110	36.	1
Benzo(ghi)perylene	160		ug/kg	150	22.	1
Fluorene	37	J	ug/kg	180	18.	1
Phenanthrene	360		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	39	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	170		ug/kg	150	26.	1
Pyrene	510		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	77.	1
Dibenzofuran	26	J	ug/kg	180	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-12
Client ID: TP-3_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 09:00
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	36.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	31	J	ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	93		10-120
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	92		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	91		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-15
Client ID: TP-4_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 09:45
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/04/18 20:42
Analyst: RC
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 06:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	260		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	50	J	ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: FORMER BICC **Lab Number:** L1815546

Project Number: 056970006 **Report Date:** 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-15 Date Collected: 05/01/18 09:45

Client ID: TP-4_COMP Date Received: 05/01/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	120		ug/kg	110	21.	1
Benzo(a)pyrene	120	J	ug/kg	150	46.	1
Benzo(b)fluoranthene	160		ug/kg	110	32.	1
Benzo(k)fluoranthene	54	J	ug/kg	110	30.	1
Chrysene	120		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	88	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	170		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	22	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	86	J	ug/kg	150	26.	1
Pyrene	230		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	900	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-15
Client ID: TP-4_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 09:45
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	22	J	ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	93		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	93		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-18
Client ID: TP-5A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 10:45
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/04/18 21:08
Analyst: RC
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 06:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	38	J	ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	440		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	47	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	49	J	ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: FORMER BICC **Lab Number:** L1815546

Project Number: 056970006 **Report Date:** 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-18 Date Collected: 05/01/18 10:45

Client ID: TP-5A_COMP Date Received: 05/01/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	240		ug/kg	110	20.	1
Benzo(a)pyrene	230		ug/kg	140	43.	1
Benzo(b)fluoranthene	330		ug/kg	110	30.	1
Benzo(k)fluoranthene	97	J	ug/kg	110	28.	1
Chrysene	230		ug/kg	110	18.	1
Acenaphthylene	34	J	ug/kg	140	28.	1
Anthracene	77	J	ug/kg	110	35.	1
Benzo(ghi)perylene	170		ug/kg	140	21.	1
Fluorene	30	J	ug/kg	180	17.	1
Phenanthrene	260		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	39	J	ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	160		ug/kg	140	25.	1
Pyrene	420		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	20	J	ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	850	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-18
Client ID: TP-5A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 10:45
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	39	J	ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	93		10-120
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	93		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-21
Client ID: TP-5B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 10:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/04/18 21:34
Analyst: RC
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 06:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	24	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	670		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	30	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: FORMER BICC **Lab Number:** L1815546

Project Number: 056970006 **Report Date:** 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-21 Date Collected: 05/01/18 10:50

Client ID: TP-5B_COMP Date Received: 05/01/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	450		ug/kg	110	21.	1
Benzo(a)pyrene	470		ug/kg	150	45.	1
Benzo(b)fluoranthene	560		ug/kg	110	31.	1
Benzo(k)fluoranthene	220		ug/kg	110	30.	1
Chrysene	430		ug/kg	110	19.	1
Acenaphthylene	200		ug/kg	150	28.	1
Anthracene	140		ug/kg	110	36.	1
Benzo(ghi)perylene	300		ug/kg	150	22.	1
Fluorene	41	J	ug/kg	180	18.	1
Phenanthrene	370		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	72	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	310		ug/kg	150	26.	1
Pyrene	640		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	18	J	ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-21
Client ID: TP-5B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 10:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	49	J	ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	89		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	88		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	86		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-24
Client ID: TP-6_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 11:25
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/04/18 22:00
Analyst: RC
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 06:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	58	J	ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	690		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	33	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: FORMER BICC **Lab Number:** L1815546

Project Number: 056970006 **Report Date:** 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-24 Date Collected: 05/01/18 11:25

Client ID: TP-6_COMP Date Received: 05/01/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	290		ug/kg	110	21.	1
Benzo(a)pyrene	280		ug/kg	150	46.	1
Benzo(b)fluoranthene	350		ug/kg	110	32.	1
Benzo(k)fluoranthene	110		ug/kg	110	30.	1
Chrysene	300		ug/kg	110	20.	1
Acenaphthylene	34	J	ug/kg	150	29.	1
Anthracene	120		ug/kg	110	37.	1
Benzo(ghi)perylene	180		ug/kg	150	22.	1
Fluorene	53	J	ug/kg	190	18.	1
Phenanthrene	540		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	38	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	180		ug/kg	150	26.	1
Pyrene	640		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	40	J	ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	900	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-24
Client ID: TP-6_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 11:25
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	50	J	ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	93		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	92		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	94		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-27
Client ID: TP-8_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 11:55
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/04/18 19:24
Analyst: RC
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 06:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	98	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: FORMER BICC **Lab Number:** L1815546

Project Number: 056970006 **Report Date:** 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-27 Date Collected: 05/01/18 11:55

Client ID: TP-8_COMP Date Received: 05/01/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	47	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	54	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	45	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	28	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	72	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	28	J	ug/kg	150	26.	1
Pyrene	88	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-27
Client ID: TP-8_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 11:55
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	95		10-120
Nitrobenzene-d5	102		23-120
2-Fluorobiphenyl	94		30-120
2,4,6-Tribromophenol	89		10-136
4-Terphenyl-d14	94		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-30
Client ID: TP-9A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 13:10
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/04/18 19:50
Analyst: RC
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 06:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: FORMER BICC **Lab Number:** L1815546

Project Number: 056970006 **Report Date:** 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-30 Date Collected: 05/01/18 13:10

Client ID: TP-9A_COMP Date Received: 05/01/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-30
Client ID: TP-9A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 13:10
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	93		10-120
Nitrobenzene-d5	102		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	90		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-33
Client ID: TP-9B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 13:15
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/04/18 18:58
Analyst: RC
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 06:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	19.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	42	J	ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	49.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1

Project Name: FORMER BICC **Lab Number:** L1815546

Project Number: 056970006 **Report Date:** 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-33 Date Collected: 05/01/18 13:15

Client ID: TP-9B_COMP Date Received: 05/01/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	22	J	ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	20	J	ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	24	J	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	27.	1
Pyrene	36	J	ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	ND		ug/kg	200	18.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	270	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-33
Client ID: TP-9B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 13:15
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	93		10-120
Nitrobenzene-d5	102		23-120
2-Fluorobiphenyl	95		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	96		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-36
Client ID: TP-10A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 14:00
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/04/18 17:13
Analyst: RC
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 06:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	60	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: FORMER BICC **Lab Number:** L1815546

Project Number: 056970006 **Report Date:** 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-36 Date Collected: 05/01/18 14:00

Client ID: TP-10A_COMP Date Received: 05/01/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	32	J	ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	36	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	31	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	43	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	25.	1
Pyrene	55	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	69.	1
4-Nitrophenol	ND		ug/kg	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-36
Client ID: TP-10A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 14:00
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	94		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-39
Client ID: TP-10B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 14:05
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/04/18 17:39
Analyst: RC
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 06:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
1,2-Dichlorobenzene	ND		ug/kg	190	33.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	51	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	64.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	35.	1
Di-n-octylphthalate	ND		ug/kg	190	63.	1

Project Name: FORMER BICC **Lab Number:** L1815546

Project Number: 056970006 **Report Date:** 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-39 Date Collected: 05/01/18 14:05

Client ID: TP-10B_COMP Date Received: 05/01/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	28	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	32	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	23	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	40	J	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	48	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	77.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	19.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-39
Client ID: TP-10B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 14:05
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	ND		ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	94		10-120
Nitrobenzene-d5	101		23-120
2-Fluorobiphenyl	92		30-120
2,4,6-Tribromophenol	89		10-136
4-Terphenyl-d14	94		18-120

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/03/18 23:06
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 05/02/18 06:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 Batch: WG1111684-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/03/18 23:06
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 05/02/18 06:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 Batch: WG1111684-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	62.

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/03/18 23:06
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 05/02/18 06:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 Batch: WG1111684-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	88		25-120
Phenol-d6	89		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	99		10-136
4-Terphenyl-d14	101		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 Batch: WG1111684-2 WG1111684-3								
Acenaphthene	83		84		31-137	1		50
1,2,4-Trichlorobenzene	81		79		38-107	3		50
Hexachlorobenzene	94		94		40-140	0		50
Bis(2-chloroethyl)ether	88		85		40-140	3		50
2-Chloronaphthalene	84		84		40-140	0		50
1,2-Dichlorobenzene	80		78		40-140	3		50
1,3-Dichlorobenzene	78		75		40-140	4		50
1,4-Dichlorobenzene	78		75		28-104	4		50
3,3'-Dichlorobenzidine	74		77		40-140	4		50
2,4-Dinitrotoluene	111		116		40-132	4		50
2,6-Dinitrotoluene	109		110		40-140	1		50
Fluoranthene	85		88		40-140	3		50
4-Chlorophenyl phenyl ether	87		88		40-140	1		50
4-Bromophenyl phenyl ether	94		95		40-140	1		50
Bis(2-chloroisopropyl)ether	92		91		40-140	1		50
Bis(2-chloroethoxy)methane	88		86		40-117	2		50
Hexachlorobutadiene	81		80		40-140	1		50
Hexachlorocyclopentadiene	73		74		40-140	1		50
Hexachloroethane	83		80		40-140	4		50
Isophorone	92		89		40-140	3		50
Naphthalene	81		81		40-140	0		50
Nitrobenzene	100		99		40-140	1		50
NDPA/DPA	85		87		36-157	2		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 Batch: WG1111684-2 WG1111684-3								
n-Nitrosodi-n-propylamine	93		92		32-121	1		50
Bis(2-ethylhexyl)phthalate	96		97		40-140	1		50
Butyl benzyl phthalate	100		103		40-140	3		50
Di-n-butylphthalate	93		95		40-140	2		50
Di-n-octylphthalate	98		99		40-140	1		50
Diethyl phthalate	90		91		40-140	1		50
Dimethyl phthalate	85		88		40-140	3		50
Benzo(a)anthracene	85		85		40-140	0		50
Benzo(a)pyrene	91		91		40-140	0		50
Benzo(b)fluoranthene	89		91		40-140	2		50
Benzo(k)fluoranthene	92		93		40-140	1		50
Chrysene	84		86		40-140	2		50
Acenaphthylene	88		87		40-140	1		50
Anthracene	87		88		40-140	1		50
Benzo(ghi)perylene	88		88		40-140	0		50
Fluorene	86		85		40-140	1		50
Phenanthrene	85		87		40-140	2		50
Dibenzo(a,h)anthracene	90		88		40-140	2		50
Indeno(1,2,3-cd)pyrene	89		89		40-140	0		50
Pyrene	85		88		35-142	3		50
Biphenyl	86		84		54-104	2		50
4-Chloroaniline	47		49		40-140	4		50
2-Nitroaniline	111		113		47-134	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815546

Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 Batch: WG1111684-2 WG1111684-3								
3-Nitroaniline	86		90		26-129	5		50
4-Nitroaniline	105		101		41-125	4		50
Dibenzofuran	84		85		40-140	1		50
2-Methylnaphthalene	83		83		40-140	0		50
1,2,4,5-Tetrachlorobenzene	85		85		40-117	0		50
Acetophenone	94		92		14-144	2		50
2,4,6-Trichlorophenol	92		91		30-130	1		50
p-Chloro-m-cresol	94		98		26-103	4		50
2-Chlorophenol	91		89		25-102	2		50
2,4-Dichlorophenol	90		88		30-130	2		50
2,4-Dimethylphenol	92		91		30-130	1		50
2-Nitrophenol	116		114		30-130	2		50
4-Nitrophenol	**125**	Q	**130**	Q	11-114	4		50
2,4-Dinitrophenol	73		79		4-130	8		50
4,6-Dinitro-o-cresol	109		114		10-130	4		50
Pentachlorophenol	80		85		17-109	6		50
Phenol	**92**	Q	**91**	Q	26-90	1		50
2-Methylphenol	93		92		30-130.	1		50
3-Methylphenol/4-Methylphenol	94		92		30-130	2		50
2,4,5-Trichlorophenol	94		95		30-130	1		50
Benzoic Acid	10		16		10-110	46		50
Benzyl Alcohol	101		98		40-140	3		50
Carbazole	88		90		54-128	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815546

Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 Batch: WG1111684-2 WG1111684-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	90		88		25-120
Phenol-d6	92		91		10-120
Nitrobenzene-d5	102		99		23-120
2-Fluorobiphenyl	84		86		30-120
2,4,6-Tribromophenol	104		106		10-136
4-Terphenyl-d14	97		99		18-120

PCBS

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-05
Client ID: TP-1A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 07:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 16:59
Analyst: HT
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 12:15
Cleanup Method: EPA 3665A
Cleanup Date: 05/02/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.8	4.18	1	A
Aroclor 1221	ND		ug/kg	36.8	5.61	1	A
Aroclor 1232	ND		ug/kg	36.8	3.62	1	A
Aroclor 1242	ND		ug/kg	36.8	4.51	1	A
Aroclor 1248	ND		ug/kg	36.8	4.13	1	A
Aroclor 1254	ND		ug/kg	36.8	3.01	1	A
Aroclor 1260	ND		ug/kg	36.8	3.85	1	A
Aroclor 1262	ND		ug/kg	36.8	3.03	1	A
Aroclor 1268	ND		ug/kg	36.8	2.61	1	A
PCBs, Total	ND		ug/kg	36.8	2.61	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	53		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-09
Client ID: TP-1B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 08:25
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 17:12
Analyst: HT
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 12:15
Cleanup Method: EPA 3665A
Cleanup Date: 05/02/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.3	4.23	1	A
Aroclor 1221	ND		ug/kg	37.3	5.67	1	A
Aroclor 1232	ND		ug/kg	37.3	3.67	1	A
Aroclor 1242	ND		ug/kg	37.3	4.56	1	A
Aroclor 1248	ND		ug/kg	37.3	4.18	1	A
Aroclor 1254	ND		ug/kg	37.3	3.04	1	A
Aroclor 1260	ND		ug/kg	37.3	3.89	1	A
Aroclor 1262	ND		ug/kg	37.3	3.06	1	A
Aroclor 1268	ND		ug/kg	37.3	2.64	1	A
PCBs, Total	ND		ug/kg	37.3	2.64	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	70		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-12
Client ID: TP-3_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 09:00
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 17:26
Analyst: HT
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 12:15
Cleanup Method: EPA 3665A
Cleanup Date: 05/02/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.5	4.26	1	A
Aroclor 1221	ND		ug/kg	37.5	5.71	1	A
Aroclor 1232	ND		ug/kg	37.5	3.69	1	A
Aroclor 1242	ND		ug/kg	37.5	4.60	1	A
Aroclor 1248	ND		ug/kg	37.5	4.21	1	A
Aroclor 1254	ND		ug/kg	37.5	3.06	1	A
Aroclor 1260	ND		ug/kg	37.5	3.92	1	A
Aroclor 1262	ND		ug/kg	37.5	3.09	1	A
Aroclor 1268	ND		ug/kg	37.5	2.66	1	A
PCBs, Total	ND		ug/kg	37.5	2.66	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	90		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-15
Client ID: TP-4_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 09:45
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 17:40
Analyst: HT
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 12:15
Cleanup Method: EPA 3665A
Cleanup Date: 05/02/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.6	4.26	1	A
Aroclor 1221	ND		ug/kg	37.6	5.72	1	A
Aroclor 1232	ND		ug/kg	37.6	3.70	1	A
Aroclor 1242	16.0	J	ug/kg	37.6	4.60	1	B
Aroclor 1248	ND		ug/kg	37.6	4.22	1	A
Aroclor 1254	10.0	J	ug/kg	37.6	3.07	1	B
Aroclor 1260	ND		ug/kg	37.6	3.92	1	A
Aroclor 1262	ND		ug/kg	37.6	3.09	1	A
Aroclor 1268	ND		ug/kg	37.6	2.66	1	A
PCBs, Total	26.0	J	ug/kg	37.6	2.66	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-18
Client ID: TP-5A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 10:45
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 17:53
Analyst: HT
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 12:15
Cleanup Method: EPA 3665A
Cleanup Date: 05/02/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.6	4.04	1	A
Aroclor 1221	ND		ug/kg	35.6	5.42	1	A
Aroclor 1232	ND		ug/kg	35.6	3.50	1	A
Aroclor 1242	349		ug/kg	35.6	4.36	1	B
Aroclor 1248	ND		ug/kg	35.6	3.99	1	A
Aroclor 1254	53.0		ug/kg	35.6	2.90	1	A
Aroclor 1260	10.6	J	ug/kg	35.6	3.72	1	A
Aroclor 1262	ND		ug/kg	35.6	2.92	1	A
Aroclor 1268	ND		ug/kg	35.6	2.52	1	A
PCBs, Total	413	J	ug/kg	35.6	2.52	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-21
Client ID: TP-5B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 10:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 18:07
Analyst: HT
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 12:15
Cleanup Method: EPA 3665A
Cleanup Date: 05/02/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.7	4.16	1	A
Aroclor 1221	ND		ug/kg	36.7	5.59	1	A
Aroclor 1232	ND		ug/kg	36.7	3.61	1	A
Aroclor 1242	43.1		ug/kg	36.7	4.50	1	B
Aroclor 1248	ND		ug/kg	36.7	4.12	1	A
Aroclor 1254	10.3	J	ug/kg	36.7	3.00	1	B
Aroclor 1260	ND		ug/kg	36.7	3.83	1	B
Aroclor 1262	ND		ug/kg	36.7	3.02	1	A
Aroclor 1268	ND		ug/kg	36.7	2.60	1	A
PCBs, Total	53.4	J	ug/kg	36.7	2.60	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-24
Client ID: TP-6_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 11:25
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 18:21
Analyst: HT
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 12:15
Cleanup Method: EPA 3665A
Cleanup Date: 05/02/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.7	4.17	1	A
Aroclor 1221	ND		ug/kg	36.7	5.59	1	A
Aroclor 1232	ND		ug/kg	36.7	3.62	1	A
Aroclor 1242	ND		ug/kg	36.7	4.50	1	A
Aroclor 1248	ND		ug/kg	36.7	4.12	1	A
Aroclor 1254	5.85	J	ug/kg	36.7	3.00	1	B
Aroclor 1260	ND		ug/kg	36.7	3.84	1	A
Aroclor 1262	ND		ug/kg	36.7	3.02	1	A
Aroclor 1268	ND		ug/kg	36.7	2.60	1	A
PCBs, Total	5.85	J	ug/kg	36.7	2.60	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-27
Client ID: TP-8_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 11:55
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 18:34
Analyst: HT
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 12:15
Cleanup Method: EPA 3665A
Cleanup Date: 05/02/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.7	4.17	1	A
Aroclor 1221	ND		ug/kg	36.7	5.59	1	A
Aroclor 1232	ND		ug/kg	36.7	3.62	1	A
Aroclor 1242	ND		ug/kg	36.7	4.50	1	A
Aroclor 1248	ND		ug/kg	36.7	4.12	1	A
Aroclor 1254	3.01	J	ug/kg	36.7	3.00	1	A
Aroclor 1260	ND		ug/kg	36.7	3.84	1	A
Aroclor 1262	ND		ug/kg	36.7	3.02	1	A
Aroclor 1268	ND		ug/kg	36.7	2.60	1	A
PCBs, Total	3.01	J	ug/kg	36.7	2.60	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-30
Client ID: TP-9A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 13:10
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 18:48
Analyst: HT
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 12:15
Cleanup Method: EPA 3665A
Cleanup Date: 05/02/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.9	4.07	1	A
Aroclor 1221	ND		ug/kg	35.9	5.46	1	A
Aroclor 1232	ND		ug/kg	35.9	3.53	1	A
Aroclor 1242	ND		ug/kg	35.9	4.39	1	A
Aroclor 1248	ND		ug/kg	35.9	4.02	1	A
Aroclor 1254	ND		ug/kg	35.9	2.93	1	A
Aroclor 1260	ND		ug/kg	35.9	3.74	1	A
Aroclor 1262	ND		ug/kg	35.9	2.95	1	A
Aroclor 1268	ND		ug/kg	35.9	2.54	1	A
PCBs, Total	ND		ug/kg	35.9	2.54	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	92		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-33
Client ID: TP-9B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 13:15
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 19:02
Analyst: HT
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 12:15
Cleanup Method: EPA 3665A
Cleanup Date: 05/02/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.2	4.33	1	A
Aroclor 1221	ND		ug/kg	38.2	5.81	1	A
Aroclor 1232	ND		ug/kg	38.2	3.75	1	A
Aroclor 1242	ND		ug/kg	38.2	4.67	1	A
Aroclor 1248	ND		ug/kg	38.2	4.28	1	A
Aroclor 1254	ND		ug/kg	38.2	3.11	1	B
Aroclor 1260	ND		ug/kg	38.2	3.98	1	A
Aroclor 1262	ND		ug/kg	38.2	3.14	1	A
Aroclor 1268	ND		ug/kg	38.2	2.70	1	A
PCBs, Total	ND		ug/kg	38.2	2.70	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-36
Client ID: TP-10A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 14:00
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 19:15
Analyst: HT
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 12:15
Cleanup Method: EPA 3665A
Cleanup Date: 05/02/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.0	4.08	1	A
Aroclor 1221	ND		ug/kg	36.0	5.48	1	A
Aroclor 1232	ND		ug/kg	36.0	3.54	1	A
Aroclor 1242	ND		ug/kg	36.0	4.40	1	A
Aroclor 1248	ND		ug/kg	36.0	4.04	1	A
Aroclor 1254	ND		ug/kg	36.0	2.94	1	A
Aroclor 1260	ND		ug/kg	36.0	3.76	1	A
Aroclor 1262	ND		ug/kg	36.0	2.96	1	A
Aroclor 1268	ND		ug/kg	36.0	2.55	1	A
PCBs, Total	ND		ug/kg	36.0	2.55	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	98		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-39
Client ID: TP-10B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 14:05
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 19:29
Analyst: HT
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 12:15
Cleanup Method: EPA 3665A
Cleanup Date: 05/02/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.6	4.26	1	A
Aroclor 1221	ND		ug/kg	37.6	5.72	1	A
Aroclor 1232	ND		ug/kg	37.6	3.70	1	A
Aroclor 1242	ND		ug/kg	37.6	4.60	1	A
Aroclor 1248	ND		ug/kg	37.6	4.22	1	A
Aroclor 1254	ND		ug/kg	37.6	3.07	1	B
Aroclor 1260	ND		ug/kg	37.6	3.93	1	A
Aroclor 1262	ND		ug/kg	37.6	3.09	1	A
Aroclor 1268	ND		ug/kg	37.6	2.66	1	A
PCBs, Total	ND		ug/kg	37.6	2.66	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	53		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/04/18 20:51
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 05/02/18 12:15
Cleanup Method: EPA 3665A
Cleanup Date: 05/02/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 Batch: WG1111835-1						
Aroclor 1016	ND		ug/kg	31.8	3.61	A
Aroclor 1221	ND		ug/kg	31.8	4.84	A
Aroclor 1232	ND		ug/kg	31.8	3.13	A
Aroclor 1242	ND		ug/kg	31.8	3.89	A
Aroclor 1248	ND		ug/kg	31.8	3.57	A
Aroclor 1254	ND		ug/kg	31.8	2.60	A
Aroclor 1260	ND		ug/kg	31.8	3.32	A
Aroclor 1262	ND		ug/kg	31.8	2.61	A
Aroclor 1268	ND		ug/kg	31.8	2.25	A
PCBs, Total	ND		ug/kg	31.8	2.25	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	96		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 Batch: WG1111835-2 WG1111835-3									
Aroclor 1016	77		81		40-140	5		50	A
Aroclor 1260	76		79		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		92		30-150	A
Decachlorobiphenyl	90		93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		88		30-150	B
Decachlorobiphenyl	99		102		30-150	B

PESTICIDES

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-05
Client ID: TP-1A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 07:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/03/18 08:20
Analyst: KEG
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 05:16
Cleanup Method: EPA 3620B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.72	0.337	1	A
Lindane	ND		ug/kg	0.717	0.320	1	A
Alpha-BHC	ND		ug/kg	0.717	0.204	1	A
Beta-BHC	ND		ug/kg	1.72	0.653	1	A
Heptachlor	ND		ug/kg	0.860	0.386	1	A
Aldrin	ND		ug/kg	1.72	0.606	1	A
Heptachlor epoxide	ND		ug/kg	3.23	0.968	1	A
Endrin	ND		ug/kg	0.717	0.294	1	A
Endrin aldehyde	ND		ug/kg	2.15	0.753	1	A
Endrin ketone	ND		ug/kg	1.72	0.443	1	A
Dieldrin	ND		ug/kg	1.08	0.538	1	A
4,4'-DDE	0.546	J	ug/kg	1.72	0.398	1	B
4,4'-DDD	1.37	J	ug/kg	1.72	0.614	1	B
4,4'-DDT	ND		ug/kg	3.23	1.38	1	A
Endosulfan I	ND		ug/kg	1.72	0.407	1	A
Endosulfan II	ND		ug/kg	1.72	0.575	1	A
Endosulfan sulfate	ND		ug/kg	0.717	0.341	1	A
Methoxychlor	ND		ug/kg	3.23	1.00	1	A
Toxaphene	ND		ug/kg	32.3	9.04	1	A
cis-Chlordane	0.668	J	ug/kg	2.15	0.600	1	B
trans-Chlordane	ND	PI	ug/kg	2.15	0.568	1	A
Chlordane	ND		ug/kg	14.0	5.70	1	A

Project Name: FORMER BICC
Lab Number: L1815546
Project Number: 056970006
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-05
Client ID: TP-1A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 07:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	85		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	101		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-05
Client ID: TP-1A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 07:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/04/18 19:31
Analyst: SL
Percent Solids: 89%
Methylation Date: 05/03/18 13:53

Extraction Method: EPA 8151A
Extraction Date: 05/02/18 17:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	183	11.5	1	A
2,4,5-T	ND		ug/kg	183	5.68	1	A
2,4,5-TP (Silvex)	ND		ug/kg	183	4.87	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	105		30-150	A
DCAA	110		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-09
Client ID: TP-1B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 08:25
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/03/18 08:32
Analyst: KEG
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 05:16
Cleanup Method: EPA 3620B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.81	0.355	1	A
Lindane	ND		ug/kg	0.756	0.338	1	A
Alpha-BHC	ND		ug/kg	0.756	0.215	1	A
Beta-BHC	ND		ug/kg	1.81	0.688	1	A
Heptachlor	ND		ug/kg	0.907	0.407	1	A
Aldrin	ND		ug/kg	1.81	0.639	1	A
Heptachlor epoxide	ND		ug/kg	3.40	1.02	1	A
Endrin	ND	PI	ug/kg	0.756	0.310	1	A
Endrin aldehyde	ND		ug/kg	2.27	0.794	1	A
Endrin ketone	ND		ug/kg	1.81	0.467	1	A
Dieldrin	ND		ug/kg	1.13	0.567	1	A
4,4'-DDE	1.49	J	ug/kg	1.81	0.419	1	B
4,4'-DDD	1.79	J	ug/kg	1.81	0.647	1	B
4,4'-DDT	2.55	J	ug/kg	3.40	1.46	1	B
Endosulfan I	ND		ug/kg	1.81	0.428	1	A
Endosulfan II	ND		ug/kg	1.81	0.606	1	A
Endosulfan sulfate	ND		ug/kg	0.756	0.360	1	A
Methoxychlor	ND		ug/kg	3.40	1.06	1	A
Toxaphene	ND		ug/kg	34.0	9.52	1	A
cis-Chlordane	1.06	J	ug/kg	2.27	0.632	1	B
trans-Chlordane	ND	PI	ug/kg	2.27	0.598	1	A
Chlordane	ND		ug/kg	14.7	6.01	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-09
Client ID: TP-1B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 08:25
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	83		30-150	B
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	103		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-09
Client ID: TP-1B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 08:25
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/04/18 19:50
Analyst: SL
Percent Solids: 88%
Methylation Date: 05/03/18 13:53

Extraction Method: EPA 8151A
Extraction Date: 05/02/18 17:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	184	11.6	1	A
2,4,5-T	ND		ug/kg	184	5.70	1	A
2,4,5-TP (Silvex)	ND		ug/kg	184	4.89	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	127		30-150	A
DCAA	121		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-12
Client ID: TP-3_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 09:00
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/03/18 08:45
Analyst: KEG
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 05:16
Cleanup Method: EPA 3620B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.77	0.346	1	A
Lindane	ND		ug/kg	0.736	0.329	1	A
Alpha-BHC	ND		ug/kg	0.736	0.209	1	A
Beta-BHC	ND		ug/kg	1.77	0.670	1	A
Heptachlor	ND		ug/kg	0.883	0.396	1	A
Aldrin	ND		ug/kg	1.77	0.622	1	A
Heptachlor epoxide	ND		ug/kg	3.31	0.993	1	A
Endrin	2.30	P	ug/kg	0.736	0.302	1	B
Endrin aldehyde	ND		ug/kg	2.21	0.773	1	A
Endrin ketone	ND		ug/kg	1.77	0.455	1	A
Dieldrin	0.726	J	ug/kg	1.10	0.552	1	B
4,4'-DDE	2.20	P	ug/kg	1.77	0.408	1	B
4,4'-DDD	ND		ug/kg	1.77	0.630	1	A
4,4'-DDT	5.41	P	ug/kg	3.31	1.42	1	A
Endosulfan I	ND		ug/kg	1.77	0.417	1	A
Endosulfan II	1.75	J	ug/kg	1.77	0.590	1	B
Endosulfan sulfate	ND		ug/kg	0.736	0.350	1	A
Methoxychlor	ND		ug/kg	3.31	1.03	1	A
Toxaphene	ND		ug/kg	33.1	9.27	1	A
cis-Chlordane	1.23	J	ug/kg	2.21	0.615	1	A
trans-Chlordane	ND	PI	ug/kg	2.21	0.583	1	A
Chlordane	ND		ug/kg	14.3	5.85	1	A

Project Name: FORMER BICC
Lab Number: L1815546
Project Number: 056970006
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-12
Client ID: TP-3_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 09:00
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	76		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	97		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-12
Client ID: TP-3_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 09:00
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/04/18 20:09
Analyst: SL
Percent Solids: 88%
Methylation Date: 05/03/18 13:53

Extraction Method: EPA 8151A
Extraction Date: 05/02/18 17:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	188	11.8	1	A
2,4,5-T	ND		ug/kg	188	5.84	1	A
2,4,5-TP (Silvex)	ND		ug/kg	188	5.01	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	108		30-150	A
DCAA	110		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-15
Client ID: TP-4_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 09:45
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/03/18 08:58
Analyst: KEG
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 05:16
Cleanup Method: EPA 3620B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.76	0.345	1	A
Lindane	ND		ug/kg	0.734	0.328	1	A
Alpha-BHC	ND		ug/kg	0.734	0.208	1	A
Beta-BHC	ND		ug/kg	1.76	0.668	1	A
Heptachlor	ND		ug/kg	0.880	0.395	1	A
Aldrin	ND		ug/kg	1.76	0.620	1	A
Heptachlor epoxide	ND		ug/kg	3.30	0.990	1	A
Endrin	ND		ug/kg	0.734	0.301	1	A
Endrin aldehyde	ND		ug/kg	2.20	0.770	1	A
Endrin ketone	ND		ug/kg	1.76	0.453	1	A
Dieldrin	7.53		ug/kg	1.10	0.550	1	B
4,4'-DDE	7.83		ug/kg	1.76	0.407	1	B
4,4'-DDD	2.30	P	ug/kg	1.76	0.628	1	B
4,4'-DDT	15.2		ug/kg	3.30	1.42	1	A
Endosulfan I	ND		ug/kg	1.76	0.416	1	A
Endosulfan II	ND		ug/kg	1.76	0.588	1	A
Endosulfan sulfate	ND		ug/kg	0.734	0.349	1	A
Methoxychlor	ND		ug/kg	3.30	1.03	1	A
Toxaphene	ND		ug/kg	33.0	9.24	1	A
cis-Chlordane	3.59	PI	ug/kg	2.20	0.613	1	B
trans-Chlordane	2.46	PI	ug/kg	2.20	0.581	1	A
Chlordane	ND		ug/kg	14.3	5.83	1	A

Project Name: FORMER BICC
Lab Number: L1815546
Project Number: 056970006
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-15
Client ID: TP-4_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 09:45
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	85		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	115		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-15
Client ID: TP-4_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 09:45
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/04/18 20:28
Analyst: SL
Percent Solids: 87%
Methylation Date: 05/03/18 13:53

Extraction Method: EPA 8151A
Extraction Date: 05/02/18 17:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	190	12.0	1	A
2,4,5-T	ND		ug/kg	190	5.90	1	A
2,4,5-TP (Silvex)	ND		ug/kg	190	5.06	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	122		30-150	A
DCAA	121		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-18
Client ID: TP-5A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 10:45
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/03/18 09:10
Analyst: KEG
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 05:16
Cleanup Method: EPA 3620B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.74	0.340	1	A
Lindane	ND		ug/kg	0.724	0.324	1	A
Alpha-BHC	ND		ug/kg	0.724	0.206	1	A
Beta-BHC	ND		ug/kg	1.74	0.659	1	A
Heptachlor	ND		ug/kg	0.869	0.389	1	A
Aldrin	ND		ug/kg	1.74	0.612	1	A
Heptachlor epoxide	ND		ug/kg	3.26	0.977	1	A
Endrin	ND		ug/kg	0.724	0.297	1	A
Endrin aldehyde	ND		ug/kg	2.17	0.760	1	A
Endrin ketone	ND		ug/kg	1.74	0.447	1	A
Dieldrin	4.43		ug/kg	1.08	0.543	1	B
4,4'-DDE	8.42		ug/kg	1.74	0.402	1	A
4,4'-DDD	2.65		ug/kg	1.74	0.620	1	B
4,4'-DDT	29.8		ug/kg	3.26	1.40	1	A
Endosulfan I	ND		ug/kg	1.74	0.410	1	A
Endosulfan II	ND		ug/kg	1.74	0.580	1	A
Endosulfan sulfate	ND		ug/kg	0.724	0.344	1	A
Methoxychlor	ND		ug/kg	3.26	1.01	1	A
Toxaphene	ND		ug/kg	32.6	9.12	1	A
cis-Chlordane	3.36		ug/kg	2.17	0.605	1	A
trans-Chlordane	2.23		ug/kg	2.17	0.573	1	A
Chlordane	134		ug/kg	14.1	5.76	1	B

Project Name: FORMER BICC
Lab Number: L1815546
Project Number: 056970006
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-18
Client ID: TP-5A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 10:45
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	72		30-150	B
2,4,5,6-Tetrachloro-m-xylene	96		30-150	A
Decachlorobiphenyl	118		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-18
Client ID: TP-5A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 10:45
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/04/18 20:46
Analyst: SL
Percent Solids: 91%
Methylation Date: 05/03/18 13:53

Extraction Method: EPA 8151A
Extraction Date: 05/02/18 17:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	179	11.3	1	A
2,4,5-T	ND		ug/kg	179	5.54	1	A
2,4,5-TP (Silvex)	ND		ug/kg	179	4.76	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	114		30-150	A
DCAA	118		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-21
Client ID: TP-5B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 10:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/07/18 19:36
Analyst: KEG
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 05:16
Cleanup Method: EPA 3620B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.78	0.348	1	A
Lindane	ND		ug/kg	0.740	0.331	1	A
Alpha-BHC	ND		ug/kg	0.740	0.210	1	A
Beta-BHC	ND		ug/kg	1.78	0.673	1	A
Heptachlor	ND		ug/kg	0.888	0.398	1	A
Aldrin	ND		ug/kg	1.78	0.625	1	A
Heptachlor epoxide	ND		ug/kg	3.33	0.999	1	A
Endrin	ND		ug/kg	0.740	0.303	1	A
Endrin aldehyde	ND		ug/kg	2.22	0.777	1	A
Endrin ketone	ND		ug/kg	1.78	0.457	1	A
Dieldrin	ND		ug/kg	1.11	0.555	1	B
4,4'-DDE	1.62	J	ug/kg	1.78	0.411	1	A
4,4'-DDD	4.36		ug/kg	1.78	0.633	1	B
4,4'-DDT	18.5		ug/kg	3.33	1.43	1	A
Endosulfan I	ND		ug/kg	1.78	0.419	1	A
Endosulfan II	ND		ug/kg	1.78	0.593	1	A
Endosulfan sulfate	ND		ug/kg	0.740	0.352	1	A
Methoxychlor	ND		ug/kg	3.33	1.04	1	A
Toxaphene	ND		ug/kg	33.3	9.32	1	A
cis-Chlordane	2.32	P	ug/kg	2.22	0.618	1	A
trans-Chlordane	ND		ug/kg	2.22	0.586	1	A
Chlordane	ND		ug/kg	14.4	5.88	1	A

Project Name: FORMER BICC
Lab Number: L1815546
Project Number: 056970006
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-21
Client ID: TP-5B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 10:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	114		30-150	B
Decachlorobiphenyl	130		30-150	B
2,4,5,6-Tetrachloro-m-xylene	111		30-150	A
Decachlorobiphenyl	**174**	Q	30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-21
Client ID: TP-5B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 10:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/04/18 21:05
Analyst: SL
Percent Solids: 88%
Methylation Date: 05/03/18 13:53

Extraction Method: EPA 8151A
Extraction Date: 05/02/18 17:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	188	11.9	1	A
2,4,5-T	ND		ug/kg	188	5.84	1	A
2,4,5-TP (Silvex)	ND		ug/kg	188	5.01	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	115		30-150	A
DCAA	113		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-24
Client ID: TP-6_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 11:25
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/03/18 09:36
Analyst: KEG
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 05:16
Cleanup Method: EPA 3620B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.74	0.340	1	A
Lindane	ND		ug/kg	0.723	0.323	1	A
Alpha-BHC	ND		ug/kg	0.723	0.205	1	A
Beta-BHC	ND		ug/kg	1.74	0.658	1	A
Heptachlor	ND		ug/kg	0.868	0.389	1	A
Aldrin	ND		ug/kg	1.74	0.611	1	A
Heptachlor epoxide	ND		ug/kg	3.25	0.976	1	A
Endrin	0.574	JPI	ug/kg	0.723	0.296	1	A
Endrin aldehyde	ND		ug/kg	2.17	0.759	1	A
Endrin ketone	ND		ug/kg	1.74	0.447	1	A
Dieldrin	0.801	J	ug/kg	1.08	0.542	1	A
4,4'-DDE	2.97		ug/kg	1.74	0.401	1	B
4,4'-DDD	1.14	J	ug/kg	1.74	0.619	1	A
4,4'-DDT	10.0	P	ug/kg	3.25	1.40	1	A
Endosulfan I	ND		ug/kg	1.74	0.410	1	A
Endosulfan II	ND		ug/kg	1.74	0.580	1	A
Endosulfan sulfate	ND		ug/kg	0.723	0.344	1	A
Methoxychlor	ND		ug/kg	3.25	1.01	1	A
Toxaphene	ND		ug/kg	32.5	9.11	1	A
cis-Chlordane	1.18	J	ug/kg	2.17	0.605	1	A
trans-Chlordane	ND	PI	ug/kg	2.17	0.573	1	A
Chlordane	ND		ug/kg	14.1	5.75	1	A

Project Name: FORMER BICC
Lab Number: L1815546
Project Number: 056970006
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-24
Client ID: TP-6_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 11:25
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	77		30-150	B
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	107		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-24
Client ID: TP-6_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 11:25
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/04/18 21:24
Analyst: SL
Percent Solids: 88%
Methylation Date: 05/03/18 13:53

Extraction Method: EPA 8151A
Extraction Date: 05/02/18 17:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	184	11.6	1	A
2,4,5-T	ND		ug/kg	184	5.71	1	A
2,4,5-TP (Silvex)	ND		ug/kg	184	4.90	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	115		30-150	A
DCAA	116		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-27
Client ID: TP-8_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 11:55
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/03/18 09:48
Analyst: KEG
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 05:16
Cleanup Method: EPA 3620B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.74	0.340	1	A
Lindane	ND		ug/kg	0.724	0.323	1	A
Alpha-BHC	ND		ug/kg	0.724	0.205	1	A
Beta-BHC	ND		ug/kg	1.74	0.658	1	A
Heptachlor	ND		ug/kg	0.868	0.389	1	A
Aldrin	ND		ug/kg	1.74	0.611	1	A
Heptachlor epoxide	ND		ug/kg	3.26	0.977	1	A
Endrin	ND		ug/kg	0.724	0.297	1	A
Endrin aldehyde	ND		ug/kg	2.17	0.760	1	A
Endrin ketone	ND		ug/kg	1.74	0.447	1	A
Dieldrin	ND		ug/kg	1.08	0.543	1	A
4,4'-DDE	1.27	J	ug/kg	1.74	0.402	1	B
4,4'-DDD	1.28	J	ug/kg	1.74	0.619	1	B
4,4'-DDT	2.79	J	ug/kg	3.26	1.40	1	A
Endosulfan I	ND		ug/kg	1.74	0.410	1	A
Endosulfan II	ND		ug/kg	1.74	0.580	1	A
Endosulfan sulfate	ND		ug/kg	0.724	0.344	1	A
Methoxychlor	ND		ug/kg	3.26	1.01	1	A
Toxaphene	ND		ug/kg	32.6	9.12	1	A
cis-Chlordane	0.785	J	ug/kg	2.17	0.605	1	A
trans-Chlordane	ND	PI	ug/kg	2.17	0.573	1	A
Chlordane	ND		ug/kg	14.1	5.75	1	A

Project Name: FORMER BICC
Lab Number: L1815546
Project Number: 056970006
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-27
Client ID: TP-8_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 11:55
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	74		30-150	B
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	106		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-27
Client ID: TP-8_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 11:55
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/04/18 21:43
Analyst: SL
Percent Solids: 89%
Methylation Date: 05/03/18 13:53

Extraction Method: EPA 8151A
Extraction Date: 05/02/18 17:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	187	11.8	1	A
2,4,5-T	ND		ug/kg	187	5.80	1	A
2,4,5-TP (Silvex)	ND		ug/kg	187	4.98	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	122		30-150	A
DCAA	123		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-30
Client ID: TP-9A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 13:10
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/03/18 10:01
Analyst: KEG
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 05:16
Cleanup Method: EPA 3620B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.70	0.333	1	A
Lindane	ND		ug/kg	0.709	0.317	1	A
Alpha-BHC	ND		ug/kg	0.709	0.201	1	A
Beta-BHC	ND		ug/kg	1.70	0.645	1	A
Heptachlor	ND		ug/kg	0.851	0.381	1	A
Aldrin	ND		ug/kg	1.70	0.599	1	A
Heptachlor epoxide	ND		ug/kg	3.19	0.957	1	A
Endrin	ND		ug/kg	0.709	0.291	1	A
Endrin aldehyde	ND		ug/kg	2.13	0.744	1	A
Endrin ketone	ND		ug/kg	1.70	0.438	1	A
Dieldrin	ND		ug/kg	1.06	0.532	1	A
4,4'-DDE	0.481	J	ug/kg	1.70	0.393	1	B
4,4'-DDD	ND		ug/kg	1.70	0.607	1	A
4,4'-DDT	ND		ug/kg	3.19	1.37	1	B
Endosulfan I	ND		ug/kg	1.70	0.402	1	A
Endosulfan II	ND		ug/kg	1.70	0.568	1	A
Endosulfan sulfate	ND		ug/kg	0.709	0.337	1	A
Methoxychlor	ND		ug/kg	3.19	0.992	1	A
Toxaphene	ND		ug/kg	31.9	8.93	1	A
cis-Chlordane	ND		ug/kg	2.13	0.592	1	A
trans-Chlordane	ND		ug/kg	2.13	0.561	1	A
Chlordane	ND		ug/kg	13.8	5.64	1	A

Project Name: FORMER BICC
Lab Number: L1815546
Project Number: 056970006
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-30
Client ID: TP-9A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 13:10
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	75		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	88		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-30
Client ID: TP-9A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 13:10
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/04/18 22:02
Analyst: SL
Percent Solids: 91%
Methylation Date: 05/03/18 13:53

Extraction Method: EPA 8151A
Extraction Date: 05/02/18 17:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	180	11.3	1	A
2,4,5-T	ND		ug/kg	180	5.56	1	A
2,4,5-TP (Silvex)	ND		ug/kg	180	4.78	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	103		30-150	A
DCAA	116		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-33
Client ID: TP-9B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 13:15
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/03/18 10:14
Analyst: KEG
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 05:16
Cleanup Method: EPA 3620B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.80	0.352	1	A
Lindane	ND		ug/kg	0.748	0.334	1	A
Alpha-BHC	ND		ug/kg	0.748	0.212	1	A
Beta-BHC	ND		ug/kg	1.80	0.681	1	A
Heptachlor	ND		ug/kg	0.898	0.402	1	A
Aldrin	ND		ug/kg	1.80	0.632	1	A
Heptachlor epoxide	ND		ug/kg	3.37	1.01	1	A
Endrin	ND		ug/kg	0.748	0.307	1	A
Endrin aldehyde	ND		ug/kg	2.24	0.786	1	A
Endrin ketone	ND		ug/kg	1.80	0.462	1	A
Dieldrin	ND		ug/kg	1.12	0.561	1	A
4,4'-DDE	0.630	J	ug/kg	1.80	0.415	1	B
4,4'-DDD	ND		ug/kg	1.80	0.640	1	A
4,4'-DDT	ND		ug/kg	3.37	1.44	1	A
Endosulfan I	ND		ug/kg	1.80	0.424	1	A
Endosulfan II	ND		ug/kg	1.80	0.600	1	B
Endosulfan sulfate	ND		ug/kg	0.748	0.356	1	A
Methoxychlor	ND		ug/kg	3.37	1.05	1	A
Toxaphene	ND		ug/kg	33.7	9.43	1	A
cis-Chlordane	0.683	J	ug/kg	2.24	0.626	1	A
trans-Chlordane	ND		ug/kg	2.24	0.593	1	A
Chlordane	ND		ug/kg	14.6	5.95	1	A

Project Name: FORMER BICC
Lab Number: L1815546
Project Number: 056970006
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-33
Client ID: TP-9B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 13:15
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	80		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	97		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-33
Client ID: TP-9B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 13:15
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/04/18 22:20
Analyst: SL
Percent Solids: 84%
Methylation Date: 05/03/18 13:53

Extraction Method: EPA 8151A
Extraction Date: 05/02/18 17:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	195	12.3	1	A
2,4,5-T	ND		ug/kg	195	6.04	1	A
2,4,5-TP (Silvex)	ND		ug/kg	195	5.18	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	122		30-150	A
DCAA	123		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-36
Client ID: TP-10A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 14:00
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/03/18 10:26
Analyst: KEG
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 05:16
Cleanup Method: EPA 3620B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.68	0.330	1	A
Lindane	ND		ug/kg	0.701	0.314	1	A
Alpha-BHC	ND		ug/kg	0.701	0.199	1	A
Beta-BHC	ND		ug/kg	1.68	0.638	1	A
Heptachlor	ND		ug/kg	0.842	0.377	1	A
Aldrin	ND		ug/kg	1.68	0.593	1	A
Heptachlor epoxide	ND		ug/kg	3.16	0.947	1	A
Endrin	ND		ug/kg	0.701	0.288	1	A
Endrin aldehyde	ND		ug/kg	2.10	0.736	1	A
Endrin ketone	ND		ug/kg	1.68	0.433	1	A
Dieldrin	0.700	J	ug/kg	1.05	0.526	1	B
4,4'-DDE	2.94	P	ug/kg	1.68	0.389	1	B
4,4'-DDD	1.12	J	ug/kg	1.68	0.600	1	B
4,4'-DDT	12.9		ug/kg	3.16	1.35	1	A
Endosulfan I	ND		ug/kg	1.68	0.398	1	A
Endosulfan II	ND		ug/kg	1.68	0.562	1	A
Endosulfan sulfate	ND		ug/kg	0.701	0.334	1	A
Methoxychlor	ND		ug/kg	3.16	0.982	1	A
Toxaphene	ND		ug/kg	31.6	8.84	1	A
cis-Chlordane	0.606	J	ug/kg	2.10	0.586	1	A
trans-Chlordane	ND		ug/kg	2.10	0.555	1	A
Chlordane	ND		ug/kg	13.7	5.58	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-36
Client ID: TP-10A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 14:00
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	84		30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	93		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-36
Client ID: TP-10A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 14:00
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/04/18 22:58
Analyst: SL
Percent Solids: 91%
Methylation Date: 05/03/18 13:53

Extraction Method: EPA 8151A
Extraction Date: 05/02/18 17:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	180	11.3	1	A
2,4,5-T	ND		ug/kg	180	5.57	1	A
2,4,5-TP (Silvex)	ND		ug/kg	180	4.78	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	116		30-150	A
DCAA	125		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-39
Client ID: TP-10B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 14:05
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/03/18 10:39
Analyst: KEG
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/02/18 05:16
Cleanup Method: EPA 3620B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.78	0.350	1	A
Lindane	ND		ug/kg	0.744	0.332	1	A
Alpha-BHC	ND		ug/kg	0.744	0.211	1	A
Beta-BHC	ND		ug/kg	1.78	0.677	1	A
Heptachlor	ND		ug/kg	0.893	0.400	1	A
Aldrin	ND		ug/kg	1.78	0.629	1	A
Heptachlor epoxide	ND		ug/kg	3.35	1.00	1	A
Endrin	ND		ug/kg	0.744	0.305	1	A
Endrin aldehyde	ND		ug/kg	2.23	0.781	1	A
Endrin ketone	ND		ug/kg	1.78	0.460	1	A
Dieldrin	ND		ug/kg	1.12	0.558	1	A
4,4'-DDE	0.914	J	ug/kg	1.78	0.413	1	B
4,4'-DDD	1.32	J	ug/kg	1.78	0.637	1	B
4,4'-DDT	5.10		ug/kg	3.35	1.44	1	B
Endosulfan I	ND		ug/kg	1.78	0.422	1	A
Endosulfan II	ND		ug/kg	1.78	0.597	1	A
Endosulfan sulfate	ND		ug/kg	0.744	0.354	1	A
Methoxychlor	ND		ug/kg	3.35	1.04	1	A
Toxaphene	ND		ug/kg	33.5	9.38	1	A
cis-Chlordane	ND		ug/kg	2.23	0.622	1	A
trans-Chlordane	ND	PI	ug/kg	2.23	0.589	1	A
Chlordane	ND		ug/kg	14.5	5.92	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-39
Client ID: TP-10B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 14:05
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	84		30-150	B
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	101		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-39
Client ID: TP-10B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 14:05
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/04/18 23:17
Analyst: SL
Percent Solids: 88%
Methylation Date: 05/03/18 13:53

Extraction Method: EPA 8151A
Extraction Date: 05/02/18 17:16

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	188	11.9	1	A
2,4,5-T	ND		ug/kg	188	5.84	1	A
2,4,5-TP (Silvex)	ND		ug/kg	188	5.01	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	117		30-150	A
DCAA	128		30-150	B

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/02/18 09:31
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 05/02/18 02:27
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 Batch: WG1111643-1						
Delta-BHC	ND		ug/kg	1.55	0.303	A
Lindane	ND		ug/kg	0.645	0.288	A
Alpha-BHC	ND		ug/kg	0.645	0.183	A
Beta-BHC	ND		ug/kg	1.55	0.587	A
Heptachlor	ND		ug/kg	0.774	0.347	A
Aldrin	ND		ug/kg	1.55	0.545	A
Heptachlor epoxide	ND		ug/kg	2.90	0.871	A
Endrin	ND		ug/kg	0.645	0.264	A
Endrin aldehyde	ND		ug/kg	1.94	0.677	A
Endrin ketone	ND		ug/kg	1.55	0.399	A
Dieldrin	ND		ug/kg	0.968	0.484	A
4,4'-DDE	ND		ug/kg	1.55	0.358	A
4,4'-DDD	ND		ug/kg	1.55	0.552	A
4,4'-DDT	ND		ug/kg	2.90	1.24	A
Endosulfan I	ND		ug/kg	1.55	0.366	A
Endosulfan II	ND		ug/kg	1.55	0.517	A
Endosulfan sulfate	ND		ug/kg	0.645	0.307	A
Methoxychlor	ND		ug/kg	2.90	0.903	A
Toxaphene	ND		ug/kg	29.0	8.13	A
cis-Chlordane	ND		ug/kg	1.94	0.539	A
trans-Chlordane	ND		ug/kg	1.94	0.511	A
Chlordane	ND		ug/kg	12.6	5.13	A

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/02/18 09:31
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 05/02/18 02:27
Cleanup Method: EPA 3620B
Cleanup Date: 05/02/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 Batch: WG1111643-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	106		30-150	B
Decachlorobiphenyl	118		30-150	B
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	114		30-150	A

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 05/04/18 11:51
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 05/02/18 17:10

Methylation Date: 05/03/18 11:05

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 Batch: WG1111948-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.03	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	97		30-150	A
DCAA	134		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815546

Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 Batch: WG1111643-2 WG1111643-3									
Delta-BHC	105		104		30-150	1		30	A
Lindane	94		94		30-150	0		30	A
Alpha-BHC	99		98		30-150	1		30	A
Beta-BHC	106		107		30-150	1		30	A
Heptachlor	96		94		30-150	2		30	A
Aldrin	92		90		30-150	2		30	A
Heptachlor epoxide	99		96		30-150	3		30	A
Endrin	103		100		30-150	3		30	A
Endrin aldehyde	89		91		30-150	2		30	A
Endrin ketone	97		91		30-150	6		30	A
Dieldrin	100		96		30-150	4		30	A
4,4'-DDE	91		87		30-150	4		30	A
4,4'-DDD	90		89		30-150	1		30	A
4,4'-DDT	95		92		30-150	3		30	A
Endosulfan I	88		87		30-150	1		30	A
Endosulfan II	90		89		30-150	1		30	A
Endosulfan sulfate	84		83		30-150	1		30	A
Methoxychlor	101		100		30-150	1		30	A
cis-Chlordane	82		79		30-150	4		30	A
trans-Chlordane	82		90		30-150	9		30	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 Batch: WG1111643-2 WG1111643-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	103		105		30-150	B
Decachlorobiphenyl	113		107		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		82		30-150	A
Decachlorobiphenyl	112		106		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815546

Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 Batch: WG1111948-2 WG1111948-3									
2,4-D	92		89		30-150	3		30	A
2,4,5-T	89		90		30-150	1		30	A
2,4,5-TP (Silvex)	73		74		30-150	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	94		99		30-150	A
DCAA	111		120		30-150	B

METALS

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-05
Client ID: TP-1A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 07:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	14500		mg/kg	8.70	2.35	2	05/03/18 21:23	05/04/18 13:42	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.35	0.331	2	05/03/18 21:23	05/04/18 13:42	EPA 3050B	1,6010C	LC
Arsenic, Total	ND		mg/kg	0.870	0.181	2	05/03/18 21:23	05/04/18 13:42	EPA 3050B	1,6010C	LC
Barium, Total	170		mg/kg	0.870	0.151	2	05/03/18 21:23	05/04/18 13:42	EPA 3050B	1,6010C	LC
Beryllium, Total	0.183	J	mg/kg	0.435	0.029	2	05/03/18 21:23	05/04/18 13:42	EPA 3050B	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.870	0.085	2	05/03/18 21:23	05/04/18 13:42	EPA 3050B	1,6010C	LC
Calcium, Total	2680		mg/kg	8.70	3.04	2	05/03/18 21:23	05/04/18 13:42	EPA 3050B	1,6010C	LC
Chromium, Total	26.9		mg/kg	0.870	0.084	2	05/03/18 21:23	05/04/18 13:42	EPA 3050B	1,6010C	LC
Cobalt, Total	15.6		mg/kg	1.74	0.144	2	05/03/18 21:23	05/04/18 13:42	EPA 3050B	1,6010C	LC
Copper, Total	52.6		mg/kg	0.870	0.224	2	05/03/18 21:23	05/04/18 13:42	EPA 3050B	1,6010C	LC
Iron, Total	22200		mg/kg	4.35	0.786	2	05/03/18 21:23	05/04/18 13:42	EPA 3050B	1,6010C	LC
Lead, Total	5.32		mg/kg	4.35	0.233	2	05/03/18 21:23	05/04/18 13:42	EPA 3050B	1,6010C	LC
Magnesium, Total	6240		mg/kg	8.70	1.34	2	05/03/18 21:23	05/04/18 13:42	EPA 3050B	1,6010C	LC
Manganese, Total	190		mg/kg	0.870	0.138	2	05/03/18 21:23	05/04/18 13:42	EPA 3050B	1,6010C	LC
Mercury, Total	ND		mg/kg	0.071	0.015	1	05/03/18 07:30	05/03/18 18:39	EPA 7471B	1,7471B	EA
Nickel, Total	26.2		mg/kg	2.18	0.210	2	05/03/18 21:23	05/04/18 13:42	EPA 3050B	1,6010C	LC
Potassium, Total	8120		mg/kg	218	12.5	2	05/03/18 21:23	05/04/18 13:42	EPA 3050B	1,6010C	LC
Selenium, Total	0.696	J	mg/kg	1.74	0.224	2	05/03/18 21:23	05/04/18 13:42	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.870	0.246	2	05/03/18 21:23	05/04/18 13:42	EPA 3050B	1,6010C	LC
Sodium, Total	184		mg/kg	174	2.74	2	05/03/18 21:23	05/04/18 13:42	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.74	0.274	2	05/03/18 21:23	05/04/18 13:42	EPA 3050B	1,6010C	LC
Vanadium, Total	43.4		mg/kg	0.870	0.177	2	05/03/18 21:23	05/04/18 13:42	EPA 3050B	1,6010C	LC
Zinc, Total	59.8		mg/kg	4.35	0.255	2	05/03/18 21:23	05/04/18 13:42	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	27		mg/kg	0.90	0.90	1		05/04/18 13:42	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-09
Client ID: TP-1B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 08:25
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	16600		mg/kg	8.86	2.39	2	05/03/18 21:23	05/04/18 13:47	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.43	0.337	2	05/03/18 21:23	05/04/18 13:47	EPA 3050B	1,6010C	LC
Arsenic, Total	1.16		mg/kg	0.886	0.184	2	05/03/18 21:23	05/04/18 13:47	EPA 3050B	1,6010C	LC
Barium, Total	148		mg/kg	0.886	0.154	2	05/03/18 21:23	05/04/18 13:47	EPA 3050B	1,6010C	LC
Beryllium, Total	0.310	J	mg/kg	0.443	0.029	2	05/03/18 21:23	05/04/18 13:47	EPA 3050B	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.886	0.087	2	05/03/18 21:23	05/04/18 13:47	EPA 3050B	1,6010C	LC
Calcium, Total	3710		mg/kg	8.86	3.10	2	05/03/18 21:23	05/04/18 13:47	EPA 3050B	1,6010C	LC
Chromium, Total	30.5		mg/kg	0.886	0.085	2	05/03/18 21:23	05/04/18 13:47	EPA 3050B	1,6010C	LC
Cobalt, Total	14.7		mg/kg	1.77	0.147	2	05/03/18 21:23	05/04/18 13:47	EPA 3050B	1,6010C	LC
Copper, Total	44.4		mg/kg	0.886	0.229	2	05/03/18 21:23	05/04/18 13:47	EPA 3050B	1,6010C	LC
Iron, Total	23800		mg/kg	4.43	0.800	2	05/03/18 21:23	05/04/18 13:47	EPA 3050B	1,6010C	LC
Lead, Total	10.4		mg/kg	4.43	0.238	2	05/03/18 21:23	05/04/18 13:47	EPA 3050B	1,6010C	LC
Magnesium, Total	6270		mg/kg	8.86	1.36	2	05/03/18 21:23	05/04/18 13:47	EPA 3050B	1,6010C	LC
Manganese, Total	371		mg/kg	0.886	0.141	2	05/03/18 21:23	05/04/18 13:47	EPA 3050B	1,6010C	LC
Mercury, Total	0.038	J	mg/kg	0.072	0.015	1	05/03/18 07:30	05/03/18 18:41	EPA 7471B	1,7471B	EA
Nickel, Total	21.7		mg/kg	2.22	0.214	2	05/03/18 21:23	05/04/18 13:47	EPA 3050B	1,6010C	LC
Potassium, Total	6420		mg/kg	222	12.8	2	05/03/18 21:23	05/04/18 13:47	EPA 3050B	1,6010C	LC
Selenium, Total	0.886	J	mg/kg	1.77	0.229	2	05/03/18 21:23	05/04/18 13:47	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.886	0.251	2	05/03/18 21:23	05/04/18 13:47	EPA 3050B	1,6010C	LC
Sodium, Total	210		mg/kg	177	2.79	2	05/03/18 21:23	05/04/18 13:47	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.77	0.279	2	05/03/18 21:23	05/04/18 13:47	EPA 3050B	1,6010C	LC
Vanadium, Total	48.5		mg/kg	0.886	0.180	2	05/03/18 21:23	05/04/18 13:47	EPA 3050B	1,6010C	LC
Zinc, Total	58.4		mg/kg	4.43	0.260	2	05/03/18 21:23	05/04/18 13:47	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	30		mg/kg	0.91	0.91	1		05/04/18 13:47	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-12
Client ID: TP-3_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 09:00
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	16600		mg/kg	8.74	2.36	2	05/03/18 21:23	05/04/18 13:51	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.37	0.332	2	05/03/18 21:23	05/04/18 13:51	EPA 3050B	1,6010C	LC
Arsenic, Total	0.472	J	mg/kg	0.874	0.182	2	05/03/18 21:23	05/04/18 13:51	EPA 3050B	1,6010C	LC
Barium, Total	176		mg/kg	0.874	0.152	2	05/03/18 21:23	05/04/18 13:51	EPA 3050B	1,6010C	LC
Beryllium, Total	0.218	J	mg/kg	0.437	0.029	2	05/03/18 21:23	05/04/18 13:51	EPA 3050B	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.874	0.086	2	05/03/18 21:23	05/04/18 13:51	EPA 3050B	1,6010C	LC
Calcium, Total	2400		mg/kg	8.74	3.06	2	05/03/18 21:23	05/04/18 13:51	EPA 3050B	1,6010C	LC
Chromium, Total	32.6		mg/kg	0.874	0.084	2	05/03/18 21:23	05/04/18 13:51	EPA 3050B	1,6010C	LC
Cobalt, Total	15.9		mg/kg	1.75	0.145	2	05/03/18 21:23	05/04/18 13:51	EPA 3050B	1,6010C	LC
Copper, Total	88.9		mg/kg	0.874	0.225	2	05/03/18 21:23	05/04/18 13:51	EPA 3050B	1,6010C	LC
Iron, Total	25400		mg/kg	4.37	0.789	2	05/03/18 21:23	05/04/18 13:51	EPA 3050B	1,6010C	LC
Lead, Total	6.00		mg/kg	4.37	0.234	2	05/03/18 21:23	05/04/18 13:51	EPA 3050B	1,6010C	LC
Magnesium, Total	6930		mg/kg	8.74	1.34	2	05/03/18 21:23	05/04/18 13:51	EPA 3050B	1,6010C	LC
Manganese, Total	226		mg/kg	0.874	0.139	2	05/03/18 21:23	05/04/18 13:51	EPA 3050B	1,6010C	LC
Mercury, Total	0.026	J	mg/kg	0.071	0.015	1	05/03/18 07:30	05/03/18 18:43	EPA 7471B	1,7471B	EA
Nickel, Total	26.0		mg/kg	2.18	0.211	2	05/03/18 21:23	05/04/18 13:51	EPA 3050B	1,6010C	LC
Potassium, Total	8090		mg/kg	218	12.6	2	05/03/18 21:23	05/04/18 13:51	EPA 3050B	1,6010C	LC
Selenium, Total	1.11	J	mg/kg	1.75	0.225	2	05/03/18 21:23	05/04/18 13:51	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.874	0.247	2	05/03/18 21:23	05/04/18 13:51	EPA 3050B	1,6010C	LC
Sodium, Total	211		mg/kg	175	2.75	2	05/03/18 21:23	05/04/18 13:51	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.75	0.275	2	05/03/18 21:23	05/04/18 13:51	EPA 3050B	1,6010C	LC
Vanadium, Total	52.6		mg/kg	0.874	0.177	2	05/03/18 21:23	05/04/18 13:51	EPA 3050B	1,6010C	LC
Zinc, Total	58.6		mg/kg	4.37	0.256	2	05/03/18 21:23	05/04/18 13:51	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	33		mg/kg	0.91	0.91	1		05/04/18 13:51	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-15
Client ID: TP-4_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 09:45
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	14500		mg/kg	8.64	2.33	2	05/03/18 21:23	05/04/18 13:56	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.32	0.328	2	05/03/18 21:23	05/04/18 13:56	EPA 3050B	1,6010C	LC
Arsenic, Total	0.648	J	mg/kg	0.864	0.180	2	05/03/18 21:23	05/04/18 13:56	EPA 3050B	1,6010C	LC
Barium, Total	128		mg/kg	0.864	0.150	2	05/03/18 21:23	05/04/18 13:56	EPA 3050B	1,6010C	LC
Beryllium, Total	0.224	J	mg/kg	0.432	0.029	2	05/03/18 21:23	05/04/18 13:56	EPA 3050B	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.864	0.085	2	05/03/18 21:23	05/04/18 13:56	EPA 3050B	1,6010C	LC
Calcium, Total	4050		mg/kg	8.64	3.02	2	05/03/18 21:23	05/04/18 13:56	EPA 3050B	1,6010C	LC
Chromium, Total	26.2		mg/kg	0.864	0.083	2	05/03/18 21:23	05/04/18 13:56	EPA 3050B	1,6010C	LC
Cobalt, Total	12.9		mg/kg	1.73	0.143	2	05/03/18 21:23	05/04/18 13:56	EPA 3050B	1,6010C	LC
Copper, Total	41.6		mg/kg	0.864	0.223	2	05/03/18 21:23	05/04/18 13:56	EPA 3050B	1,6010C	LC
Iron, Total	22500		mg/kg	4.32	0.780	2	05/03/18 21:23	05/04/18 13:56	EPA 3050B	1,6010C	LC
Lead, Total	24.4		mg/kg	4.32	0.231	2	05/03/18 21:23	05/04/18 13:56	EPA 3050B	1,6010C	LC
Magnesium, Total	5410		mg/kg	8.64	1.33	2	05/03/18 21:23	05/04/18 13:56	EPA 3050B	1,6010C	LC
Manganese, Total	370		mg/kg	0.864	0.137	2	05/03/18 21:23	05/04/18 13:56	EPA 3050B	1,6010C	LC
Mercury, Total	0.030	J	mg/kg	0.073	0.015	1	05/03/18 07:30	05/03/18 18:45	EPA 7471B	1,7471B	EA
Nickel, Total	18.5		mg/kg	2.16	0.209	2	05/03/18 21:23	05/04/18 13:56	EPA 3050B	1,6010C	LC
Potassium, Total	5520		mg/kg	216	12.4	2	05/03/18 21:23	05/04/18 13:56	EPA 3050B	1,6010C	LC
Selenium, Total	0.777	J	mg/kg	1.73	0.223	2	05/03/18 21:23	05/04/18 13:56	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.864	0.244	2	05/03/18 21:23	05/04/18 13:56	EPA 3050B	1,6010C	LC
Sodium, Total	131	J	mg/kg	173	2.72	2	05/03/18 21:23	05/04/18 13:56	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.73	0.272	2	05/03/18 21:23	05/04/18 13:56	EPA 3050B	1,6010C	LC
Vanadium, Total	41.8		mg/kg	0.864	0.175	2	05/03/18 21:23	05/04/18 13:56	EPA 3050B	1,6010C	LC
Zinc, Total	67.2		mg/kg	4.32	0.253	2	05/03/18 21:23	05/04/18 13:56	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	26		mg/kg	0.92	0.92	1		05/04/18 13:56	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-18
Client ID: TP-5A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 10:45
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8910		mg/kg	8.64	2.33	2	05/03/18 21:23	05/04/18 14:00	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.32	0.328	2	05/03/18 21:23	05/04/18 14:00	EPA 3050B	1,6010C	LC
Arsenic, Total	1.14		mg/kg	0.864	0.180	2	05/03/18 21:23	05/04/18 14:00	EPA 3050B	1,6010C	LC
Barium, Total	114		mg/kg	0.864	0.150	2	05/03/18 21:23	05/04/18 14:00	EPA 3050B	1,6010C	LC
Beryllium, Total	0.112	J	mg/kg	0.432	0.029	2	05/03/18 21:23	05/04/18 14:00	EPA 3050B	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.864	0.085	2	05/03/18 21:23	05/04/18 14:00	EPA 3050B	1,6010C	LC
Calcium, Total	18700		mg/kg	8.64	3.02	2	05/03/18 21:23	05/04/18 14:00	EPA 3050B	1,6010C	LC
Chromium, Total	17.6		mg/kg	0.864	0.083	2	05/03/18 21:23	05/04/18 14:00	EPA 3050B	1,6010C	LC
Cobalt, Total	9.08		mg/kg	1.73	0.143	2	05/03/18 21:23	05/04/18 14:00	EPA 3050B	1,6010C	LC
Copper, Total	26.9		mg/kg	0.864	0.223	2	05/03/18 21:23	05/04/18 14:00	EPA 3050B	1,6010C	LC
Iron, Total	16400		mg/kg	4.32	0.780	2	05/03/18 21:23	05/04/18 14:00	EPA 3050B	1,6010C	LC
Lead, Total	72.9		mg/kg	4.32	0.232	2	05/03/18 21:23	05/04/18 14:00	EPA 3050B	1,6010C	LC
Magnesium, Total	10900		mg/kg	8.64	1.33	2	05/03/18 21:23	05/04/18 14:00	EPA 3050B	1,6010C	LC
Manganese, Total	191		mg/kg	0.864	0.137	2	05/03/18 21:23	05/04/18 14:00	EPA 3050B	1,6010C	LC
Mercury, Total	0.061	J	mg/kg	0.069	0.015	1	05/03/18 07:30	05/03/18 18:47	EPA 7471B	1,7471B	EA
Nickel, Total	14.4		mg/kg	2.16	0.209	2	05/03/18 21:23	05/04/18 14:00	EPA 3050B	1,6010C	LC
Potassium, Total	4910		mg/kg	216	12.4	2	05/03/18 21:23	05/04/18 14:00	EPA 3050B	1,6010C	LC
Selenium, Total	0.510	J	mg/kg	1.73	0.223	2	05/03/18 21:23	05/04/18 14:00	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.864	0.244	2	05/03/18 21:23	05/04/18 14:00	EPA 3050B	1,6010C	LC
Sodium, Total	126	J	mg/kg	173	2.72	2	05/03/18 21:23	05/04/18 14:00	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.73	0.272	2	05/03/18 21:23	05/04/18 14:00	EPA 3050B	1,6010C	LC
Vanadium, Total	25.7		mg/kg	0.864	0.175	2	05/03/18 21:23	05/04/18 14:00	EPA 3050B	1,6010C	LC
Zinc, Total	63.6		mg/kg	4.32	0.253	2	05/03/18 21:23	05/04/18 14:00	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	18		mg/kg	0.88	0.88	1		05/04/18 14:00	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-21
Client ID: TP-5B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 10:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	15800		mg/kg	8.86	2.39	2	05/03/18 21:23	05/04/18 14:04	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.43	0.337	2	05/03/18 21:23	05/04/18 14:04	EPA 3050B	1,6010C	LC
Arsenic, Total	2.19		mg/kg	0.886	0.184	2	05/03/18 21:23	05/04/18 14:04	EPA 3050B	1,6010C	LC
Barium, Total	164		mg/kg	0.886	0.154	2	05/03/18 21:23	05/04/18 14:04	EPA 3050B	1,6010C	LC
Beryllium, Total	0.275	J	mg/kg	0.443	0.029	2	05/03/18 21:23	05/04/18 14:04	EPA 3050B	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.886	0.087	2	05/03/18 21:23	05/04/18 14:04	EPA 3050B	1,6010C	LC
Calcium, Total	3400		mg/kg	8.86	3.10	2	05/03/18 21:23	05/04/18 14:04	EPA 3050B	1,6010C	LC
Chromium, Total	33.0		mg/kg	0.886	0.085	2	05/03/18 21:23	05/04/18 14:04	EPA 3050B	1,6010C	LC
Cobalt, Total	12.8		mg/kg	1.77	0.147	2	05/03/18 21:23	05/04/18 14:04	EPA 3050B	1,6010C	LC
Copper, Total	47.0		mg/kg	0.886	0.229	2	05/03/18 21:23	05/04/18 14:04	EPA 3050B	1,6010C	LC
Iron, Total	20900		mg/kg	4.43	0.800	2	05/03/18 21:23	05/04/18 14:04	EPA 3050B	1,6010C	LC
Lead, Total	65.5		mg/kg	4.43	0.238	2	05/03/18 21:23	05/04/18 14:04	EPA 3050B	1,6010C	LC
Magnesium, Total	5550		mg/kg	8.86	1.36	2	05/03/18 21:23	05/04/18 14:04	EPA 3050B	1,6010C	LC
Manganese, Total	271		mg/kg	0.886	0.141	2	05/03/18 21:23	05/04/18 14:04	EPA 3050B	1,6010C	LC
Mercury, Total	0.181		mg/kg	0.072	0.015	1	05/03/18 07:30	05/03/18 18:52	EPA 7471B	1,7471B	EA
Nickel, Total	21.2		mg/kg	2.22	0.214	2	05/03/18 21:23	05/04/18 14:04	EPA 3050B	1,6010C	LC
Potassium, Total	5180		mg/kg	222	12.8	2	05/03/18 21:23	05/04/18 14:04	EPA 3050B	1,6010C	LC
Selenium, Total	0.691	J	mg/kg	1.77	0.229	2	05/03/18 21:23	05/04/18 14:04	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.886	0.251	2	05/03/18 21:23	05/04/18 14:04	EPA 3050B	1,6010C	LC
Sodium, Total	183		mg/kg	177	2.79	2	05/03/18 21:23	05/04/18 14:04	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.77	0.279	2	05/03/18 21:23	05/04/18 14:04	EPA 3050B	1,6010C	LC
Vanadium, Total	45.1		mg/kg	0.886	0.180	2	05/03/18 21:23	05/04/18 14:04	EPA 3050B	1,6010C	LC
Zinc, Total	89.5		mg/kg	4.43	0.260	2	05/03/18 21:23	05/04/18 14:04	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	33		mg/kg	0.91	0.91	1		05/04/18 14:04	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-24
Client ID: TP-6_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 11:25
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12100		mg/kg	8.91	2.40	2	05/03/18 21:23	05/04/18 14:08	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.45	0.338	2	05/03/18 21:23	05/04/18 14:08	EPA 3050B	1,6010C	LC
Arsenic, Total	0.837	J	mg/kg	0.891	0.185	2	05/03/18 21:23	05/04/18 14:08	EPA 3050B	1,6010C	LC
Barium, Total	146		mg/kg	0.891	0.155	2	05/03/18 21:23	05/04/18 14:08	EPA 3050B	1,6010C	LC
Beryllium, Total	0.178	J	mg/kg	0.445	0.029	2	05/03/18 21:23	05/04/18 14:08	EPA 3050B	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.891	0.087	2	05/03/18 21:23	05/04/18 14:08	EPA 3050B	1,6010C	LC
Calcium, Total	5800		mg/kg	8.91	3.12	2	05/03/18 21:23	05/04/18 14:08	EPA 3050B	1,6010C	LC
Chromium, Total	75.2		mg/kg	0.891	0.086	2	05/03/18 21:23	05/04/18 14:08	EPA 3050B	1,6010C	LC
Cobalt, Total	12.0		mg/kg	1.78	0.148	2	05/03/18 21:23	05/04/18 14:08	EPA 3050B	1,6010C	LC
Copper, Total	28.6		mg/kg	0.891	0.230	2	05/03/18 21:23	05/04/18 14:08	EPA 3050B	1,6010C	LC
Iron, Total	20500		mg/kg	4.45	0.804	2	05/03/18 21:23	05/04/18 14:08	EPA 3050B	1,6010C	LC
Lead, Total	20.1		mg/kg	4.45	0.239	2	05/03/18 21:23	05/04/18 14:08	EPA 3050B	1,6010C	LC
Magnesium, Total	5300		mg/kg	8.91	1.37	2	05/03/18 21:23	05/04/18 14:08	EPA 3050B	1,6010C	LC
Manganese, Total	502		mg/kg	0.891	0.142	2	05/03/18 21:23	05/04/18 14:08	EPA 3050B	1,6010C	LC
Mercury, Total	0.066	J	mg/kg	0.071	0.015	1	05/03/18 07:30	05/03/18 18:54	EPA 7471B	1,7471B	EA
Nickel, Total	16.7		mg/kg	2.23	0.216	2	05/03/18 21:23	05/04/18 14:08	EPA 3050B	1,6010C	LC
Potassium, Total	6480		mg/kg	223	12.8	2	05/03/18 21:23	05/04/18 14:08	EPA 3050B	1,6010C	LC
Selenium, Total	0.445	J	mg/kg	1.78	0.230	2	05/03/18 21:23	05/04/18 14:08	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.891	0.252	2	05/03/18 21:23	05/04/18 14:08	EPA 3050B	1,6010C	LC
Sodium, Total	146	J	mg/kg	178	2.81	2	05/03/18 21:23	05/04/18 14:08	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.78	0.281	2	05/03/18 21:23	05/04/18 14:08	EPA 3050B	1,6010C	LC
Vanadium, Total	35.7		mg/kg	0.891	0.181	2	05/03/18 21:23	05/04/18 14:08	EPA 3050B	1,6010C	LC
Zinc, Total	61.0		mg/kg	4.45	0.261	2	05/03/18 21:23	05/04/18 14:08	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	75		mg/kg	0.91	0.91	1		05/04/18 14:08	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-27
Client ID: TP-8_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 11:55
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	16000		mg/kg	8.56	2.31	2	05/03/18 21:23	05/04/18 14:13	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.28	0.325	2	05/03/18 21:23	05/04/18 14:13	EPA 3050B	1,6010C	LC
Arsenic, Total	0.668	J	mg/kg	0.856	0.178	2	05/03/18 21:23	05/04/18 14:13	EPA 3050B	1,6010C	LC
Barium, Total	198		mg/kg	0.856	0.149	2	05/03/18 21:23	05/04/18 14:13	EPA 3050B	1,6010C	LC
Beryllium, Total	0.248	J	mg/kg	0.428	0.028	2	05/03/18 21:23	05/04/18 14:13	EPA 3050B	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.856	0.084	2	05/03/18 21:23	05/04/18 14:13	EPA 3050B	1,6010C	LC
Calcium, Total	2120		mg/kg	8.56	3.00	2	05/03/18 21:23	05/04/18 14:13	EPA 3050B	1,6010C	LC
Chromium, Total	28.6		mg/kg	0.856	0.082	2	05/03/18 21:23	05/04/18 14:13	EPA 3050B	1,6010C	LC
Cobalt, Total	15.3		mg/kg	1.71	0.142	2	05/03/18 21:23	05/04/18 14:13	EPA 3050B	1,6010C	LC
Copper, Total	40.4		mg/kg	0.856	0.221	2	05/03/18 21:23	05/04/18 14:13	EPA 3050B	1,6010C	LC
Iron, Total	22900		mg/kg	4.28	0.773	2	05/03/18 21:23	05/04/18 14:13	EPA 3050B	1,6010C	LC
Lead, Total	14.2		mg/kg	4.28	0.230	2	05/03/18 21:23	05/04/18 14:13	EPA 3050B	1,6010C	LC
Magnesium, Total	6250		mg/kg	8.56	1.32	2	05/03/18 21:23	05/04/18 14:13	EPA 3050B	1,6010C	LC
Manganese, Total	323		mg/kg	0.856	0.136	2	05/03/18 21:23	05/04/18 14:13	EPA 3050B	1,6010C	LC
Mercury, Total	0.041	J	mg/kg	0.071	0.015	1	05/03/18 07:30	05/03/18 18:56	EPA 7471B	1,7471B	EA
Nickel, Total	20.2		mg/kg	2.14	0.207	2	05/03/18 21:23	05/04/18 14:13	EPA 3050B	1,6010C	LC
Potassium, Total	7640		mg/kg	214	12.3	2	05/03/18 21:23	05/04/18 14:13	EPA 3050B	1,6010C	LC
Selenium, Total	0.891	J	mg/kg	1.71	0.221	2	05/03/18 21:23	05/04/18 14:13	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.856	0.242	2	05/03/18 21:23	05/04/18 14:13	EPA 3050B	1,6010C	LC
Sodium, Total	169	J	mg/kg	171	2.70	2	05/03/18 21:23	05/04/18 14:13	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.71	0.270	2	05/03/18 21:23	05/04/18 14:13	EPA 3050B	1,6010C	LC
Vanadium, Total	47.3		mg/kg	0.856	0.174	2	05/03/18 21:23	05/04/18 14:13	EPA 3050B	1,6010C	LC
Zinc, Total	59.1		mg/kg	4.28	0.251	2	05/03/18 21:23	05/04/18 14:13	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	29		mg/kg	0.90	0.90	1		05/04/18 14:13	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-30
Client ID: TP-9A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 13:10
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12400		mg/kg	8.52	2.30	2	05/03/18 21:23	05/04/18 14:17	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.26	0.324	2	05/03/18 21:23	05/04/18 14:17	EPA 3050B	1,6010C	LC
Arsenic, Total	ND		mg/kg	0.852	0.177	2	05/03/18 21:23	05/04/18 14:17	EPA 3050B	1,6010C	LC
Barium, Total	142		mg/kg	0.852	0.148	2	05/03/18 21:23	05/04/18 14:17	EPA 3050B	1,6010C	LC
Beryllium, Total	0.213	J	mg/kg	0.426	0.028	2	05/03/18 21:23	05/04/18 14:17	EPA 3050B	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.852	0.084	2	05/03/18 21:23	05/04/18 14:17	EPA 3050B	1,6010C	LC
Calcium, Total	2310		mg/kg	8.52	2.98	2	05/03/18 21:23	05/04/18 14:17	EPA 3050B	1,6010C	LC
Chromium, Total	24.4		mg/kg	0.852	0.082	2	05/03/18 21:23	05/04/18 14:17	EPA 3050B	1,6010C	LC
Cobalt, Total	14.2		mg/kg	1.70	0.141	2	05/03/18 21:23	05/04/18 14:17	EPA 3050B	1,6010C	LC
Copper, Total	23.8		mg/kg	0.852	0.220	2	05/03/18 21:23	05/04/18 14:17	EPA 3050B	1,6010C	LC
Iron, Total	24200		mg/kg	4.26	0.769	2	05/03/18 21:23	05/04/18 14:17	EPA 3050B	1,6010C	LC
Lead, Total	5.27		mg/kg	4.26	0.228	2	05/03/18 21:23	05/04/18 14:17	EPA 3050B	1,6010C	LC
Magnesium, Total	5520		mg/kg	8.52	1.31	2	05/03/18 21:23	05/04/18 14:17	EPA 3050B	1,6010C	LC
Manganese, Total	192		mg/kg	0.852	0.135	2	05/03/18 21:23	05/04/18 14:17	EPA 3050B	1,6010C	LC
Mercury, Total	ND		mg/kg	0.070	0.015	1	05/03/18 07:30	05/03/18 18:58	EPA 7471B	1,7471B	EA
Nickel, Total	21.0		mg/kg	2.13	0.206	2	05/03/18 21:23	05/04/18 14:17	EPA 3050B	1,6010C	LC
Potassium, Total	7810		mg/kg	213	12.3	2	05/03/18 21:23	05/04/18 14:17	EPA 3050B	1,6010C	LC
Selenium, Total	0.912	J	mg/kg	1.70	0.220	2	05/03/18 21:23	05/04/18 14:17	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.852	0.241	2	05/03/18 21:23	05/04/18 14:17	EPA 3050B	1,6010C	LC
Sodium, Total	127	J	mg/kg	170	2.68	2	05/03/18 21:23	05/04/18 14:17	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.70	0.268	2	05/03/18 21:23	05/04/18 14:17	EPA 3050B	1,6010C	LC
Vanadium, Total	36.6		mg/kg	0.852	0.173	2	05/03/18 21:23	05/04/18 14:17	EPA 3050B	1,6010C	LC
Zinc, Total	61.5		mg/kg	4.26	0.250	2	05/03/18 21:23	05/04/18 14:17	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	24		mg/kg	0.88	0.88	1		05/04/18 14:17	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-33
Client ID: TP-9B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 13:15
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	14500		mg/kg	8.95	2.42	2	05/03/18 21:23	05/04/18 14:21	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.47	0.340	2	05/03/18 21:23	05/04/18 14:21	EPA 3050B	1,6010C	LC
Arsenic, Total	0.590	J	mg/kg	0.895	0.186	2	05/03/18 21:23	05/04/18 14:21	EPA 3050B	1,6010C	LC
Barium, Total	150		mg/kg	0.895	0.156	2	05/03/18 21:23	05/04/18 14:21	EPA 3050B	1,6010C	LC
Beryllium, Total	0.206	J	mg/kg	0.447	0.030	2	05/03/18 21:23	05/04/18 14:21	EPA 3050B	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.895	0.088	2	05/03/18 21:23	05/04/18 14:21	EPA 3050B	1,6010C	LC
Calcium, Total	6690		mg/kg	8.95	3.13	2	05/03/18 21:23	05/04/18 14:21	EPA 3050B	1,6010C	LC
Chromium, Total	26.3		mg/kg	0.895	0.086	2	05/03/18 21:23	05/04/18 14:21	EPA 3050B	1,6010C	LC
Cobalt, Total	14.2		mg/kg	1.79	0.148	2	05/03/18 21:23	05/04/18 14:21	EPA 3050B	1,6010C	LC
Copper, Total	33.3		mg/kg	0.895	0.231	2	05/03/18 21:23	05/04/18 14:21	EPA 3050B	1,6010C	LC
Iron, Total	21600		mg/kg	4.47	0.808	2	05/03/18 21:23	05/04/18 14:21	EPA 3050B	1,6010C	LC
Lead, Total	12.5		mg/kg	4.47	0.240	2	05/03/18 21:23	05/04/18 14:21	EPA 3050B	1,6010C	LC
Magnesium, Total	7980		mg/kg	8.95	1.38	2	05/03/18 21:23	05/04/18 14:21	EPA 3050B	1,6010C	LC
Manganese, Total	211		mg/kg	0.895	0.142	2	05/03/18 21:23	05/04/18 14:21	EPA 3050B	1,6010C	LC
Mercury, Total	0.036	J	mg/kg	0.075	0.016	1	05/03/18 07:30	05/03/18 19:00	EPA 7471B	1,7471B	EA
Nickel, Total	20.8		mg/kg	2.24	0.216	2	05/03/18 21:23	05/04/18 14:21	EPA 3050B	1,6010C	LC
Potassium, Total	7500		mg/kg	224	12.9	2	05/03/18 21:23	05/04/18 14:21	EPA 3050B	1,6010C	LC
Selenium, Total	0.590	J	mg/kg	1.79	0.231	2	05/03/18 21:23	05/04/18 14:21	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.895	0.253	2	05/03/18 21:23	05/04/18 14:21	EPA 3050B	1,6010C	LC
Sodium, Total	182		mg/kg	179	2.82	2	05/03/18 21:23	05/04/18 14:21	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.79	0.282	2	05/03/18 21:23	05/04/18 14:21	EPA 3050B	1,6010C	LC
Vanadium, Total	42.5		mg/kg	0.895	0.182	2	05/03/18 21:23	05/04/18 14:21	EPA 3050B	1,6010C	LC
Zinc, Total	61.5		mg/kg	4.47	0.262	2	05/03/18 21:23	05/04/18 14:21	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	26		mg/kg	0.95	0.95	1		05/04/18 14:21	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-36
Client ID: TP-10A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 14:00
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12200		mg/kg	8.61	2.32	2	05/03/18 21:23	05/04/18 14:34	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.31	0.327	2	05/03/18 21:23	05/04/18 14:34	EPA 3050B	1,6010C	LC
Arsenic, Total	ND		mg/kg	0.861	0.179	2	05/03/18 21:23	05/04/18 14:34	EPA 3050B	1,6010C	LC
Barium, Total	137		mg/kg	0.861	0.150	2	05/03/18 21:23	05/04/18 14:34	EPA 3050B	1,6010C	LC
Beryllium, Total	0.189	J	mg/kg	0.431	0.028	2	05/03/18 21:23	05/04/18 14:34	EPA 3050B	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.861	0.084	2	05/03/18 21:23	05/04/18 14:34	EPA 3050B	1,6010C	LC
Calcium, Total	2780		mg/kg	8.61	3.01	2	05/03/18 21:23	05/04/18 14:34	EPA 3050B	1,6010C	LC
Chromium, Total	20.7		mg/kg	0.861	0.083	2	05/03/18 21:23	05/04/18 14:34	EPA 3050B	1,6010C	LC
Cobalt, Total	13.4		mg/kg	1.72	0.143	2	05/03/18 21:23	05/04/18 14:34	EPA 3050B	1,6010C	LC
Copper, Total	30.7		mg/kg	0.861	0.222	2	05/03/18 21:23	05/04/18 14:34	EPA 3050B	1,6010C	LC
Iron, Total	20600		mg/kg	4.31	0.778	2	05/03/18 21:23	05/04/18 14:34	EPA 3050B	1,6010C	LC
Lead, Total	19.9		mg/kg	4.31	0.231	2	05/03/18 21:23	05/04/18 14:34	EPA 3050B	1,6010C	LC
Magnesium, Total	5470		mg/kg	8.61	1.33	2	05/03/18 21:23	05/04/18 14:34	EPA 3050B	1,6010C	LC
Manganese, Total	195		mg/kg	0.861	0.137	2	05/03/18 21:23	05/04/18 14:34	EPA 3050B	1,6010C	LC
Mercury, Total	0.138		mg/kg	0.070	0.015	1	05/03/18 07:30	05/03/18 19:02	EPA 7471B	1,7471B	EA
Nickel, Total	19.4		mg/kg	2.15	0.208	2	05/03/18 21:23	05/04/18 14:34	EPA 3050B	1,6010C	LC
Potassium, Total	7150		mg/kg	215	12.4	2	05/03/18 21:23	05/04/18 14:34	EPA 3050B	1,6010C	LC
Selenium, Total	0.577	J	mg/kg	1.72	0.222	2	05/03/18 21:23	05/04/18 14:34	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.861	0.244	2	05/03/18 21:23	05/04/18 14:34	EPA 3050B	1,6010C	LC
Sodium, Total	136	J	mg/kg	172	2.71	2	05/03/18 21:23	05/04/18 14:34	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.72	0.271	2	05/03/18 21:23	05/04/18 14:34	EPA 3050B	1,6010C	LC
Vanadium, Total	30.8		mg/kg	0.861	0.175	2	05/03/18 21:23	05/04/18 14:34	EPA 3050B	1,6010C	LC
Zinc, Total	65.6		mg/kg	4.31	0.252	2	05/03/18 21:23	05/04/18 14:34	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	21		mg/kg	0.88	0.88	1		05/04/18 14:34	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-39
Client ID: TP-10B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/01/18 14:05
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	14200		mg/kg	8.77	2.37	2	05/03/18 21:23	05/04/18 14:39	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.38	0.333	2	05/03/18 21:23	05/04/18 14:39	EPA 3050B	1,6010C	LC
Arsenic, Total	0.974		mg/kg	0.877	0.182	2	05/03/18 21:23	05/04/18 14:39	EPA 3050B	1,6010C	LC
Barium, Total	152		mg/kg	0.877	0.153	2	05/03/18 21:23	05/04/18 14:39	EPA 3050B	1,6010C	LC
Beryllium, Total	0.246	J	mg/kg	0.438	0.029	2	05/03/18 21:23	05/04/18 14:39	EPA 3050B	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.877	0.086	2	05/03/18 21:23	05/04/18 14:39	EPA 3050B	1,6010C	LC
Calcium, Total	3550		mg/kg	8.77	3.07	2	05/03/18 21:23	05/04/18 14:39	EPA 3050B	1,6010C	LC
Chromium, Total	27.1		mg/kg	0.877	0.084	2	05/03/18 21:23	05/04/18 14:39	EPA 3050B	1,6010C	LC
Cobalt, Total	18.2		mg/kg	1.75	0.146	2	05/03/18 21:23	05/04/18 14:39	EPA 3050B	1,6010C	LC
Copper, Total	36.2		mg/kg	0.877	0.226	2	05/03/18 21:23	05/04/18 14:39	EPA 3050B	1,6010C	LC
Iron, Total	22000		mg/kg	4.38	0.792	2	05/03/18 21:23	05/04/18 14:39	EPA 3050B	1,6010C	LC
Lead, Total	30.8		mg/kg	4.38	0.235	2	05/03/18 21:23	05/04/18 14:39	EPA 3050B	1,6010C	LC
Magnesium, Total	6050		mg/kg	8.77	1.35	2	05/03/18 21:23	05/04/18 14:39	EPA 3050B	1,6010C	LC
Manganese, Total	244		mg/kg	0.877	0.139	2	05/03/18 21:23	05/04/18 14:39	EPA 3050B	1,6010C	LC
Mercury, Total	0.127		mg/kg	0.072	0.015	1	05/03/18 07:30	05/03/18 19:03	EPA 7471B	1,7471B	EA
Nickel, Total	21.6		mg/kg	2.19	0.212	2	05/03/18 21:23	05/04/18 14:39	EPA 3050B	1,6010C	LC
Potassium, Total	7430		mg/kg	219	12.6	2	05/03/18 21:23	05/04/18 14:39	EPA 3050B	1,6010C	LC
Selenium, Total	0.746	J	mg/kg	1.75	0.226	2	05/03/18 21:23	05/04/18 14:39	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.877	0.248	2	05/03/18 21:23	05/04/18 14:39	EPA 3050B	1,6010C	LC
Sodium, Total	170	J	mg/kg	175	2.76	2	05/03/18 21:23	05/04/18 14:39	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.75	0.276	2	05/03/18 21:23	05/04/18 14:39	EPA 3050B	1,6010C	LC
Vanadium, Total	40.1		mg/kg	0.877	0.178	2	05/03/18 21:23	05/04/18 14:39	EPA 3050B	1,6010C	LC
Zinc, Total	67.7		mg/kg	4.38	0.257	2	05/03/18 21:23	05/04/18 14:39	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	27		mg/kg	0.91	0.91	1		05/04/18 14:39	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 Batch: WG1112077-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	05/03/18 07:30	05/03/18 18:12	1,7471B	EA

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 Batch: WG1112408-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	05/03/18 21:23	05/04/18 12:51	1,6010C	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	05/03/18 21:23	05/04/18 12:51	1,6010C	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	05/03/18 21:23	05/04/18 12:51	1,6010C	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	05/03/18 21:23	05/04/18 12:51	1,6010C	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	05/03/18 21:23	05/04/18 12:51	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	05/03/18 21:23	05/04/18 12:51	1,6010C	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	05/03/18 21:23	05/04/18 12:51	1,6010C	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	05/03/18 21:23	05/04/18 12:51	1,6010C	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	05/03/18 21:23	05/04/18 12:51	1,6010C	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	05/03/18 21:23	05/04/18 12:51	1,6010C	LC
Iron, Total	1.43	J	mg/kg	2.00	0.361	1	05/03/18 21:23	05/04/18 12:51	1,6010C	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	05/03/18 21:23	05/04/18 12:51	1,6010C	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	05/03/18 21:23	05/04/18 12:51	1,6010C	LC
Manganese, Total	0.076	J	mg/kg	0.400	0.064	1	05/03/18 21:23	05/04/18 12:51	1,6010C	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	05/03/18 21:23	05/04/18 12:51	1,6010C	LC
Potassium, Total	ND		mg/kg	100	5.76	1	05/03/18 21:23	05/04/18 12:51	1,6010C	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	05/03/18 21:23	05/04/18 12:51	1,6010C	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	05/03/18 21:23	05/04/18 12:51	1,6010C	LC
Sodium, Total	1.97	J	mg/kg	80.0	1.26	1	05/03/18 21:23	05/04/18 12:51	1,6010C	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	05/03/18 21:23	05/04/18 12:51	1,6010C	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	05/03/18 21:23	05/04/18 12:51	1,6010C	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	05/03/18 21:23	05/04/18 12:51	1,6010C	LC

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815546

Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 Batch: WG1112077-2 SRM Lot Number: D098-540								
Mercury, Total	102		-		50-149	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815546

Report Date: 05/08/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 Batch: WG1112408-2 SRM Lot Number: D098-540					
Aluminum, Total	74	-	47-153	-	
Antimony, Total	190	-	6-194	-	
Arsenic, Total	110	-	83-117	-	
Barium, Total	100	-	82-118	-	
Beryllium, Total	110	-	83-117	-	
Cadmium, Total	109	-	82-117	-	
Calcium, Total	98	-	81-118	-	
Chromium, Total	105	-	83-119	-	
Cobalt, Total	112	-	84-116	-	
Copper, Total	111	-	84-116	-	
Iron, Total	96	-	60-140	-	
Lead, Total	108	-	82-117	-	
Magnesium, Total	87	-	76-124	-	
Manganese, Total	103	-	82-118	-	
Nickel, Total	111	-	82-117	-	
Potassium, Total	89	-	69-131	-	
Selenium, Total	117	-	78-121	-	
Silver, Total	112	-	80-120	-	
Sodium, Total	108	-	74-126	-	
Thallium, Total	113	-	80-119	-	
Vanadium, Total	104	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815546

Report Date: 05/08/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 Batch: WG1112408-2 SRM Lot Number: D098-540					
Zinc, Total	110	-	81-119	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 QC Batch ID: WG1112077-3 QC Sample: L1815505-01 Client ID: MS Sample												
Mercury, Total	ND	0.146	0.172	118		-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 QC Batch ID: WG1112408-3 QC Sample: L1815505-01 Client ID: MS Sample										
Aluminum, Total	379.	180	1220	**468**	Q	-	-	75-125	-	20
Antimony, Total	ND	44.9	36.6	81		-	-	75-125	-	20
Arsenic, Total	3.87	10.8	12.4	79		-	-	75-125	-	20
Barium, Total	4.67	180	177	96		-	-	75-125	-	20
Beryllium, Total	0.316	4.49	4.72	98		-	-	75-125	-	20
Cadmium, Total	0.076J	4.58	4.60	100		-	-	75-125	-	20
Calcium, Total	202.	898	1130	103		-	-	75-125	-	20
Chromium, Total	6.05	18	28.2	123		-	-	75-125	-	20
Cobalt, Total	8.87	44.9	51.4	95		-	-	75-125	-	20
Copper, Total	6.39	22.5	26.5	90		-	-	75-125	-	20
Iron, Total	2260	89.8	4550	**2550**	Q	-	-	75-125	-	20
Lead, Total	3.97	45.8	45.9	92		-	-	75-125	-	20
Magnesium, Total	69.7	898	870	89		-	-	75-125	-	20
Manganese, Total	153.	44.9	299	**325**	Q	-	-	75-125	-	20
Nickel, Total	2.59	44.9	43.2	90		-	-	75-125	-	20
Potassium, Total	61.3J	898	971	108		-	-	75-125	-	20
Selenium, Total	ND	10.8	8.42	78		-	-	75-125	-	20
Silver, Total	ND	27	27.0	100		-	-	75-125	-	20
Sodium, Total	46.9J	898	1000	111		-	-	75-125	-	20
Thallium, Total	ND	10.8	8.70	81		-	-	75-125	-	20
Vanadium, Total	9.69	44.9	56.9	105		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 QC Batch ID: WG1112408-3 QC Sample: L1815505-01 Client ID: MS Sample									
Zinc, Total	10.4	44.9	57.5	105	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 QC Batch ID: WG1112077-4 QC Sample: L1815505-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 05,09,12,15,18,21,24,27,30,33,36,39 QC Batch ID: WG1112408-4 QC Sample: L1815505-01 Client ID: DUP Sample						
Arsenic, Total	3.87	2.82	mg/kg	**31**	Q	20
Barium, Total	4.67	6.73	mg/kg	**36**	Q	20
Cadmium, Total	0.076J	0.197J	mg/kg	NC		20
Chromium, Total	6.05	13.1	mg/kg	**74**	Q	20
Lead, Total	3.97	6.88	mg/kg	**54**	Q	20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-01
Client ID: TP-1A_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/01/18 07:25
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.7		%	0.100	NA	1	-	05/03/18 09:24	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-02
Client ID: TP-1A_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/01/18 07:35
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.3		%	0.100	NA	1	-	05/03/18 09:24	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-03
Client ID: TP-1A_GRAB-3
Sample Location: YONKERS, NY

Date Collected: 05/01/18 07:40
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.6		%	0.100	NA	1	-	05/03/18 09:24	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-04
Client ID: TP-1A_GRAB-4
Sample Location: YONKERS, NY

Date Collected: 05/01/18 07:45
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.5		%	0.100	NA	1	-	05/03/18 09:24	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-05
Client ID: TP-1A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 07:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.1		%	0.100	NA	1	-	05/03/18 03:01	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/02/18 07:15	05/02/18 11:02	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.898	0.180	1	05/03/18 01:10	05/03/18 15:17	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-06
Client ID: TP-1B_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/01/18 08:05
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.5		%	0.100	NA	1	-	05/03/18 09:24	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-07
Client ID: TP-1B_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/01/18 08:10
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.3		%	0.100	NA	1	-	05/03/18 09:24	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-08
Client ID: TP-1B_GRAB-3
Sample Location: YONKERS, NY

Date Collected: 05/01/18 08:15
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.8		%	0.100	NA	1	-	05/03/18 09:24	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-09
Client ID: TP-1B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 08:25
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.8		%	0.100	NA	1	-	05/03/18 03:01	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.1	0.24	1	05/02/18 11:25	05/02/18 14:19	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.911	0.182	1	05/03/18 01:10	05/03/18 15:17	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-10
Client ID: TP-3_GRAB-1
Sample Location: YONKERS, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/01/18 08:40
Date Received: 05/01/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6		%	0.100	NA	1	-	05/03/18 09:24	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-11
Client ID: TP-3_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/01/18 08:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.0		%	0.100	NA	1	-	05/03/18 09:24	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-12
Client ID: TP-3_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 09:00
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.9		%	0.100	NA	1	-	05/03/18 03:01	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/02/18 11:25	05/02/18 14:21	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.910	0.182	1	05/03/18 01:10	05/03/18 15:17	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-13
Client ID: TP-4_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/01/18 09:30
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.8		%	0.100	NA	1	-	05/03/18 09:24	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-14
Client ID: TP-4_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/01/18 09:40
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.3		%	0.100	NA	1	-	05/03/18 09:24	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-15
Client ID: TP-4_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 09:45
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	05/03/18 03:01	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/02/18 13:50	05/02/18 16:22	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.917	0.183	1	05/03/18 01:10	05/03/18 15:17	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-16
Client ID: TP-5A_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/01/18 10:20
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.8		%	0.100	NA	1	-	05/03/18 09:24	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-17
Client ID: TP-5A_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/01/18 10:30
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.6		%	0.100	NA	1	-	05/03/18 09:24	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-18
Client ID: TP-5A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 10:45
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.7		%	0.100	NA	1	-	05/03/18 03:01	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/02/18 13:50	05/02/18 16:25	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.882	0.176	1	05/03/18 01:10	05/03/18 15:17	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-19
Client ID: TP-5B_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/01/18 10:25
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.6		%	0.100	NA	1	-	05/03/18 09:24	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-20
Client ID: TP-5B_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/01/18 10:35
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.5		%	0.100	NA	1	-	05/03/18 09:24	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-21
Client ID: TP-5B_COMP
Sample Location: YONKERS, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/01/18 10:50
Date Received: 05/01/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.6		%	0.100	NA	1	-	05/03/18 03:01	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.1	0.24	1	05/02/18 13:50	05/02/18 16:26	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.913	0.183	1	05/03/18 01:10	05/03/18 15:17	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-22
Client ID: TP-6_GRAB-1
Sample Location: YONKERS, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/01/18 11:05
Date Received: 05/01/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.3		%	0.100	NA	1	-	05/03/18 09:49	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-23
Client ID: TP-6_GRAB-2
Sample Location: YONKERS, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/01/18 11:15
Date Received: 05/01/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.7		%	0.100	NA	1	-	05/03/18 09:49	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-24
Client ID: TP-6_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 11:25
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.9		%	0.100	NA	1	-	05/03/18 03:01	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/02/18 13:50	05/02/18 16:27	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.910	0.182	1	05/03/18 01:10	05/03/18 15:17	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-25
Client ID: TP-8_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/01/18 11:40
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.6		%	0.100	NA	1	-	05/03/18 09:49	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-26
Client ID: TP-8_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/01/18 11:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.0		%	0.100	NA	1	-	05/03/18 09:49	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-27
Client ID: TP-8_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 11:55
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6		%	0.100	NA	1	-	05/03/18 03:21	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/02/18 13:50	05/02/18 16:30	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.903	0.180	1	05/03/18 01:10	05/03/18 15:17	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-28
Client ID: TP-9A_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/01/18 12:10
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.8		%	0.100	NA	1	-	05/03/18 09:49	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-29
Client ID: TP-9A_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/01/18 12:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.2		%	0.100	NA	1	-	05/03/18 09:49	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-30
Client ID: TP-9A_COMP
Sample Location: YONKERS, NY
Sample Depth:
Matrix: Soil
Date Collected: 05/01/18 13:10
Date Received: 05/01/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.9		%	0.100	NA	1	-	05/03/18 03:21	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.0	0.21	1	05/02/18 13:50	05/02/18 16:31	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.880	0.176	1	05/03/18 01:10	05/03/18 15:17	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-31
Client ID: TP-9B_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/01/18 12:55
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.6		%	0.100	NA	1	-	05/03/18 03:21	121,2540G	FN

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-32
Client ID: TP-9B_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/01/18 13:00
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.5		%	0.100	NA	1	-	05/03/18 03:21	121,2540G	FN

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-33
Client ID: TP-9B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 13:15
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.1		%	0.100	NA	1	-	05/03/18 03:21	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.1	0.24	1	05/02/18 13:50	05/02/18 16:32	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.951	0.190	1	05/03/18 01:10	05/03/18 15:17	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-34
Client ID: TP-10A_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/01/18 13:30
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.2		%	0.100	NA	1	-	05/03/18 09:49	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-35
Client ID: TP-10A_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/01/18 13:35
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.5		%	0.100	NA	1	-	05/03/18 09:49	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-36
Client ID: TP-10A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/01/18 14:00
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.7		%	0.100	NA	1	-	05/03/18 03:21	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/02/18 13:50	05/02/18 16:33	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.882	0.176	1	05/03/18 01:10	05/03/18 15:17	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-37
Client ID: TP-10B_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/01/18 13:40
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.1		%	0.100	NA	1	-	05/03/18 03:21	121,2540G	FN

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-38
Client ID: TP-10B_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/01/18 13:50
Date Received: 05/01/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	05/03/18 03:21	121,2540G	FN

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

SAMPLE RESULTS

Lab ID: L1815546-39
Client ID: TP-10B_COMP
Sample Location: YONKERS, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/01/18 14:05
Date Received: 05/01/18
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.5		%	0.100	NA	1	-	05/03/18 03:21	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/02/18 13:50	05/02/18 16:34	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.914	0.183	1	05/03/18 01:10	05/03/18 15:17	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815546
Report Date: 05/08/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 05 Batch: WG1111686-1										
Cyanide, Total	ND		mg/kg	0.99	0.21	1	05/02/18 07:15	05/02/18 10:45	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 09,12 Batch: WG1111754-1										
Cyanide, Total	ND		mg/kg	0.85	0.18	1	05/02/18 11:25	05/02/18 14:03	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 15,18,21,24,27,30,33,36,39 Batch: WG1111815-1										
Cyanide, Total	ND		mg/kg	0.85	0.18	1	05/02/18 13:50	05/02/18 16:17	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 05,09,12,15,18,21,24,27,30,33 Batch: WG1112038-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	05/03/18 01:10	05/03/18 15:17	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 36,39 Batch: WG1112041-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	05/03/18 01:10	05/03/18 15:17	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815546

Report Date: 05/08/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05 Batch: WG1111686-2 WG1111686-3								
Cyanide, Total	**42**	Q	**57**	Q	80-120	33		35
General Chemistry - Westborough Lab Associated sample(s): 09,12 Batch: WG1111754-2 WG1111754-3								
Cyanide, Total	80		**79**	Q	80-120	0		35
General Chemistry - Westborough Lab Associated sample(s): 15,18,21,24,27,30,33,36,39 Batch: WG1111815-2 WG1111815-3								
Cyanide, Total	**79**	Q	**78**	Q	80-120	0		35
General Chemistry - Westborough Lab Associated sample(s): 05,09,12,15,18,21,24,27,30,33 Batch: WG1112038-2								
Chromium, Hexavalent	85		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 36,39 Batch: WG1112041-2								
Chromium, Hexavalent	85		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1111686-4 WG1111686-5 QC Sample: L1815538-01 Client ID: MS Sample												
Cyanide, Total	ND	12	11	95		11	100		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 09,12 QC Batch ID: WG1111754-4 WG1111754-5 QC Sample: L1812555-09 Client ID: MS Sample												
Cyanide, Total	ND	12	10	80		12	94		75-125	18		35
General Chemistry - Westborough Lab Associated sample(s): 15,18,21,24,27,30,33,36,39 QC Batch ID: WG1111815-4 WG1111815-5 QC Sample: L1815546-15 Client ID: TP-4_COMP												
Cyanide, Total	ND	10	8.9	84		9.2	84		75-125	3		35
General Chemistry - Westborough Lab Associated sample(s): 05,09,12,15,18,21,24,27,30,33 QC Batch ID: WG1112038-4 QC Sample: L1815546-12 Client ID: TP-3_COMP												
Chromium, Hexavalent	ND	820	764	93		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 36,39 QC Batch ID: WG1112041-4 QC Sample: L1815546-39 Client ID: TP-10B_COMP												
Chromium, Hexavalent	ND	1040	986	95		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05,09,12,15,18,21,24,27,30,33 QC Batch ID: WG1112038-6 QC Sample: L1815546-12 Client ID: TP-3_COMP						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 36,39 QC Batch ID: WG1112041-6 QC Sample: L1815546-39 Client ID: TP-10B_COMP						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 05,09,12,15,18,21,24 QC Batch ID: WG1112060-1 QC Sample: L1815546-05 Client ID: TP-1A_COMP						
Solids, Total	89.1	87.5	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 27,30-33,36-39 QC Batch ID: WG1112068-1 QC Sample: L1815546-27 Client ID: TP-8_COMP						
Solids, Total	88.6	89.5	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-04,06-08,10-11,13-14,16-17,19-20 QC Batch ID: WG1112177-1 QC Sample: L1815546-01 Client ID: TP-1A_GRAB-1						
Solids, Total	87.7	87.6	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 22-23,25-26,28-29,34-35 QC Batch ID: WG1112181-1 QC Sample: L1815610-01 Client ID: DUP Sample						
Solids, Total	85.0	85.2	%	0		20

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815546-01A	Vial MeOH preserved	B	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1815546-01B	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-01C	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-01D	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L1815546-02A	Vial MeOH preserved	B	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1815546-02B	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-02C	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-02D	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L1815546-03A	Vial MeOH preserved	B	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1815546-03B	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-03C	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-03D	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L1815546-04A	Vial MeOH preserved	B	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1815546-04B	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-04C	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-04D	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L1815546-05A	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L1815546-05B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815546-05C	Glass 120ml/4oz unpreserved	B	NA		2.2	Y	Absent		TCN-9010(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815546-05D	Glass 500ml/16oz unpreserved	B	NA		2.2	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1815546-06A	Vial MeOH preserved	B	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1815546-06B	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-06C	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-06D	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L1815546-07A	Vial MeOH preserved	B	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1815546-07B	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-07C	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-07D	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L1815546-08A	Vial MeOH preserved	B	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1815546-08B	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-08C	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-08D	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L1815546-09A	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L1815546-09B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815546-09C	Glass 120ml/4oz unpreserved	B	NA		2.2	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1815546-09D	Glass 500ml/16oz unpreserved	B	NA		2.2	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1815546-10A	Vial MeOH preserved	B	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1815546-10B	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-10C	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-10D	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L1815546-11A	Vial MeOH preserved	B	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1815546-11B	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-11C	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-11D	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815546-12A	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L1815546-12B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815546-12C	Glass 120ml/4oz unpreserved	B	NA		2.2	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1815546-12D	Glass 500ml/16oz unpreserved	B	NA		2.2	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1815546-13A	Vial MeOH preserved	B	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1815546-13B	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-13C	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-13D	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L1815546-14A	Vial MeOH preserved	B	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1815546-14B	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-14C	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-14D	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L1815546-15A	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L1815546-15B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815546-15C	Glass 120ml/4oz unpreserved	B	NA		2.2	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1815546-15D	Glass 500ml/16oz unpreserved	B	NA		2.2	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1815546-16A	Vial MeOH preserved	B	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1815546-16B	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-16C	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-16D	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L1815546-17A	Vial MeOH preserved	B	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1815546-17B	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-17C	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815546-17D	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L1815546-18A	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L1815546-18B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815546-18C	Glass 120ml/4oz unpreserved	B	NA		2.2	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1815546-18D	Glass 500ml/16oz unpreserved	B	NA		2.2	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1815546-19A	Vial MeOH preserved	B	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1815546-19B	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-19C	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:11	NYTCL-8260HLW(14)
L1815546-19D	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L1815546-20A	Vial MeOH preserved	B	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1815546-20B	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:11	NYTCL-8260HLW(14)
L1815546-20C	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:11	NYTCL-8260HLW(14)
L1815546-20D	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L1815546-21A	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L1815546-21B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815546-21C	Glass 120ml/4oz unpreserved	B	NA		2.2	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1815546-21D	Glass 500ml/16oz unpreserved	B	NA		2.2	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1815546-22A	Vial MeOH preserved	B	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1815546-22B	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:11	NYTCL-8260HLW(14)
L1815546-22C	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:11	NYTCL-8260HLW(14)
L1815546-22D	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L1815546-23A	Vial MeOH preserved	B	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1815546-23B	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:11	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815546
Report Date: 05/08/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815546-23C	Vial water preserved	B	NA		2.2	Y	Absent	02-MAY-18 05:11	NYTCL-8260HLW(14)
L1815546-23D	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L1815546-24A	Plastic 2oz unpreserved for TS	B	NA		2.2	Y	Absent		TS(7)
L1815546-24B	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815546-24C	Glass 120ml/4oz unpreserved	B	NA		2.2	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1815546-24D	Glass 500ml/16oz unpreserved	B	NA		2.2	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1815546-25A	Vial MeOH preserved	A	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1815546-25B	Vial water preserved	A	NA		3.8	Y	Absent	02-MAY-18 05:11	NYTCL-8260HLW(14)
L1815546-25C	Vial water preserved	A	NA		3.8	Y	Absent	02-MAY-18 05:11	NYTCL-8260HLW(14)
L1815546-25D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1815546-26A	Vial MeOH preserved	A	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1815546-26B	Vial water preserved	A	NA		3.8	Y	Absent	02-MAY-18 05:11	NYTCL-8260HLW(14)
L1815546-26C	Vial water preserved	A	NA		3.8	Y	Absent	02-MAY-18 05:11	NYTCL-8260HLW(14)
L1815546-26D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1815546-27A	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1815546-27B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815546-27C	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1815546-27D	Glass 500ml/16oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1815546-28A	Vial MeOH preserved	A	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1815546-28B	Vial water preserved	A	NA		3.8	Y	Absent	02-MAY-18 05:11	NYTCL-8260HLW(14)
L1815546-28C	Vial water preserved	A	NA		3.8	Y	Absent	02-MAY-18 05:11	NYTCL-8260HLW(14)
L1815546-28D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1815546-29A	Vial MeOH preserved	A	NA		3.8	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815546-29B	Vial water preserved	A	NA		3.8	Y	Absent	02-MAY-18 05:11	NYTCL-8260HLW(14)
L1815546-29C	Vial water preserved	A	NA		3.8	Y	Absent	02-MAY-18 05:11	NYTCL-8260HLW(14)
L1815546-29D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1815546-30A	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1815546-30B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815546-30C	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1815546-30D	Glass 500ml/16oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1815546-31A	Vial MeOH preserved	A	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1815546-31B	Vial water preserved	A	NA		3.8	Y	Absent	02-MAY-18 05:11	NYTCL-8260HLW(14)
L1815546-31C	Vial water preserved	A	NA		3.8	Y	Absent	02-MAY-18 05:11	NYTCL-8260HLW(14)
L1815546-31D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1815546-32A	Vial MeOH preserved	A	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1815546-32B	Vial water preserved	A	NA		3.8	Y	Absent	02-MAY-18 05:11	NYTCL-8260HLW(14)
L1815546-32C	Vial water preserved	A	NA		3.8	Y	Absent	02-MAY-18 05:11	NYTCL-8260HLW(14)
L1815546-32D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1815546-33A	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1815546-33B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815546-33C	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1815546-33D	Glass 500ml/16oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1815546-34A	Vial MeOH preserved	A	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1815546-34B	Vial water preserved	A	NA		3.8	Y	Absent	02-MAY-18 05:11	NYTCL-8260HLW(14)
L1815546-34C	Vial water preserved	A	NA		3.8	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-34D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815546-35A	Vial MeOH preserved	A	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1815546-35B	Vial water preserved	A	NA		3.8	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-35C	Vial water preserved	A	NA		3.8	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-35D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1815546-36A	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1815546-36B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815546-36C	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1815546-36D	Glass 500ml/16oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1815546-37A	Vial MeOH preserved	A	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1815546-37B	Vial water preserved	A	NA		3.8	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-37C	Vial water preserved	A	NA		3.8	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-37D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1815546-38A	Vial MeOH preserved	A	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L1815546-38B	Vial water preserved	A	NA		3.8	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-38C	Vial water preserved	A	NA		3.8	Y	Absent	02-MAY-18 05:13	NYTCL-8260HLW(14)
L1815546-38D	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1815546-39A	Plastic 2oz unpreserved for TS	A	NA		3.8	Y	Absent		TS(7)
L1815546-39B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815546-39C	Glass 120ml/4oz unpreserved	A	NA		3.8	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1815546-39D	Glass 500ml/16oz unpreserved	A	NA		3.8	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1815546-40A	Vial HCl preserved	A	NA		3.8	Y	Absent		NYTCL-8260(14)
L1815546-40B	Vial HCl preserved	A	NA		3.8	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	FORMER BICC	**Lab Number:**	L1815546
Project Number:	056970006	**Report Date:**	05/08/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER BICC	**Lab Number:**	L1815546
Project Number:	056970006	**Report Date:**	05/08/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER BICC	**Lab Number:**	L1815546
Project Number:	056970006	**Report Date:**	05/08/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 4

Date Rec'd in Lab: 5/1/18

ALPHA Job # L1818546

Project Information
Project Name: Former BICC
Project Location: Yonkers, NY
Project # 05697000b
(Use Project name as Project #)
Project Manager: Scott Caporizzo (203-253-4015)
ALPHAQuote #:

Turn Around Time
Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

Client Information
Client: PS&S Engineering, Inc
Address: 1 Larkin Plaza 2nd Floor
Yonkers, NY 10701
Phone: 914 509 8800
Fax:
Email: scaporizzo@psands.com

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

Please specify Metals or TAL.

Deliverables
[ ] ASP-A [X] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Regulatory Requirement
[ ] NY TOGS [X] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[X] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Billing Information
[ ] Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TS - SM 2540	NYTCL - 8260	Metals 6020/7471	Herbicides EPA 7196	Pest./Herb./TCN	PCB, Tri Cr	NYC Tet NYTCL-8270	Total Bottles
L1818546-01	TP-1A_Grab-1	5/1/18	0735	Soil	ES	X	X						4
-02	TP-1A_Grab-2		0735			X	X						
-03	TP-1A_Grab-3		0740			X	X						
-04	TP-1A_Grab-4		0745			X	X						
-05	TP-1A_Comp		0750			X		X	X	X	X	X	
-06	TP-1B_Grab-1		0805			X	X						
-07	TP-1B_Grab-2		0810			X	X						
-08	TP-1B_Grab-3		0815			X	X						
-09	TP-1B_Comp		0825			X		X	X	X	X	X	
-10	TP-3_Grab-1		0840			X	X						

Container Type	P	V	A	A	A	A	A		
Preservative	A	1-F 2-H_2O	A	A	A	A	A		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	5/1/18 1445	[signature] AAL	5/1 1445
[signature]	5/1 1724	[signature] AAL	5/1/18 1800
Dania Santos AAL	5/1/18 2300	[signature]	5/1/18 2300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 4

Date Rec'd in Lab: 5/1/18

ALPHA Job #: L1815510

Project Information
Project Name: Former BICC
Project Location: Yonkers, NY
Project #: 05697000b
(Use Project name as Project #) ☐
Project Manager: Scott Caporizzo (203-358-4015
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Client Information
Client: PSRS Engineering, Inc
Address: 1 Larkin Plaza 3rd Floor
Yonkers, NY 10701
Phone: 914-509-8600
Fax:
Email: scaporizzo@psrsds.com

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☒ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☒ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TS-SM2540	NYTCL-8260	Metals 6010/7g	Hex Cr EPA 7196	Pests/Herb/TCN	PCB, Tri Cr	NYTCL-8270	Sample Specific Comments
1554611	TP-3_Grab-2	5/1/18	0850	Soil	ES	X	X						
-12	TP-3_Comp		0900			X		X	X	X	X	X	
-13	TP-4_Grab-1		0930			X	X						
-14	TP-4_Grab-2		0940			X	X						
-15	TP-4_Grab Comp		0945			X		X	X	X	X	X	
-16	TP-5A_Grab-1		1020			X	X						
-17	TP-5A_Grab-2		1030			X	X						
-18	TP-5A_Comp		1045			X		X	X	X	X	X	
-19	TP-5B_Grab-1		1025			X	X						
-20	TP-5B_Grab-2		1035			X	X						

Container Type: P V A A A A A
Preservative: A 1-F 2-H2O A A A A A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	5/1/18 1445		5/1 1445
	5/1 1724	Daniel Santos TAL	5/1/18 1800
Daniel Santos TAL	5/1/18 2300		5/1/18 2300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 3 of 4

5/1/18

L-18-155416

Client Information
Client: PSRS Engineering, Inc
Address: 1 Larkin Plaza 2nd Floor
Yonkers, NY 10701
Phone: 914-509-8600
Fax:
Email: SCaporizzo@PSandS.com

Project Information
Project Name: Former BICC
Project Location: Yonkers, NY
Project # ~~0596~~ 05897000b
(Use Project name as Project #) ☐
Project Manager: Scott Caporizzo (203-252-4015)
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☒ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☒ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TS - SM 2540	NYTCL-8260	Metals 6020/1ig	Hex Cr EPA 7196	Pests/Herbs/TCN	PCB_TriCr	NYTCL-8270	Sample Specific Comments
15546-21	TP-5B_Comp	5/1/18	1050	Soil	ES	X		X	X	X	X	X	
-22	TP-6_Grab-1		1105			X	X						
-23	TP-6_Grab-2		1115			X	X						
-24	TP-6_Comp		1125			X		X	X	X	X	X	
-25	TP-8_Grab-1		1140			X	X						
-26	TP-8_Grab-2		1150			X	X						
-27	TP-8_Comp		1155			X		X	X	X	X	X	
-28	TP-9A_Grab-1		1310			X	X						
-29	TP-9A_Grab-2		1350			X	X						
-30	TP-9A_Comp	↓	1310	↓	↓	X		X	X	X	X	X	

Total Bottles: 4

Container Type	P	V	A	A	A	A	A		
Preservative	A	1-F 3-H2O	A	A	A	A	A		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	5/1/18 1445		5/1 1445
	5/1 1724	Daniel Santos AAL	5/1/18 1800
Daniel Santos AAL	5/1/18 2300		5/1/18 2300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 4 of 4

Date Rec'd in Lab: 5/1/18

ALPHA Job #: L1815346

Client Information
Client: PS&S Engineering, Inc
Address: 1 Larkin Plaza 2nd Floor
Yonkers, NY 10701
Phone: 914-509-8800
Fax:
Email: scaporizzo@psands.com

Project Information
Project Name: Former BICC
Project Location: Yonkers, NY
Project #: 05697000b
(Use Project name as Project #)
Project Manager: Scott Caporizzo (203-252-4015)
ALPHAQuote #:

Turn-Around Time
Standard: X
Rush (only if pre approved):
Due Date:
# of Days:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL

Deliverables
- ASP-A
- X ASP-B
- EQuIS (1 File)
- EQuIS (4 File)
- Other

Regulatory Requirement
- NY TOGS
- X NY Part 375
- AWQ Standards
- NY CP-51
- X NY Restricted Use
- Other
- NY Unrestricted Use
- NYC Sewer Discharge

Billing Information
- Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
- NJ
- NY
- Other:

Sample Filtration
- Done
- Lab to do

Preservation
- Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TS-SM 2540	NYTCL-8260	Metals 6020/7471	Hex Cr EPA 7196	Pests/PCBs/TCN	PCB, Tri Cr	NYTCL-8270	TB-2	Sample Specific Comments
L1815346-31	TP-9B_Grab-1	5/1/18	1255	Soil	ES	X	X							
-32	TP-9B_Grab-2		1300			X	X							
-33	TP-9B_Comp		1315			X		X	X	X	X	X		
-34	TP-10A_Grab-1		1330			X	X							
-35	TP-10A_Grab-2		1335			X	X							
-36	TP-10A_Comp		1400			X		X	X	X	X	X		
-37	TP-10B_Grab-1		1340			X	X							
-38	TP-10B_Grab-2		1350			X	X							
-39	TP-10B_Comp		1405			X		X	X	X	X	X		
-40	TB-2	5/1/18	—	Water	BJ								X	

Total Bottles: 4 / 2

Container Type	P	V	A	A	A	A	A	V
Preservative	A	1-F 2-C 3-H2O	A	A	A	A	A	B

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	5/1/18 1445	Jackson MAL	5/1 1445
	5/1 1724	Daniel Santos AAL	5/1/18 1800
Daniel Santos AAL	5/1/18 2300		5/1/18 2300

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Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1815750
Client:	PS&S Engineering, Inc. 1 Larkin Plaza Second Floor Yonkers, NY 10701
ATTN:	Scott Caporizzo
Phone:	(914) 266-3722
Project Name:	FORMER BICC
Project Number:	056970006
Report Date:	05/09/18

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1815750-01	TP-11A_GRAB-1	SOIL	YONKERS, NY	05/02/18 07:25	05/02/18
L1815750-02	TP-11A_GRAB-2	SOIL	YONKERS, NY	05/02/18 07:30	05/02/18
L1815750-03	TP-11A_COMP	SOIL	YONKERS, NY	05/02/18 07:55	05/02/18
L1815750-04	TP-11B_GRAB-1	SOIL	YONKERS, NY	05/02/18 07:35	05/02/18
L1815750-05	TP-11B_GRAB-2	SOIL	YONKERS, NY	05/02/18 07:40	05/02/18
L1815750-06	TP-11B_COMP	SOIL	YONKERS, NY	05/02/18 08:00	05/02/18
L1815750-07	TP-13A_GRAB-1	SOIL	YONKERS, NY	05/02/18 08:25	05/02/18
L1815750-08	TP-13A_GRAB-2	SOIL	YONKERS, NY	05/02/18 08:30	05/02/18
L1815750-09	TP-13A_COMP	SOIL	YONKERS, NY	05/02/18 08:55	05/02/18
L1815750-10	TP-13B_GRAB-1	SOIL	YONKERS, NY	05/02/18 08:35	05/02/18
L1815750-11	TP-13B_GRAB-2	SOIL	YONKERS, NY	05/02/18 08:40	05/02/18
L1815750-12	TP-13B_COMP	SOIL	YONKERS, NY	05/02/18 09:00	05/02/18
L1815750-13	TP-15A_GRAB-1	SOIL	YONKERS, NY	05/02/18 09:20	05/02/18
L1815750-14	TP-15A_GRAB-2	SOIL	YONKERS, NY	05/02/18 09:25	05/02/18
L1815750-15	TP-15A_COMP	SOIL	YONKERS, NY	05/02/18 09:50	05/02/18
L1815750-16	TP-15B_GRAB-1	SOIL	YONKERS, NY	05/02/18 09:35	05/02/18
L1815750-17	TP-15B_GRAB-2	SOIL	YONKERS, NY	05/02/18 09:40	05/02/18
L1815750-18	TP-15B_COMP	SOIL	YONKERS, NY	05/02/18 09:55	05/02/18
L1815750-19	TP-16_GRAB-1	SOIL	YONKERS, NY	05/02/18 10:20	05/02/18
L1815750-20	TP-16_GRAB-2	SOIL	YONKERS, NY	05/02/18 10:25	05/02/18
L1815750-21	TP-16_COMP	SOIL	YONKERS, NY	05/02/18 10:35	05/02/18
L1815750-22	TP-17A_GRAB-1	SOIL	YONKERS, NY	05/02/18 11:25	05/02/18
L1815750-23	TP-17A_GRAB-2	SOIL	YONKERS, NY	05/02/18 11:30	05/02/18
L1815750-24	TP-17A_COMP	SOIL	YONKERS, NY	05/02/18 11:50	05/02/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1815750-25	TP-17B_GRAB-1	SOIL	YONKERS, NY	05/02/18 11:35	05/02/18
L1815750-26	TP-17B_GRAB-2	SOIL	YONKERS, NY	05/02/18 11:40	05/02/18
L1815750-27	TP-17B_COMP	SOIL	YONKERS, NY	05/02/18 11:55	05/02/18
L1815750-28	TP-18A_GRAB-1	SOIL	YONKERS, NY	05/02/18 12:15	05/02/18
L1815750-29	TP-18A_GRAB-2	SOIL	YONKERS, NY	05/02/18 12:20	05/02/18
L1815750-30	TP-18A_COMP	SOIL	YONKERS, NY	05/02/18 12:45	05/02/18
L1815750-31	TP-18B_GRAB-1	SOIL	YONKERS, NY	05/02/18 12:30	05/02/18
L1815750-32	TP-18B_GRAB-2	SOIL	YONKERS, NY	05/02/18 12:35	05/02/18
L1815750-33	TP-18B_COMP	SOIL	YONKERS, NY	05/02/18 12:50	05/02/18
L1815750-34	TP-19A_GRAB-1	SOIL	YONKERS, NY	05/02/18 13:30	05/02/18
L1815750-35	TP-19A_GRAB-2	SOIL	YONKERS, NY	05/02/18 13:35	05/02/18
L1815750-36	TP-19A_COMP	SOIL	YONKERS, NY	05/02/18 13:55	05/02/18
L1815750-37	TP-19B_GRAB-1	SOIL	YONKERS, NY	05/02/18 13:40	05/02/18
L1815750-38	TP-19B_GRAB-2	SOIL	YONKERS, NY	05/02/18 13:45	05/02/18
L1815750-39	TP-19B_COMP	SOIL	YONKERS, NY	05/02/18 14:00	05/02/18
L1815750-40	TP-21_GRAB-1	SOIL	YONKERS, NY	05/02/18 14:15	05/02/18
L1815750-41	TP-21_GRAB-2	SOIL	YONKERS, NY	05/02/18 14:20	05/02/18
L1815750-42	TP-21_COMP	SOIL	YONKERS, NY	05/02/18 14:30	05/02/18
L1815750-43	TP-X_050218-G	SOIL	YONKERS, NY	05/02/18 00:00	05/02/18
L1815750-44	TPX-_050218-C	SOIL	YONKERS, NY	05/02/18 00:00	05/02/18
L1815750-45	FB01	WATER	YONKERS, NY	05/02/18 15:15	05/02/18

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	FORMER BICC	**Lab Number:**	L1815750
Project Number:	056970006	**Report Date:**	05/09/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L1815750-01, -05, and -34: The surrogate recovery for 1,2-dichloroethane-d4 (151%, 138%, and 132%, respectively) is outside the acceptance criteria; however, since the sample was non-detect for all target analytes associated with this surrogate, re-analysis was not required.

L1815750-45: The Field Blank has a result for acetone present above the reporting limit. The sample was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

Total Metals

L1815750-03, -06, -09, -12, -15, -18, -21, -24, -27, -30, -33, -36, -39, -42, and -44: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1112090-3 MS recovery, performed on L1815750-03, is outside the acceptance criteria for mercury (176%). A post digestion spike was performed and was within acceptance criteria.

The WG1112411-3 MS recoveries, performed on L1815750-03, are outside the acceptance criteria for copper (71%), and lead (16%). A post digestion spike was performed and yielded an unacceptable recovery for lead (74%); all other compounds were within acceptance criteria. This has been attributed to sample matrix.

The WG1112411-3 MS recoveries for iron (0%), and manganese (71%), performed on L1815750-03, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1112810-3 MS recovery for calcium (40%), performed on L1815750-03, does not apply because the sample concentration is greater than four times the spike amount added.

The WG1112411-4 Laboratory Duplicate RPDs for arsenic (21%) and lead (68%), performed on L1815750-03, are outside the acceptance criteria. The elevated RPDs have been attributed to the non-homogeneous nature of the native sample.

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

Case Narrative (continued)

The WG1112810-4 Laboratory Duplicate RPD for calcium (48%), performed on L1815750-03, is outside the acceptance criteria. The elevated RPD has been attributed to the non-homogeneous nature of the native sample.

Cyanide, Total

The WG1112366-2/-3 LCS/LCSD recoveries (54%/67%), associated with L1815750-03, -06, -09, -12, -15, -18, -21, -24, -27, and -30, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1112367-2/-3 LCS/LCSD recoveries (53%/66%), associated with L1815750-33, -36, -39, -42, and -44, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

Hexavalent Chromium

The WG1112451-2 LCS recovery (79%), associated with L1815750-03, -06, -09, -12, -15, -18, -21, -24, -27, and -30, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1112452-2 LCS recovery (79%), associated with L1815750-33, -36, -39, -42, and -44, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative Date: 05/09/18

ORGANICS

VOLATILES

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-01
Client ID: TP-11A_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 07:25
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/06/18 18:23
Analyst: MV
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.9	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.32	1
Chloroform	ND		ug/kg	1.8	0.43	1
Carbon tetrachloride	ND		ug/kg	1.2	0.40	1
1,2-Dichloropropane	ND		ug/kg	4.1	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.37	1
Tetrachloroethene	ND		ug/kg	1.2	0.35	1
Chlorobenzene	ND		ug/kg	1.2	0.41	1
Trichlorofluoromethane	ND		ug/kg	5.9	0.49	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.41	1
Bromodichloromethane	ND		ug/kg	1.2	0.36	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.27	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.24	1
1,1-Dichloropropene	ND		ug/kg	5.9	0.38	1
Bromoform	ND		ug/kg	4.7	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.35	1
Benzene	ND		ug/kg	1.2	0.23	1
Toluene	ND		ug/kg	1.8	0.23	1
Ethylbenzene	ND		ug/kg	1.2	0.20	1
Chloromethane	ND		ug/kg	5.9	0.51	1
Bromomethane	ND		ug/kg	2.3	0.40	1
Vinyl chloride	ND		ug/kg	2.3	0.37	1
Chloroethane	ND		ug/kg	2.3	0.37	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.44	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.28	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-01
Client ID: TP-11A_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/02/18 07:25
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	0.37	J	ug/kg	1.2	0.35	1
1,2-Dichlorobenzene	ND		ug/kg	5.9	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.9	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	5.9	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.18	1
p/m-Xylene	ND		ug/kg	2.3	0.41	1
o-Xylene	ND		ug/kg	2.3	0.40	1
Xylenes, Total	ND		ug/kg	2.3	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.40	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.28	1
Dibromomethane	ND		ug/kg	12	0.28	1
Styrene	ND		ug/kg	2.3	0.47	1
Dichlorodifluoromethane	ND		ug/kg	12	0.59	1
Acetone	21		ug/kg	12	2.7	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.81	1
Vinyl acetate	ND		ug/kg	12	0.18	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.21	1
2-Hexanone	ND		ug/kg	12	0.78	1
Bromochloromethane	ND		ug/kg	5.9	0.42	1
2,2-Dichloropropane	ND		ug/kg	5.9	0.53	1
1,2-Dibromoethane	ND		ug/kg	4.7	0.23	1
1,3-Dichloropropane	ND		ug/kg	5.9	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.37	1
Bromobenzene	ND		ug/kg	5.9	0.26	1
n-Butylbenzene	ND		ug/kg	1.2	0.27	1
sec-Butylbenzene	ND		ug/kg	1.2	0.25	1
tert-Butylbenzene	ND		ug/kg	5.9	0.29	1
o-Chlorotoluene	ND		ug/kg	5.9	0.26	1
p-Chlorotoluene	ND		ug/kg	5.9	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.9	0.46	1
Hexachlorobutadiene	ND		ug/kg	5.9	0.41	1
Isopropylbenzene	ND		ug/kg	1.2	0.23	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.24	1
Naphthalene	0.20	J	ug/kg	5.9	0.16	1
Acrylonitrile	ND		ug/kg	12	0.60	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-01
Client ID: TP-11A_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/02/18 07:25
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.25	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.9	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.9	0.25	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.9	0.19	1
1,2,4-Trimethylbenzene	0.23	J	ug/kg	5.9	0.22	1
1,4-Dioxane	ND		ug/kg	47	17.	1
p-Diethylbenzene	ND		ug/kg	4.7	4.7	1
p-Ethyltoluene	ND		ug/kg	4.7	0.27	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.7	0.18	1
Ethyl ether	ND		ug/kg	5.9	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.9	0.46	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**151**	Q	70-130
Toluene-d8	82		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	77		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-02
Client ID: TP-11A_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 07:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 09:05
Analyst: JC
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	13	2.2	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.36	1
Chloroform	ND		ug/kg	2.0	0.49	1
Carbon tetrachloride	ND		ug/kg	1.3	0.45	1
1,2-Dichloropropane	ND		ug/kg	4.6	0.30	1
Dibromochloromethane	ND		ug/kg	1.3	0.23	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.41	1
Tetrachloroethene	0.59	J	ug/kg	1.3	0.40	1
Chlorobenzene	ND		ug/kg	1.3	0.46	1
Trichlorofluoromethane	ND		ug/kg	6.6	0.55	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.46	1
Bromodichloromethane	ND		ug/kg	1.3	0.41	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.30	1
1,3-Dichloropropene, Total	ND		ug/kg	1.3	0.27	1
1,1-Dichloropropene	ND		ug/kg	6.6	0.43	1
Bromoform	ND		ug/kg	5.3	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.39	1
Benzene	ND		ug/kg	1.3	0.25	1
Toluene	0.29	J	ug/kg	2.0	0.26	1
Ethylbenzene	ND		ug/kg	1.3	0.22	1
Chloromethane	ND		ug/kg	6.6	0.57	1
Bromomethane	ND		ug/kg	2.6	0.44	1
Vinyl chloride	ND		ug/kg	2.6	0.42	1
Chloroethane	ND		ug/kg	2.6	0.42	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.49	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.32	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-02
Client ID: TP-11A_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/02/18 07:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	13		ug/kg	1.3	0.40	1
1,2-Dichlorobenzene	ND		ug/kg	6.6	0.24	1
1,3-Dichlorobenzene	ND		ug/kg	6.6	0.29	1
1,4-Dichlorobenzene	ND		ug/kg	6.6	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.20	1
p/m-Xylene	ND		ug/kg	2.6	0.46	1
o-Xylene	ND		ug/kg	2.6	0.44	1
Xylenes, Total	ND		ug/kg	2.6	0.44	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.45	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.32	1
Dibromomethane	ND		ug/kg	13	0.32	1
Styrene	ND		ug/kg	2.6	0.53	1
Dichlorodifluoromethane	ND		ug/kg	13	0.66	1
Acetone	ND		ug/kg	13	3.0	1
Carbon disulfide	ND		ug/kg	13	1.4	1
2-Butanone	ND		ug/kg	13	0.91	1
Vinyl acetate	ND		ug/kg	13	0.20	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.32	1
1,2,3-Trichloropropane	ND		ug/kg	13	0.23	1
2-Hexanone	ND		ug/kg	13	0.88	1
Bromochloromethane	ND		ug/kg	6.6	0.47	1
2,2-Dichloropropane	ND		ug/kg	6.6	0.59	1
1,2-Dibromoethane	ND		ug/kg	5.3	0.26	1
1,3-Dichloropropane	ND		ug/kg	6.6	0.24	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.42	1
Bromobenzene	ND		ug/kg	6.6	0.29	1
n-Butylbenzene	ND		ug/kg	1.3	0.30	1
sec-Butylbenzene	ND		ug/kg	1.3	0.29	1
tert-Butylbenzene	ND		ug/kg	6.6	0.32	1
o-Chlorotoluene	ND		ug/kg	6.6	0.29	1
p-Chlorotoluene	ND		ug/kg	6.6	0.24	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.6	0.52	1
Hexachlorobutadiene	ND		ug/kg	6.6	0.46	1
Isopropylbenzene	ND		ug/kg	1.3	0.26	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.27	1
Naphthalene	ND		ug/kg	6.6	0.18	1
Acrylonitrile	ND		ug/kg	13	0.68	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-02
Client ID: TP-11A_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/02/18 07:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.28	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.6	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.6	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.6	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.6	0.24	1
1,4-Dioxane	ND		ug/kg	53	19.	1
p-Diethylbenzene	ND		ug/kg	5.3	5.3	1
p-Ethyltoluene	ND		ug/kg	5.3	0.31	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.3	0.20	1
Ethyl ether	ND		ug/kg	6.6	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.6	0.52	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	96		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-04
Client ID: TP-11B_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 07:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 09:32
Analyst: JC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.30	1
Chloroform	ND		ug/kg	1.7	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.38	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.35	1
Tetrachloroethene	1.3		ug/kg	1.1	0.34	1
Chlorobenzene	ND		ug/kg	1.1	0.39	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.46	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.39	1
Bromodichloromethane	ND		ug/kg	1.1	0.34	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.26	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.23	1
1,1-Dichloropropene	ND		ug/kg	5.6	0.36	1
Bromoform	ND		ug/kg	4.4	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.33	1
Benzene	ND		ug/kg	1.1	0.22	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.19	1
Chloromethane	ND		ug/kg	5.6	0.48	1
Bromomethane	ND		ug/kg	2.2	0.38	1
Vinyl chloride	ND		ug/kg	2.2	0.35	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.41	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.27	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-04
Client ID: TP-11B_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/02/18 07:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	21		ug/kg	1.1	0.34	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.6	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	5.6	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.17	1
p/m-Xylene	ND		ug/kg	2.2	0.39	1
o-Xylene	ND		ug/kg	2.2	0.38	1
Xylenes, Total	ND		ug/kg	2.2	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.38	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.27	1
Dibromomethane	ND		ug/kg	11	0.27	1
Styrene	ND		ug/kg	2.2	0.45	1
Dichlorodifluoromethane	ND		ug/kg	11	0.56	1
Acetone	2.7	J	ug/kg	11	2.6	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.77	1
Vinyl acetate	ND		ug/kg	11	0.17	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.20	1
2-Hexanone	ND		ug/kg	11	0.74	1
Bromochloromethane	ND		ug/kg	5.6	0.40	1
2,2-Dichloropropane	ND		ug/kg	5.6	0.50	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.22	1
1,3-Dichloropropane	ND		ug/kg	5.6	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Bromobenzene	ND		ug/kg	5.6	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.25	1
sec-Butylbenzene	ND		ug/kg	1.1	0.24	1
tert-Butylbenzene	ND		ug/kg	5.6	0.28	1
o-Chlorotoluene	ND		ug/kg	5.6	0.25	1
p-Chlorotoluene	ND		ug/kg	5.6	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	0.44	1
Hexachlorobutadiene	ND		ug/kg	5.6	0.39	1
Isopropylbenzene	ND		ug/kg	1.1	0.22	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	ND		ug/kg	5.6	0.15	1
Acrylonitrile	ND		ug/kg	11	0.57	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-04
Client ID: TP-11B_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/02/18 07:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.6	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.6	0.21	1
1,4-Dioxane	ND		ug/kg	44	16.	1
p-Diethylbenzene	ND		ug/kg	4.4	4.4	1
p-Ethyltoluene	ND		ug/kg	4.4	0.26	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.17	1
Ethyl ether	ND		ug/kg	5.6	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	0.44	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-05
Client ID: TP-11B_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 07:40
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/06/18 19:41
Analyst: MV
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	19	3.1	1
1,1-Dichloroethane	ND		ug/kg	2.8	0.51	1
Chloroform	ND		ug/kg	2.8	0.70	1
Carbon tetrachloride	ND		ug/kg	1.9	0.66	1
1,2-Dichloropropane	ND		ug/kg	6.7	0.43	1
Dibromochloromethane	ND		ug/kg	1.9	0.34	1
1,1,2-Trichloroethane	ND		ug/kg	2.8	0.60	1
Tetrachloroethene	ND		ug/kg	1.9	0.58	1
Chlorobenzene	ND		ug/kg	1.9	0.66	1
Trichlorofluoromethane	ND		ug/kg	9.5	0.79	1
1,2-Dichloroethane	ND		ug/kg	1.9	0.47	1
1,1,1-Trichloroethane	ND		ug/kg	1.9	0.67	1
Bromodichloromethane	ND		ug/kg	1.9	0.59	1
trans-1,3-Dichloropropene	ND		ug/kg	1.9	0.40	1
cis-1,3-Dichloropropene	ND		ug/kg	1.9	0.44	1
1,3-Dichloropropene, Total	ND		ug/kg	1.9	0.40	1
1,1-Dichloropropene	ND		ug/kg	9.5	0.62	1
Bromoform	ND		ug/kg	7.6	0.45	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.9	0.57	1
Benzene	ND		ug/kg	1.9	0.37	1
Toluene	ND		ug/kg	2.8	0.37	1
Ethylbenzene	ND		ug/kg	1.9	0.32	1
Chloromethane	ND		ug/kg	9.5	0.83	1
Bromomethane	ND		ug/kg	3.8	0.64	1
Vinyl chloride	ND		ug/kg	3.8	0.60	1
Chloroethane	ND		ug/kg	3.8	0.60	1
1,1-Dichloroethene	ND		ug/kg	1.9	0.71	1
trans-1,2-Dichloroethene	ND		ug/kg	2.8	0.46	1

Project Name: FORMER BICC **Lab Number:** L1815750

Project Number: 056970006 **Report Date:** 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-05 Date Collected: 05/02/18 07:40

Client ID: TP-11B_GRAB-2 Date Received: 05/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.9	0.58	1
1,2-Dichlorobenzene	ND		ug/kg	9.5	0.35	1
1,3-Dichlorobenzene	ND		ug/kg	9.5	0.42	1
1,4-Dichlorobenzene	ND		ug/kg	9.5	0.35	1
Methyl tert butyl ether	ND		ug/kg	3.8	0.29	1
p/m-Xylene	ND		ug/kg	3.8	0.67	1
o-Xylene	ND		ug/kg	3.8	0.64	1
Xylenes, Total	ND		ug/kg	3.8	0.64	1
cis-1,2-Dichloroethene	ND		ug/kg	1.9	0.65	1
1,2-Dichloroethene, Total	ND		ug/kg	1.9	0.46	1
Dibromomethane	ND		ug/kg	19	0.46	1
Styrene	ND		ug/kg	3.8	0.76	1
Dichlorodifluoromethane	ND		ug/kg	19	0.95	1
Acetone	76		ug/kg	19	4.4	1
Carbon disulfide	ND		ug/kg	19	2.1	1
2-Butanone	ND		ug/kg	19	1.3	1
Vinyl acetate	ND		ug/kg	19	0.29	1
4-Methyl-2-pentanone	ND		ug/kg	19	0.46	1
1,2,3-Trichloropropane	ND		ug/kg	19	0.34	1
2-Hexanone	ND		ug/kg	19	1.3	1
Bromochloromethane	ND		ug/kg	9.5	0.68	1
2,2-Dichloropropane	ND		ug/kg	9.5	0.86	1
1,2-Dibromoethane	ND		ug/kg	7.6	0.38	1
1,3-Dichloropropane	ND		ug/kg	9.5	0.35	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.9	0.60	1
Bromobenzene	ND		ug/kg	9.5	0.42	1
n-Butylbenzene	ND		ug/kg	1.9	0.43	1
sec-Butylbenzene	ND		ug/kg	1.9	0.41	1
tert-Butylbenzene	ND		ug/kg	9.5	0.47	1
o-Chlorotoluene	ND		ug/kg	9.5	0.42	1
p-Chlorotoluene	ND		ug/kg	9.5	0.35	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	9.5	0.75	1
Hexachlorobutadiene	ND		ug/kg	9.5	0.66	1
Isopropylbenzene	ND		ug/kg	1.9	0.37	1
p-Isopropyltoluene	ND		ug/kg	1.9	0.38	1
Naphthalene	ND		ug/kg	9.5	0.26	1
Acrylonitrile	ND		ug/kg	19	0.98	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-05
Client ID: TP-11B_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/02/18 07:40
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.9	0.41	1
1,2,3-Trichlorobenzene	ND		ug/kg	9.5	0.48	1
1,2,4-Trichlorobenzene	ND		ug/kg	9.5	0.41	1
1,3,5-Trimethylbenzene	ND		ug/kg	9.5	0.31	1
1,2,4-Trimethylbenzene	ND		ug/kg	9.5	0.35	1
1,4-Dioxane	ND		ug/kg	76	27.	1
p-Diethylbenzene	ND		ug/kg	7.6	7.6	1
p-Ethyltoluene	ND		ug/kg	7.6	0.44	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	7.6	0.30	1
Ethyl ether	ND		ug/kg	9.5	0.50	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	9.5	0.75	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**138**	Q	70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	112		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-07
Client ID: TP-13A_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 08:25
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 09:59
Analyst: JC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.33	1
Chloroform	ND		ug/kg	1.8	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.43	1
1,2-Dichloropropane	ND		ug/kg	4.3	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.39	1
Tetrachloroethene	1.3		ug/kg	1.2	0.37	1
Chlorobenzene	ND		ug/kg	1.2	0.43	1
Trichlorofluoromethane	ND		ug/kg	6.2	0.52	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.43	1
Bromodichloromethane	ND		ug/kg	1.2	0.38	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.28	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.26	1
1,1-Dichloropropene	ND		ug/kg	6.2	0.40	1
Bromoform	ND		ug/kg	4.9	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.37	1
Benzene	ND		ug/kg	1.2	0.24	1
Toluene	ND		ug/kg	1.8	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.21	1
Chloromethane	ND		ug/kg	6.2	0.54	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	ND		ug/kg	2.5	0.39	1
Chloroethane	ND		ug/kg	2.5	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.46	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.30	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-07
Client ID: TP-13A_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/02/18 08:25
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	22		ug/kg	1.2	0.37	1
1,2-Dichlorobenzene	ND		ug/kg	6.2	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	6.2	0.27	1
1,4-Dichlorobenzene	ND		ug/kg	6.2	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.19	1
p/m-Xylene	ND		ug/kg	2.5	0.43	1
o-Xylene	ND		ug/kg	2.5	0.42	1
Xylenes, Total	ND		ug/kg	2.5	0.42	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.42	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.30	1
Dibromomethane	ND		ug/kg	12	0.30	1
Styrene	ND		ug/kg	2.5	0.50	1
Dichlorodifluoromethane	ND		ug/kg	12	0.62	1
Acetone	8.7	J	ug/kg	12	2.8	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	ND		ug/kg	12	0.85	1
Vinyl acetate	ND		ug/kg	12	0.19	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.22	1
2-Hexanone	ND		ug/kg	12	0.82	1
Bromochloromethane	ND		ug/kg	6.2	0.44	1
2,2-Dichloropropane	ND		ug/kg	6.2	0.56	1
1,2-Dibromoethane	ND		ug/kg	4.9	0.24	1
1,3-Dichloropropane	ND		ug/kg	6.2	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.39	1
Bromobenzene	ND		ug/kg	6.2	0.27	1
n-Butylbenzene	ND		ug/kg	1.2	0.28	1
sec-Butylbenzene	ND		ug/kg	1.2	0.27	1
tert-Butylbenzene	ND		ug/kg	6.2	0.30	1
o-Chlorotoluene	ND		ug/kg	6.2	0.27	1
p-Chlorotoluene	ND		ug/kg	6.2	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	0.49	1
Hexachlorobutadiene	ND		ug/kg	6.2	0.43	1
Isopropylbenzene	ND		ug/kg	1.2	0.24	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.25	1
Naphthalene	ND		ug/kg	6.2	0.17	1
Acrylonitrile	ND		ug/kg	12	0.64	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-07
Client ID: TP-13A_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/02/18 08:25
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.2	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.2	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.2	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.2	0.23	1
1,4-Dioxane	ND		ug/kg	49	18.	1
p-Diethylbenzene	ND		ug/kg	4.9	4.9	1
p-Ethyltoluene	ND		ug/kg	4.9	0.29	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.9	0.19	1
Ethyl ether	ND		ug/kg	6.2	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	0.48	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-08
Client ID: TP-13A_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 08:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/06/18 20:32
Analyst: MV
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.29	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.37	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	0.58	J	ug/kg	1.1	0.33	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.45	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.38	1
Bromodichloromethane	ND		ug/kg	1.1	0.33	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.25	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.22	1
1,1-Dichloropropene	ND		ug/kg	5.4	0.35	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.32	1
Benzene	ND		ug/kg	1.1	0.21	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.18	1
Chloromethane	ND		ug/kg	5.4	0.47	1
Bromomethane	ND		ug/kg	2.2	0.36	1
Vinyl chloride	ND		ug/kg	2.2	0.34	1
Chloroethane	ND		ug/kg	2.2	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.40	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.26	1

Project Name: FORMER BICC **Lab Number:** L1815750

Project Number: 056970006 **Report Date:** 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-08 Date Collected: 05/02/18 08:30

Client ID: TP-13A_GRAB-2 Date Received: 05/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	22		ug/kg	1.1	0.33	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.4	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.16	1
p/m-Xylene	ND		ug/kg	2.2	0.38	1
o-Xylene	ND		ug/kg	2.2	0.36	1
Xylenes, Total	ND		ug/kg	2.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.37	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.26	1
Dibromomethane	ND		ug/kg	11	0.26	1
Styrene	ND		ug/kg	2.2	0.43	1
Dichlorodifluoromethane	ND		ug/kg	11	0.54	1
Acetone	4.5	J	ug/kg	11	2.5	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.75	1
Vinyl acetate	ND		ug/kg	11	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.19	1
2-Hexanone	ND		ug/kg	11	0.72	1
Bromochloromethane	ND		ug/kg	5.4	0.39	1
2,2-Dichloropropane	ND		ug/kg	5.4	0.49	1
1,2-Dibromoethane	ND		ug/kg	4.3	0.22	1
1,3-Dichloropropane	ND		ug/kg	5.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.4	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.25	1
sec-Butylbenzene	ND		ug/kg	1.1	0.23	1
tert-Butylbenzene	ND		ug/kg	5.4	0.27	1
o-Chlorotoluene	ND		ug/kg	5.4	0.24	1
p-Chlorotoluene	ND		ug/kg	5.4	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	0.43	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.38	1
Isopropylbenzene	ND		ug/kg	1.1	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	ND		ug/kg	5.4	0.15	1
Acrylonitrile	ND		ug/kg	11	0.56	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-08
Client ID: TP-13A_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/02/18 08:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	0.20	1
1,4-Dioxane	ND		ug/kg	43	16.	1
p-Diethylbenzene	ND		ug/kg	4.3	4.3	1
p-Ethyltoluene	ND		ug/kg	4.3	0.25	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.3	0.17	1
Ethyl ether	ND		ug/kg	5.4	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	0.42	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	129		70-130
Toluene-d8	84		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	102		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-10
Client ID: TP-13B_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 08:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 10:27
Analyst: JC
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	14	2.2	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.37	1
Chloroform	ND		ug/kg	2.0	0.50	1
Carbon tetrachloride	ND		ug/kg	1.4	0.47	1
1,2-Dichloropropane	ND		ug/kg	4.8	0.31	1
Dibromochloromethane	ND		ug/kg	1.4	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.43	1
Tetrachloroethene	1.6		ug/kg	1.4	0.41	1
Chlorobenzene	ND		ug/kg	1.4	0.48	1
Trichlorofluoromethane	ND		ug/kg	6.8	0.57	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	1.4	0.48	1
Bromodichloromethane	ND		ug/kg	1.4	0.42	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	1.4	0.32	1
1,3-Dichloropropene, Total	ND		ug/kg	1.4	0.28	1
1,1-Dichloropropene	ND		ug/kg	6.8	0.45	1
Bromoform	ND		ug/kg	5.5	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.4	0.41	1
Benzene	ND		ug/kg	1.4	0.26	1
Toluene	ND		ug/kg	2.0	0.27	1
Ethylbenzene	ND		ug/kg	1.4	0.23	1
Chloromethane	ND		ug/kg	6.8	0.60	1
Bromomethane	ND		ug/kg	2.7	0.46	1
Vinyl chloride	ND		ug/kg	2.7	0.43	1
Chloroethane	ND		ug/kg	2.7	0.43	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.51	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.33	1

Project Name: FORMER BICC **Lab Number:** L1815750

Project Number: 056970006 **Report Date:** 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-10 Date Collected: 05/02/18 08:35

Client ID: TP-13B_GRAB-1 Date Received: 05/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	40		ug/kg	1.4	0.41	1
1,2-Dichlorobenzene	ND		ug/kg	6.8	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	6.8	0.30	1
1,4-Dichlorobenzene	ND		ug/kg	6.8	0.25	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.21	1
p/m-Xylene	ND		ug/kg	2.7	0.48	1
o-Xylene	ND		ug/kg	2.7	0.46	1
Xylenes, Total	ND		ug/kg	2.7	0.46	1
cis-1,2-Dichloroethene	0.97	J	ug/kg	1.4	0.47	1
1,2-Dichloroethene, Total	0.97	J	ug/kg	1.4	0.33	1
Dibromomethane	ND		ug/kg	14	0.33	1
Styrene	ND		ug/kg	2.7	0.55	1
Dichlorodifluoromethane	ND		ug/kg	14	0.68	1
Acetone	18		ug/kg	14	3.1	1
Carbon disulfide	ND		ug/kg	14	1.5	1
2-Butanone	ND		ug/kg	14	0.94	1
Vinyl acetate	ND		ug/kg	14	0.21	1
4-Methyl-2-pentanone	ND		ug/kg	14	0.33	1
1,2,3-Trichloropropane	ND		ug/kg	14	0.24	1
2-Hexanone	ND		ug/kg	14	0.91	1
Bromochloromethane	ND		ug/kg	6.8	0.49	1
2,2-Dichloropropane	ND		ug/kg	6.8	0.61	1
1,2-Dibromoethane	ND		ug/kg	5.5	0.27	1
1,3-Dichloropropane	ND		ug/kg	6.8	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.4	0.43	1
Bromobenzene	ND		ug/kg	6.8	0.30	1
n-Butylbenzene	ND		ug/kg	1.4	0.31	1
sec-Butylbenzene	ND		ug/kg	1.4	0.30	1
tert-Butylbenzene	ND		ug/kg	6.8	0.34	1
o-Chlorotoluene	ND		ug/kg	6.8	0.30	1
p-Chlorotoluene	ND		ug/kg	6.8	0.25	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.8	0.54	1
Hexachlorobutadiene	ND		ug/kg	6.8	0.48	1
Isopropylbenzene	ND		ug/kg	1.4	0.26	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.28	1
Naphthalene	ND		ug/kg	6.8	0.19	1
Acrylonitrile	ND		ug/kg	14	0.70	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-10
Client ID: TP-13B_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/02/18 08:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.29	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.8	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.8	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.8	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.8	0.25	1
1,4-Dioxane	ND		ug/kg	55	20.	1
p-Diethylbenzene	ND		ug/kg	5.5	5.5	1
p-Ethyltoluene	ND		ug/kg	5.5	0.32	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.5	0.21	1
Ethyl ether	ND		ug/kg	6.8	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.8	0.54	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	95		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-11
Client ID: TP-13B_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 08:40
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/06/18 21:24
Analyst: MV
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.29	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.38	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.33	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.46	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.38	1
Bromodichloromethane	ND		ug/kg	1.1	0.34	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.25	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.23	1
1,1-Dichloropropene	ND		ug/kg	5.4	0.36	1
Bromoform	ND		ug/kg	4.4	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.32	1
Benzene	ND		ug/kg	1.1	0.21	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.18	1
Chloromethane	ND		ug/kg	5.4	0.48	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.34	1
Chloroethane	ND		ug/kg	2.2	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.41	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.26	1

Project Name: FORMER BICC **Lab Number:** L1815750

Project Number: 056970006 **Report Date:** 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-11 Date Collected: 05/02/18 08:40

Client ID: TP-13B_GRAB-2 Date Received: 05/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	0.83	J	ug/kg	1.1	0.33	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.4	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.17	1
p/m-Xylene	ND		ug/kg	2.2	0.38	1
o-Xylene	ND		ug/kg	2.2	0.37	1
Xylenes, Total	ND		ug/kg	2.2	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.37	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.26	1
Dibromomethane	ND		ug/kg	11	0.26	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	11	0.54	1
Acetone	44		ug/kg	11	2.5	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	3.4	J	ug/kg	11	0.75	1
Vinyl acetate	ND		ug/kg	11	0.17	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.19	1
2-Hexanone	ND		ug/kg	11	0.73	1
Bromochloromethane	ND		ug/kg	5.4	0.39	1
2,2-Dichloropropane	ND		ug/kg	5.4	0.49	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.22	1
1,3-Dichloropropane	ND		ug/kg	5.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Bromobenzene	ND		ug/kg	5.4	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.25	1
sec-Butylbenzene	ND		ug/kg	1.1	0.24	1
tert-Butylbenzene	ND		ug/kg	5.4	0.27	1
o-Chlorotoluene	ND		ug/kg	5.4	0.24	1
p-Chlorotoluene	ND		ug/kg	5.4	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	0.43	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.38	1
Isopropylbenzene	ND		ug/kg	1.1	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	ND		ug/kg	5.4	0.15	1
Acrylonitrile	ND		ug/kg	11	0.56	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-11
Client ID: TP-13B_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/02/18 08:40
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	0.20	1
1,4-Dioxane	ND		ug/kg	44	16.	1
p-Diethylbenzene	ND		ug/kg	4.4	4.4	1
p-Ethyltoluene	ND		ug/kg	4.4	0.26	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.17	1
Ethyl ether	ND		ug/kg	5.4	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	0.43	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	108		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-13
Client ID: TP-15A_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 09:20
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 10:54
Analyst: JC
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.33	1
Chloroform	ND		ug/kg	1.8	0.45	1
Carbon tetrachloride	ND		ug/kg	1.2	0.42	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.36	1
Chlorobenzene	ND		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.0	0.50	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.42	1
Bromodichloromethane	ND		ug/kg	1.2	0.37	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.28	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.25	1
1,1-Dichloropropene	ND		ug/kg	6.0	0.40	1
Bromoform	ND		ug/kg	4.8	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.36	1
Benzene	ND		ug/kg	1.2	0.23	1
Toluene	0.28	J	ug/kg	1.8	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.20	1
Chloromethane	ND		ug/kg	6.0	0.53	1
Bromomethane	ND		ug/kg	2.4	0.41	1
Vinyl chloride	ND		ug/kg	2.4	0.38	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.45	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.29	1

Project Name: FORMER BICC **Lab Number:** L1815750

Project Number: 056970006 **Report Date:** 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-13 Date Collected: 05/02/18 09:20

Client ID: TP-15A_GRAB-1 Date Received: 05/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	0.66	J	ug/kg	1.2	0.36	1
1,2-Dichlorobenzene	ND		ug/kg	6.0	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	6.0	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	6.0	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.18	1
p/m-Xylene	ND		ug/kg	2.4	0.42	1
o-Xylene	ND		ug/kg	2.4	0.41	1
Xylenes, Total	ND		ug/kg	2.4	0.41	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.41	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.29	1
Dibromomethane	ND		ug/kg	12	0.29	1
Styrene	ND		ug/kg	2.4	0.48	1
Dichlorodifluoromethane	ND		ug/kg	12	0.60	1
Acetone	29		ug/kg	12	2.8	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.84	1
Vinyl acetate	ND		ug/kg	12	0.18	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.21	1
2-Hexanone	ND		ug/kg	12	0.81	1
Bromochloromethane	ND		ug/kg	6.0	0.43	1
2,2-Dichloropropane	ND		ug/kg	6.0	0.54	1
1,2-Dibromoethane	ND		ug/kg	4.8	0.24	1
1,3-Dichloropropane	ND		ug/kg	6.0	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.38	1
Bromobenzene	ND		ug/kg	6.0	0.26	1
n-Butylbenzene	ND		ug/kg	1.2	0.28	1
sec-Butylbenzene	ND		ug/kg	1.2	0.26	1
tert-Butylbenzene	ND		ug/kg	6.0	0.30	1
o-Chlorotoluene	ND		ug/kg	6.0	0.27	1
p-Chlorotoluene	ND		ug/kg	6.0	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	0.48	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.42	1
Isopropylbenzene	ND		ug/kg	1.2	0.23	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.24	1
Naphthalene	ND		ug/kg	6.0	0.17	1
Acrylonitrile	ND		ug/kg	12	0.62	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-13
Client ID: TP-15A_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/02/18 09:20
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.0	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.0	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.0	0.22	1
1,4-Dioxane	ND		ug/kg	48	17.	1
p-Diethylbenzene	ND		ug/kg	4.8	4.8	1
p-Ethyltoluene	ND		ug/kg	4.8	0.28	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.8	0.19	1
Ethyl ether	ND		ug/kg	6.0	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	96		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-14
Client ID: TP-15A_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 09:25
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 11:22
Analyst: JC
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.30	1
Chloroform	ND		ug/kg	1.6	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.38	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	0.59	J	ug/kg	1.1	0.33	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.46	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.38	1
Bromodichloromethane	ND		ug/kg	1.1	0.34	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.25	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.23	1
1,1-Dichloropropene	ND		ug/kg	5.5	0.36	1
Bromoform	ND		ug/kg	4.4	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.33	1
Benzene	ND		ug/kg	1.1	0.21	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.19	1
Chloromethane	ND		ug/kg	5.5	0.48	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.35	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.41	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.26	1

Project Name: FORMER BICC **Lab Number:** L1815750

Project Number: 056970006 **Report Date:** 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-14 Date Collected: 05/02/18 09:25

Client ID: TP-15A_GRAB-2 Date Received: 05/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	17		ug/kg	1.1	0.33	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.17	1
p/m-Xylene	ND		ug/kg	2.2	0.39	1
o-Xylene	ND		ug/kg	2.2	0.37	1
Xylenes, Total	ND		ug/kg	2.2	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.38	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.26	1
Dibromomethane	ND		ug/kg	11	0.26	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	11	0.55	1
Acetone	ND		ug/kg	11	2.5	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.76	1
Vinyl acetate	ND		ug/kg	11	0.17	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.19	1
2-Hexanone	ND		ug/kg	11	0.73	1
Bromochloromethane	ND		ug/kg	5.5	0.39	1
2,2-Dichloropropane	ND		ug/kg	5.5	0.50	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.22	1
1,3-Dichloropropane	ND		ug/kg	5.5	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Bromobenzene	ND		ug/kg	5.5	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.25	1
sec-Butylbenzene	ND		ug/kg	1.1	0.24	1
tert-Butylbenzene	ND		ug/kg	5.5	0.27	1
o-Chlorotoluene	ND		ug/kg	5.5	0.24	1
p-Chlorotoluene	ND		ug/kg	5.5	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	0.44	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.38	1
Isopropylbenzene	ND		ug/kg	1.1	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	ND		ug/kg	5.5	0.15	1
Acrylonitrile	ND		ug/kg	11	0.57	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-14
Client ID: TP-15A_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/02/18 09:25
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	0.20	1
1,4-Dioxane	ND		ug/kg	44	16.	1
p-Diethylbenzene	ND		ug/kg	4.4	4.4	1
p-Ethyltoluene	ND		ug/kg	4.4	0.26	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.17	1
Ethyl ether	ND		ug/kg	5.5	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	0.43	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	96		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-16
Client ID: TP-15B_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 09:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 11:50
Analyst: JC
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.33	1
Chloroform	ND		ug/kg	1.8	0.45	1
Carbon tetrachloride	ND		ug/kg	1.2	0.42	1
1,2-Dichloropropane	ND		ug/kg	4.3	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.37	1
Chlorobenzene	ND		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.1	0.51	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.43	1
Bromodichloromethane	ND		ug/kg	1.2	0.38	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.28	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.25	1
1,1-Dichloropropene	ND		ug/kg	6.1	0.40	1
Bromoform	ND		ug/kg	4.9	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.36	1
Benzene	ND		ug/kg	1.2	0.24	1
Toluene	0.25	J	ug/kg	1.8	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.21	1
Chloromethane	ND		ug/kg	6.1	0.53	1
Bromomethane	ND		ug/kg	2.4	0.41	1
Vinyl chloride	ND		ug/kg	2.4	0.38	1
Chloroethane	ND		ug/kg	2.4	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.46	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.29	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-16
Client ID: TP-15B_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/02/18 09:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	6.1		ug/kg	1.2	0.37	1
1,2-Dichlorobenzene	ND		ug/kg	6.1	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	6.1	0.27	1
1,4-Dichlorobenzene	ND		ug/kg	6.1	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.19	1
p/m-Xylene	ND		ug/kg	2.4	0.43	1
o-Xylene	ND		ug/kg	2.4	0.41	1
Xylenes, Total	ND		ug/kg	2.4	0.41	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.42	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.29	1
Dibromomethane	ND		ug/kg	12	0.29	1
Styrene	ND		ug/kg	2.4	0.49	1
Dichlorodifluoromethane	ND		ug/kg	12	0.61	1
Acetone	13		ug/kg	12	2.8	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.84	1
Vinyl acetate	ND		ug/kg	12	0.19	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.22	1
2-Hexanone	ND		ug/kg	12	0.81	1
Bromochloromethane	ND		ug/kg	6.1	0.44	1
2,2-Dichloropropane	ND		ug/kg	6.1	0.55	1
1,2-Dibromoethane	ND		ug/kg	4.9	0.24	1
1,3-Dichloropropane	ND		ug/kg	6.1	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.39	1
Bromobenzene	ND		ug/kg	6.1	0.27	1
n-Butylbenzene	ND		ug/kg	1.2	0.28	1
sec-Butylbenzene	ND		ug/kg	1.2	0.26	1
tert-Butylbenzene	ND		ug/kg	6.1	0.30	1
o-Chlorotoluene	ND		ug/kg	6.1	0.27	1
p-Chlorotoluene	ND		ug/kg	6.1	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.1	0.48	1
Hexachlorobutadiene	ND		ug/kg	6.1	0.42	1
Isopropylbenzene	ND		ug/kg	1.2	0.24	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.25	1
Naphthalene	ND		ug/kg	6.1	0.17	1
Acrylonitrile	ND		ug/kg	12	0.63	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-16
Client ID: TP-15B_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/02/18 09:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.1	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.1	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.1	0.23	1
1,4-Dioxane	ND		ug/kg	49	18.	1
p-Diethylbenzene	ND		ug/kg	4.9	4.9	1
p-Ethyltoluene	ND		ug/kg	4.9	0.29	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.9	0.19	1
Ethyl ether	ND		ug/kg	6.1	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	0.48	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	96		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-17
Client ID: TP-15B_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 09:40
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 12:17
Analyst: JC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.8	1.6	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.26	1
Chloroform	ND		ug/kg	1.5	0.36	1
Carbon tetrachloride	ND		ug/kg	0.98	0.34	1
1,2-Dichloropropane	ND		ug/kg	3.4	0.22	1
Dibromochloromethane	ND		ug/kg	0.98	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31	1
Tetrachloroethene	ND		ug/kg	0.98	0.30	1
Chlorobenzene	ND		ug/kg	0.98	0.34	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.41	1
1,2-Dichloroethane	ND		ug/kg	0.98	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.98	0.34	1
Bromodichloromethane	ND		ug/kg	0.98	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	0.98	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	0.98	0.23	1
1,3-Dichloropropene, Total	ND		ug/kg	0.98	0.20	1
1,1-Dichloropropene	ND		ug/kg	4.9	0.32	1
Bromoform	ND		ug/kg	3.9	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.98	0.29	1
Benzene	ND		ug/kg	0.98	0.19	1
Toluene	ND		ug/kg	1.5	0.19	1
Ethylbenzene	ND		ug/kg	0.98	0.17	1
Chloromethane	ND		ug/kg	4.9	0.43	1
Bromomethane	ND		ug/kg	2.0	0.33	1
Vinyl chloride	ND		ug/kg	2.0	0.31	1
Chloroethane	ND		ug/kg	2.0	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.98	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-17
Client ID: TP-15B_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/02/18 09:40
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.98	0.30	1
1,2-Dichlorobenzene	ND		ug/kg	4.9	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	4.9	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	4.9	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.15	1
p/m-Xylene	ND		ug/kg	2.0	0.34	1
o-Xylene	ND		ug/kg	2.0	0.33	1
Xylenes, Total	ND		ug/kg	2.0	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	0.98	0.34	1
1,2-Dichloroethene, Total	ND		ug/kg	0.98	0.24	1
Dibromomethane	ND		ug/kg	9.8	0.23	1
Styrene	ND		ug/kg	2.0	0.39	1
Dichlorodifluoromethane	ND		ug/kg	9.8	0.49	1
Acetone	5.1	J	ug/kg	9.8	2.2	1
Carbon disulfide	ND		ug/kg	9.8	1.1	1
2-Butanone	ND		ug/kg	9.8	0.68	1
Vinyl acetate	ND		ug/kg	9.8	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	9.8	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	9.8	0.17	1
2-Hexanone	ND		ug/kg	9.8	0.65	1
Bromochloromethane	ND		ug/kg	4.9	0.35	1
2,2-Dichloropropane	ND		ug/kg	4.9	0.44	1
1,2-Dibromoethane	ND		ug/kg	3.9	0.20	1
1,3-Dichloropropane	ND		ug/kg	4.9	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.98	0.31	1
Bromobenzene	ND		ug/kg	4.9	0.22	1
n-Butylbenzene	ND		ug/kg	0.98	0.22	1
sec-Butylbenzene	ND		ug/kg	0.98	0.21	1
tert-Butylbenzene	ND		ug/kg	4.9	0.24	1
o-Chlorotoluene	ND		ug/kg	4.9	0.22	1
p-Chlorotoluene	ND		ug/kg	4.9	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.9	0.39	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.34	1
Isopropylbenzene	ND		ug/kg	0.98	0.19	1
p-Isopropyltoluene	ND		ug/kg	0.98	0.20	1
Naphthalene	ND		ug/kg	4.9	0.14	1
Acrylonitrile	ND		ug/kg	9.8	0.50	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-17
Client ID: TP-15B_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/02/18 09:40
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.98	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.9	0.25	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.9	0.21	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.9	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.9	0.18	1
1,4-Dioxane	ND		ug/kg	39	14.	1
p-Diethylbenzene	ND		ug/kg	3.9	3.9	1
p-Ethyltoluene	ND		ug/kg	3.9	0.23	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.9	0.15	1
Ethyl ether	ND		ug/kg	4.9	0.26	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	0.38	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-19
Client ID: TP-16_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 10:20
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 12:45
Analyst: JC
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10	1.7	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.28	1
Chloroform	ND		ug/kg	1.6	0.38	1
Carbon tetrachloride	ND		ug/kg	1.0	0.36	1
1,2-Dichloropropane	ND		ug/kg	3.6	0.24	1
Dibromochloromethane	ND		ug/kg	1.0	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.32	1
Tetrachloroethene	ND		ug/kg	1.0	0.31	1
Chlorobenzene	ND		ug/kg	1.0	0.36	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.43	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.36	1
Bromodichloromethane	ND		ug/kg	1.0	0.32	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.22	1
1,1-Dichloropropene	ND		ug/kg	5.2	0.34	1
Bromoform	ND		ug/kg	4.1	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.31	1
Benzene	ND		ug/kg	1.0	0.20	1
Toluene	ND		ug/kg	1.6	0.20	1
Ethylbenzene	ND		ug/kg	1.0	0.18	1
Chloromethane	ND		ug/kg	5.2	0.45	1
Bromomethane	ND		ug/kg	2.1	0.35	1
Vinyl chloride	ND		ug/kg	2.1	0.33	1
Chloroethane	ND		ug/kg	2.1	0.33	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.38	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.25	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-19
Client ID: TP-16_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/02/18 10:20
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.0	0.31	1
1,2-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	5.2	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.16	1
p/m-Xylene	ND		ug/kg	2.1	0.36	1
o-Xylene	ND		ug/kg	2.1	0.35	1
Xylenes, Total	ND		ug/kg	2.1	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.35	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.25	1
Dibromomethane	ND		ug/kg	10	0.25	1
Styrene	ND		ug/kg	2.1	0.42	1
Dichlorodifluoromethane	ND		ug/kg	10	0.52	1
Acetone	ND		ug/kg	10	2.4	1
Carbon disulfide	ND		ug/kg	10	1.1	1
2-Butanone	ND		ug/kg	10	0.72	1
Vinyl acetate	ND		ug/kg	10	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.25	1
1,2,3-Trichloropropane	ND		ug/kg	10	0.18	1
2-Hexanone	ND		ug/kg	10	0.69	1
Bromochloromethane	ND		ug/kg	5.2	0.37	1
2,2-Dichloropropane	ND		ug/kg	5.2	0.47	1
1,2-Dibromoethane	ND		ug/kg	4.1	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.33	1
Bromobenzene	ND		ug/kg	5.2	0.23	1
n-Butylbenzene	ND		ug/kg	1.0	0.24	1
sec-Butylbenzene	ND		ug/kg	1.0	0.22	1
tert-Butylbenzene	ND		ug/kg	5.2	0.26	1
o-Chlorotoluene	ND		ug/kg	5.2	0.23	1
p-Chlorotoluene	ND		ug/kg	5.2	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.2	0.41	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.36	1
Isopropylbenzene	ND		ug/kg	1.0	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.21	1
Naphthalene	ND		ug/kg	5.2	0.14	1
Acrylonitrile	ND		ug/kg	10	0.53	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-19
Client ID: TP-16_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/02/18 10:20
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.2	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.2	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.2	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.2	0.19	1
1,4-Dioxane	ND		ug/kg	41	15.	1
p-Diethylbenzene	ND		ug/kg	4.1	4.1	1
p-Ethyltoluene	ND		ug/kg	4.1	0.24	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.1	0.16	1
Ethyl ether	ND		ug/kg	5.2	0.27	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	0.41	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	96		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-20
Client ID: TP-16_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 10:25
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 13:12
Analyst: JC
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	13	2.2	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.36	1
Chloroform	ND		ug/kg	2.0	0.50	1
Carbon tetrachloride	ND		ug/kg	1.3	0.46	1
1,2-Dichloropropane	ND		ug/kg	4.7	0.31	1
Dibromochloromethane	ND		ug/kg	1.3	0.24	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.42	1
Tetrachloroethene	ND		ug/kg	1.3	0.40	1
Chlorobenzene	ND		ug/kg	1.3	0.47	1
Trichlorofluoromethane	ND		ug/kg	6.7	0.56	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.47	1
Bromodichloromethane	ND		ug/kg	1.3	0.41	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.31	1
1,3-Dichloropropene, Total	ND		ug/kg	1.3	0.28	1
1,1-Dichloropropene	ND		ug/kg	6.7	0.44	1
Bromoform	ND		ug/kg	5.4	0.32	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.40	1
Benzene	ND		ug/kg	1.3	0.26	1
Toluene	ND		ug/kg	2.0	0.26	1
Ethylbenzene	ND		ug/kg	1.3	0.23	1
Chloromethane	ND		ug/kg	6.7	0.58	1
Bromomethane	ND		ug/kg	2.7	0.45	1
Vinyl chloride	ND		ug/kg	2.7	0.42	1
Chloroethane	ND		ug/kg	2.7	0.42	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.50	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.32	1

Project Name: FORMER BICC **Lab Number:** L1815750

Project Number: 056970006 **Report Date:** 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-20 Date Collected: 05/02/18 10:25

Client ID: TP-16_GRAB-2 Date Received: 05/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.3	0.40	1
1,2-Dichlorobenzene	ND		ug/kg	6.7	0.24	1
1,3-Dichlorobenzene	ND		ug/kg	6.7	0.29	1
1,4-Dichlorobenzene	ND		ug/kg	6.7	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.20	1
p/m-Xylene	ND		ug/kg	2.7	0.47	1
o-Xylene	ND		ug/kg	2.7	0.45	1
Xylenes, Total	ND		ug/kg	2.7	0.45	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.46	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.32	1
Dibromomethane	ND		ug/kg	13	0.32	1
Styrene	ND		ug/kg	2.7	0.54	1
Dichlorodifluoromethane	ND		ug/kg	13	0.67	1
Acetone	5.2	J	ug/kg	13	3.1	1
Carbon disulfide	ND		ug/kg	13	1.5	1
2-Butanone	ND		ug/kg	13	0.93	1
Vinyl acetate	ND		ug/kg	13	0.20	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.33	1
1,2,3-Trichloropropane	ND		ug/kg	13	0.24	1
2-Hexanone	ND		ug/kg	13	0.89	1
Bromochloromethane	ND		ug/kg	6.7	0.48	1
2,2-Dichloropropane	ND		ug/kg	6.7	0.60	1
1,2-Dibromoethane	ND		ug/kg	5.4	0.27	1
1,3-Dichloropropane	ND		ug/kg	6.7	0.24	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.43	1
Bromobenzene	ND		ug/kg	6.7	0.29	1
n-Butylbenzene	ND		ug/kg	1.3	0.31	1
sec-Butylbenzene	ND		ug/kg	1.3	0.29	1
tert-Butylbenzene	ND		ug/kg	6.7	0.33	1
o-Chlorotoluene	ND		ug/kg	6.7	0.30	1
p-Chlorotoluene	ND		ug/kg	6.7	0.24	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.7	0.53	1
Hexachlorobutadiene	ND		ug/kg	6.7	0.47	1
Isopropylbenzene	ND		ug/kg	1.3	0.26	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.27	1
Naphthalene	ND		ug/kg	6.7	0.18	1
Acrylonitrile	ND		ug/kg	13	0.69	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-20
Client ID: TP-16_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/02/18 10:25
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.29	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.7	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.7	0.29	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.7	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.7	0.25	1
1,4-Dioxane	ND		ug/kg	54	19.	1
p-Diethylbenzene	ND		ug/kg	5.4	5.4	1
p-Ethyltoluene	ND		ug/kg	5.4	0.31	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.4	0.21	1
Ethyl ether	ND		ug/kg	6.7	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.7	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-22
Client ID: TP-17A_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 11:25
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 13:40
Analyst: JC
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10	1.7	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.27	1
Chloroform	ND		ug/kg	1.5	0.37	1
Carbon tetrachloride	ND		ug/kg	1.0	0.35	1
1,2-Dichloropropane	ND		ug/kg	3.5	0.23	1
Dibromochloromethane	ND		ug/kg	1.0	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.32	1
Tetrachloroethene	ND		ug/kg	1.0	0.30	1
Chlorobenzene	ND		ug/kg	1.0	0.35	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.42	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35	1
Bromodichloromethane	ND		ug/kg	1.0	0.31	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23	1
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21	1
1,1-Dichloropropene	ND		ug/kg	5.0	0.33	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30	1
Benzene	ND		ug/kg	1.0	0.19	1
Toluene	ND		ug/kg	1.5	0.20	1
Ethylbenzene	ND		ug/kg	1.0	0.17	1
Chloromethane	ND		ug/kg	5.0	0.44	1
Bromomethane	ND		ug/kg	2.0	0.34	1
Vinyl chloride	ND		ug/kg	2.0	0.32	1
Chloroethane	ND		ug/kg	2.0	0.32	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-22
Client ID: TP-17A_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/02/18 11:25
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.0	0.30	1
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.15	1
p/m-Xylene	ND		ug/kg	2.0	0.35	1
o-Xylene	ND		ug/kg	2.0	0.34	1
Xylenes, Total	ND		ug/kg	2.0	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24	1
Dibromomethane	ND		ug/kg	10	0.24	1
Styrene	ND		ug/kg	2.0	0.40	1
Dichlorodifluoromethane	ND		ug/kg	10	0.50	1
Acetone	41		ug/kg	10	2.3	1
Carbon disulfide	ND		ug/kg	10	1.1	1
2-Butanone	6.2	J	ug/kg	10	0.69	1
Vinyl acetate	ND		ug/kg	10	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	10	0.18	1
2-Hexanone	ND		ug/kg	10	0.67	1
Bromochloromethane	ND		ug/kg	5.0	0.36	1
2,2-Dichloropropane	ND		ug/kg	5.0	0.45	1
1,2-Dibromoethane	ND		ug/kg	4.0	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.0	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32	1
Bromobenzene	ND		ug/kg	5.0	0.22	1
n-Butylbenzene	ND		ug/kg	1.0	0.23	1
sec-Butylbenzene	ND		ug/kg	1.0	0.22	1
tert-Butylbenzene	ND		ug/kg	5.0	0.25	1
o-Chlorotoluene	ND		ug/kg	5.0	0.22	1
p-Chlorotoluene	ND		ug/kg	5.0	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.35	1
Isopropylbenzene	ND		ug/kg	1.0	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.20	1
Naphthalene	1.2	J	ug/kg	5.0	0.14	1
Acrylonitrile	ND		ug/kg	10	0.52	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-22
Client ID: TP-17A_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/02/18 11:25
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19	1
1,4-Dioxane	ND		ug/kg	40	14.	1
p-Diethylbenzene	ND		ug/kg	4.0	4.0	1
p-Ethyltoluene	ND		ug/kg	4.0	0.24	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16	1
Ethyl ether	ND		ug/kg	5.0	0.26	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	98		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-23
Client ID: TP-17A_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 11:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 14:07
Analyst: JC
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.7	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.29	1
Chloroform	ND		ug/kg	1.6	0.39	1
Carbon tetrachloride	ND		ug/kg	1.1	0.36	1
1,2-Dichloropropane	ND		ug/kg	3.7	0.24	1
Dibromochloromethane	ND		ug/kg	1.1	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.1	0.32	1
Chlorobenzene	ND		ug/kg	1.1	0.37	1
Trichlorofluoromethane	ND		ug/kg	5.3	0.44	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.37	1
Bromodichloromethane	ND		ug/kg	1.1	0.33	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.22	1
1,1-Dichloropropene	ND		ug/kg	5.3	0.35	1
Bromoform	ND		ug/kg	4.2	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.32	1
Benzene	ND		ug/kg	1.1	0.20	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.18	1
Chloromethane	ND		ug/kg	5.3	0.46	1
Bromomethane	ND		ug/kg	2.1	0.36	1
Vinyl chloride	ND		ug/kg	2.1	0.33	1
Chloroethane	ND		ug/kg	2.1	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.39	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.26	1

Project Name: FORMER BICC **Lab Number:** L1815750

Project Number: 056970006 **Report Date:** 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-23 Date Collected: 05/02/18 11:30

Client ID: TP-17A_GRAB-2 Date Received: 05/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	0.34	J	ug/kg	1.1	0.32	1
1,2-Dichlorobenzene	ND		ug/kg	5.3	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	5.3	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	5.3	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.16	1
p/m-Xylene	ND		ug/kg	2.1	0.37	1
o-Xylene	ND		ug/kg	2.1	0.36	1
Xylenes, Total	ND		ug/kg	2.1	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.36	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.26	1
Dibromomethane	ND		ug/kg	11	0.25	1
Styrene	ND		ug/kg	2.1	0.42	1
Dichlorodifluoromethane	ND		ug/kg	11	0.53	1
Acetone	6.3	J	ug/kg	11	2.4	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.73	1
Vinyl acetate	ND		ug/kg	11	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.19	1
2-Hexanone	ND		ug/kg	11	0.71	1
Bromochloromethane	ND		ug/kg	5.3	0.38	1
2,2-Dichloropropane	ND		ug/kg	5.3	0.48	1
1,2-Dibromoethane	ND		ug/kg	4.2	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.3	0.23	1
n-Butylbenzene	ND		ug/kg	1.1	0.24	1
sec-Butylbenzene	ND		ug/kg	1.1	0.23	1
tert-Butylbenzene	ND		ug/kg	5.3	0.26	1
o-Chlorotoluene	ND		ug/kg	5.3	0.23	1
p-Chlorotoluene	ND		ug/kg	5.3	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.3	0.42	1
Hexachlorobutadiene	ND		ug/kg	5.3	0.37	1
Isopropylbenzene	ND		ug/kg	1.1	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.21	1
Naphthalene	9.8		ug/kg	5.3	0.15	1
Acrylonitrile	ND		ug/kg	11	0.54	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-23
Client ID: TP-17A_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/02/18 11:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.3	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.3	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.3	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.3	0.20	1
1,4-Dioxane	ND		ug/kg	42	15.	1
p-Diethylbenzene	ND		ug/kg	4.2	4.2	1
p-Ethyltoluene	ND		ug/kg	4.2	0.25	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.2	0.16	1
Ethyl ether	ND		ug/kg	5.3	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.3	0.42	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-25
Client ID: TP-17B_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 11:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 21:06
Analyst: MV
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.33	1
Chloroform	ND		ug/kg	1.8	0.45	1
Carbon tetrachloride	ND		ug/kg	1.2	0.42	1
1,2-Dichloropropane	ND		ug/kg	4.3	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.37	1
Chlorobenzene	ND		ug/kg	1.2	0.43	1
Trichlorofluoromethane	ND		ug/kg	6.1	0.51	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.43	1
Bromodichloromethane	ND		ug/kg	1.2	0.38	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.28	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.26	1
1,1-Dichloropropene	ND		ug/kg	6.1	0.40	1
Bromoform	ND		ug/kg	4.9	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.36	1
Benzene	ND		ug/kg	1.2	0.24	1
Toluene	0.35	J	ug/kg	1.8	0.24	1
Ethylbenzene	0.23	J	ug/kg	1.2	0.21	1
Chloromethane	ND		ug/kg	6.1	0.53	1
Bromomethane	ND		ug/kg	2.4	0.41	1
Vinyl chloride	ND		ug/kg	2.4	0.39	1
Chloroethane	ND		ug/kg	2.4	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.46	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.30	1

Project Name: FORMER BICC **Lab Number:** L1815750

Project Number: 056970006 **Report Date:** 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-25 Date Collected: 05/02/18 11:35

Client ID: TP-17B_GRAB-1 Date Received: 05/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.2	0.37	1
1,2-Dichlorobenzene	ND		ug/kg	6.1	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	6.1	0.27	1
1,4-Dichlorobenzene	ND		ug/kg	6.1	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.19	1
p/m-Xylene	0.73	J	ug/kg	2.4	0.43	1
o-Xylene	ND		ug/kg	2.4	0.41	1
Xylenes, Total	0.73	J	ug/kg	2.4	0.41	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.42	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.30	1
Dibromomethane	ND		ug/kg	12	0.29	1
Styrene	ND		ug/kg	2.4	0.49	1
Dichlorodifluoromethane	ND		ug/kg	12	0.61	1
Acetone	24		ug/kg	12	2.8	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.85	1
Vinyl acetate	ND		ug/kg	12	0.19	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.22	1
2-Hexanone	ND		ug/kg	12	0.82	1
Bromochloromethane	ND		ug/kg	6.1	0.44	1
2,2-Dichloropropane	ND		ug/kg	6.1	0.55	1
1,2-Dibromoethane	ND		ug/kg	4.9	0.24	1
1,3-Dichloropropane	ND		ug/kg	6.1	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.39	1
Bromobenzene	ND		ug/kg	6.1	0.27	1
n-Butylbenzene	ND		ug/kg	1.2	0.28	1
sec-Butylbenzene	ND		ug/kg	1.2	0.27	1
tert-Butylbenzene	ND		ug/kg	6.1	0.30	1
o-Chlorotoluene	ND		ug/kg	6.1	0.27	1
p-Chlorotoluene	ND		ug/kg	6.1	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.1	0.48	1
Hexachlorobutadiene	ND		ug/kg	6.1	0.43	1
Isopropylbenzene	ND		ug/kg	1.2	0.24	1
p-Isopropyltoluene	0.51	J	ug/kg	1.2	0.25	1
Naphthalene	170		ug/kg	6.1	0.17	1
Acrylonitrile	ND		ug/kg	12	0.63	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-25
Client ID: TP-17B_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/02/18 11:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.1	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.1	0.26	1
1,3,5-Trimethylbenzene	0.61	J	ug/kg	6.1	0.20	1
1,2,4-Trimethylbenzene	1.5	J	ug/kg	6.1	0.23	1
1,4-Dioxane	ND		ug/kg	49	18.	1
p-Diethylbenzene	ND		ug/kg	4.9	4.9	1
p-Ethyltoluene	0.74	J	ug/kg	4.9	0.29	1
1,2,4,5-Tetramethylbenzene	0.50	J	ug/kg	4.9	0.19	1
Ethyl ether	ND		ug/kg	6.1	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.1	0.48	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	92		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-26
Client ID: TP-17B_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 11:40
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 21:34
Analyst: MV
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.4	1.5	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.25	1
Chloroform	ND		ug/kg	1.4	0.35	1
Carbon tetrachloride	ND		ug/kg	0.94	0.32	1
1,2-Dichloropropane	ND		ug/kg	3.3	0.21	1
Dibromochloromethane	ND		ug/kg	0.94	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.29	1
Tetrachloroethene	ND		ug/kg	0.94	0.28	1
Chlorobenzene	ND		ug/kg	0.94	0.32	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.39	1
1,2-Dichloroethane	ND		ug/kg	0.94	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.94	0.33	1
Bromodichloromethane	ND		ug/kg	0.94	0.29	1
trans-1,3-Dichloropropene	ND		ug/kg	0.94	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	0.94	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.94	0.19	1
1,1-Dichloropropene	ND		ug/kg	4.7	0.31	1
Bromoform	ND		ug/kg	3.7	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.94	0.28	1
Benzene	ND		ug/kg	0.94	0.18	1
Toluene	ND		ug/kg	1.4	0.18	1
Ethylbenzene	ND		ug/kg	0.94	0.16	1
Chloromethane	ND		ug/kg	4.7	0.41	1
Bromomethane	ND		ug/kg	1.9	0.32	1
Vinyl chloride	ND		ug/kg	1.9	0.29	1
Chloroethane	ND		ug/kg	1.9	0.30	1
1,1-Dichloroethene	ND		ug/kg	0.94	0.35	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.22	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-26
Client ID: TP-17B_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/02/18 11:40
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.94	0.28	1
1,2-Dichlorobenzene	ND		ug/kg	4.7	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	4.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	4.7	0.17	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.14	1
p/m-Xylene	ND		ug/kg	1.9	0.33	1
o-Xylene	ND		ug/kg	1.9	0.32	1
Xylenes, Total	ND		ug/kg	1.9	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	0.94	0.32	1
1,2-Dichloroethene, Total	ND		ug/kg	0.94	0.22	1
Dibromomethane	ND		ug/kg	9.4	0.22	1
Styrene	ND		ug/kg	1.9	0.38	1
Dichlorodifluoromethane	ND		ug/kg	9.4	0.47	1
Acetone	56		ug/kg	9.4	2.1	1
Carbon disulfide	ND		ug/kg	9.4	1.0	1
2-Butanone	5.3	J	ug/kg	9.4	0.65	1
Vinyl acetate	ND		ug/kg	9.4	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	9.4	0.23	1
1,2,3-Trichloropropane	ND		ug/kg	9.4	0.16	1
2-Hexanone	ND		ug/kg	9.4	0.62	1
Bromochloromethane	ND		ug/kg	4.7	0.33	1
2,2-Dichloropropane	ND		ug/kg	4.7	0.42	1
1,2-Dibromoethane	ND		ug/kg	3.7	0.19	1
1,3-Dichloropropane	ND		ug/kg	4.7	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.94	0.30	1
Bromobenzene	ND		ug/kg	4.7	0.20	1
n-Butylbenzene	ND		ug/kg	0.94	0.21	1
sec-Butylbenzene	ND		ug/kg	0.94	0.20	1
tert-Butylbenzene	ND		ug/kg	4.7	0.23	1
o-Chlorotoluene	ND		ug/kg	4.7	0.21	1
p-Chlorotoluene	ND		ug/kg	4.7	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.7	0.37	1
Hexachlorobutadiene	ND		ug/kg	4.7	0.32	1
Isopropylbenzene	ND		ug/kg	0.94	0.18	1
p-Isopropyltoluene	ND		ug/kg	0.94	0.19	1
Naphthalene	36		ug/kg	4.7	0.13	1
Acrylonitrile	ND		ug/kg	9.4	0.48	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-26
Client ID: TP-17B_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/02/18 11:40
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.94	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.7	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.7	0.20	1
1,3,5-Trimethylbenzene	0.20	J	ug/kg	4.7	0.15	1
1,2,4-Trimethylbenzene	0.50	J	ug/kg	4.7	0.17	1
1,4-Dioxane	ND		ug/kg	37	13.	1
p-Diethylbenzene	ND		ug/kg	3.7	3.7	1
p-Ethyltoluene	0.31	J	ug/kg	3.7	0.22	1
1,2,4,5-Tetramethylbenzene	0.24	J	ug/kg	3.7	0.15	1
Ethyl ether	ND		ug/kg	4.7	0.24	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.7	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	88		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-28
Client ID: TP-18A_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 12:15
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 22:01
Analyst: MV
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.30	1
Chloroform	ND		ug/kg	1.7	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.38	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.35	1
Tetrachloroethene	ND		ug/kg	1.1	0.34	1
Chlorobenzene	ND		ug/kg	1.1	0.39	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.47	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.39	1
Bromodichloromethane	ND		ug/kg	1.1	0.34	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.26	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.23	1
1,1-Dichloropropene	ND		ug/kg	5.6	0.37	1
Bromoform	ND		ug/kg	4.5	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.33	1
Benzene	ND		ug/kg	1.1	0.22	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.19	1
Chloromethane	ND		ug/kg	5.6	0.49	1
Bromomethane	ND		ug/kg	2.2	0.38	1
Vinyl chloride	ND		ug/kg	2.2	0.35	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.42	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.27	1

Project Name: FORMER BICC **Lab Number:** L1815750

Project Number: 056970006 **Report Date:** 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-28 Date Collected: 05/02/18 12:15

Client ID: TP-18A_GRAB-1 Date Received: 05/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.1	0.34	1
1,2-Dichlorobenzene	ND		ug/kg	5.6	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.6	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	5.6	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.17	1
p/m-Xylene	ND		ug/kg	2.2	0.39	1
o-Xylene	ND		ug/kg	2.2	0.38	1
Xylenes, Total	ND		ug/kg	2.2	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.38	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.27	1
Dibromomethane	ND		ug/kg	11	0.27	1
Styrene	ND		ug/kg	2.2	0.45	1
Dichlorodifluoromethane	ND		ug/kg	11	0.56	1
Acetone	4.2	J	ug/kg	11	2.6	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.77	1
Vinyl acetate	ND		ug/kg	11	0.17	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.20	1
2-Hexanone	ND		ug/kg	11	0.74	1
Bromochloromethane	ND		ug/kg	5.6	0.40	1
2,2-Dichloropropane	ND		ug/kg	5.6	0.50	1
1,2-Dibromoethane	ND		ug/kg	4.5	0.22	1
1,3-Dichloropropane	ND		ug/kg	5.6	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.6	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.25	1
sec-Butylbenzene	ND		ug/kg	1.1	0.24	1
tert-Butylbenzene	ND		ug/kg	5.6	0.28	1
o-Chlorotoluene	ND		ug/kg	5.6	0.25	1
p-Chlorotoluene	ND		ug/kg	5.6	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.6	0.44	1
Hexachlorobutadiene	ND		ug/kg	5.6	0.39	1
Isopropylbenzene	ND		ug/kg	1.1	0.22	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	0.89	J	ug/kg	5.6	0.15	1
Acrylonitrile	ND		ug/kg	11	0.57	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-28
Client ID: TP-18A_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/02/18 12:15
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.6	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.6	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.6	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.6	0.21	1
1,4-Dioxane	ND		ug/kg	45	16.	1
p-Diethylbenzene	ND		ug/kg	4.5	4.5	1
p-Ethyltoluene	ND		ug/kg	4.5	0.26	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.5	0.17	1
Ethyl ether	ND		ug/kg	5.6	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	0.44	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	98		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-29
Client ID: TP-18A_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 12:20
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 22:29
Analyst: MV
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.9	1.6	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.27	1
Chloroform	ND		ug/kg	1.5	0.36	1
Carbon tetrachloride	ND		ug/kg	0.99	0.34	1
1,2-Dichloropropane	ND		ug/kg	3.4	0.22	1
Dibromochloromethane	ND		ug/kg	0.99	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31	1
Tetrachloroethene	ND		ug/kg	0.99	0.30	1
Chlorobenzene	ND		ug/kg	0.99	0.34	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.41	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.99	0.34	1
Bromodichloromethane	ND		ug/kg	0.99	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	0.99	0.23	1
1,3-Dichloropropene, Total	ND		ug/kg	0.99	0.20	1
1,1-Dichloropropene	ND		ug/kg	4.9	0.32	1
Bromoform	ND		ug/kg	4.0	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.99	0.29	1
Benzene	ND		ug/kg	0.99	0.19	1
Toluene	ND		ug/kg	1.5	0.19	1
Ethylbenzene	ND		ug/kg	0.99	0.17	1
Chloromethane	ND		ug/kg	4.9	0.43	1
Bromomethane	ND		ug/kg	2.0	0.33	1
Vinyl chloride	ND		ug/kg	2.0	0.31	1
Chloroethane	ND		ug/kg	2.0	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-29
Client ID: TP-18A_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/02/18 12:20
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.99	0.30	1
1,2-Dichlorobenzene	ND		ug/kg	4.9	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	4.9	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	4.9	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.15	1
p/m-Xylene	ND		ug/kg	2.0	0.35	1
o-Xylene	ND		ug/kg	2.0	0.33	1
Xylenes, Total	ND		ug/kg	2.0	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.34	1
1,2-Dichloroethene, Total	ND		ug/kg	0.99	0.24	1
Dibromomethane	ND		ug/kg	9.9	0.24	1
Styrene	ND		ug/kg	2.0	0.40	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.49	1
Acetone	3.3	J	ug/kg	9.9	2.3	1
Carbon disulfide	ND		ug/kg	9.9	1.1	1
2-Butanone	ND		ug/kg	9.9	0.68	1
Vinyl acetate	ND		ug/kg	9.9	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	9.9	0.17	1
2-Hexanone	ND		ug/kg	9.9	0.66	1
Bromochloromethane	ND		ug/kg	4.9	0.35	1
2,2-Dichloropropane	ND		ug/kg	4.9	0.44	1
1,2-Dibromoethane	ND		ug/kg	4.0	0.20	1
1,3-Dichloropropane	ND		ug/kg	4.9	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.99	0.31	1
Bromobenzene	ND		ug/kg	4.9	0.22	1
n-Butylbenzene	ND		ug/kg	0.99	0.22	1
sec-Butylbenzene	ND		ug/kg	0.99	0.21	1
tert-Butylbenzene	ND		ug/kg	4.9	0.24	1
o-Chlorotoluene	ND		ug/kg	4.9	0.22	1
p-Chlorotoluene	ND		ug/kg	4.9	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.9	0.39	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.34	1
Isopropylbenzene	ND		ug/kg	0.99	0.19	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.20	1
Naphthalene	0.44	J	ug/kg	4.9	0.14	1
Acrylonitrile	ND		ug/kg	9.9	0.51	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-29
Client ID: TP-18A_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/02/18 12:20
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.99	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.9	0.25	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.9	0.21	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.9	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.9	0.18	1
1,4-Dioxane	ND		ug/kg	40	14.	1
p-Diethylbenzene	ND		ug/kg	4.0	4.0	1
p-Ethyltoluene	ND		ug/kg	4.0	0.23	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.15	1
Ethyl ether	ND		ug/kg	4.9	0.26	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	0.39	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-31
Client ID: TP-18B_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 12:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 22:56
Analyst: MV
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.0	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.22	1
Chloroform	ND		ug/kg	1.2	0.30	1
Carbon tetrachloride	ND		ug/kg	0.80	0.28	1
1,2-Dichloropropane	ND		ug/kg	2.8	0.18	1
Dibromochloromethane	ND		ug/kg	0.80	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.25	1
Tetrachloroethene	ND		ug/kg	0.80	0.24	1
Chlorobenzene	ND		ug/kg	0.80	0.28	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.34	1
1,2-Dichloroethane	ND		ug/kg	0.80	0.20	1
1,1,1-Trichloroethane	ND		ug/kg	0.80	0.28	1
Bromodichloromethane	ND		ug/kg	0.80	0.25	1
trans-1,3-Dichloropropene	ND		ug/kg	0.80	0.17	1
cis-1,3-Dichloropropene	ND		ug/kg	0.80	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.80	0.17	1
1,1-Dichloropropene	ND		ug/kg	4.0	0.26	1
Bromoform	ND		ug/kg	3.2	0.19	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.80	0.24	1
Benzene	ND		ug/kg	0.80	0.16	1
Toluene	ND		ug/kg	1.2	0.16	1
Ethylbenzene	ND		ug/kg	0.80	0.14	1
Chloromethane	ND		ug/kg	4.0	0.35	1
Bromomethane	ND		ug/kg	1.6	0.27	1
Vinyl chloride	ND		ug/kg	1.6	0.25	1
Chloroethane	ND		ug/kg	1.6	0.25	1
1,1-Dichloroethene	ND		ug/kg	0.80	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.19	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-31
Client ID: TP-18B_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/02/18 12:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.80	0.24	1
1,2-Dichlorobenzene	ND		ug/kg	4.0	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	4.0	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	4.0	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.6	0.12	1
p/m-Xylene	ND		ug/kg	1.6	0.28	1
o-Xylene	ND		ug/kg	1.6	0.27	1
Xylenes, Total	ND		ug/kg	1.6	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.80	0.28	1
1,2-Dichloroethene, Total	ND		ug/kg	0.80	0.19	1
Dibromomethane	ND		ug/kg	8.0	0.19	1
Styrene	ND		ug/kg	1.6	0.32	1
Dichlorodifluoromethane	ND		ug/kg	8.0	0.40	1
Acetone	5.5	J	ug/kg	8.0	1.8	1
Carbon disulfide	ND		ug/kg	8.0	0.89	1
2-Butanone	ND		ug/kg	8.0	0.56	1
Vinyl acetate	ND		ug/kg	8.0	0.12	1
4-Methyl-2-pentanone	ND		ug/kg	8.0	0.20	1
1,2,3-Trichloropropane	ND		ug/kg	8.0	0.14	1
2-Hexanone	ND		ug/kg	8.0	0.54	1
Bromochloromethane	ND		ug/kg	4.0	0.29	1
2,2-Dichloropropane	ND		ug/kg	4.0	0.36	1
1,2-Dibromoethane	ND		ug/kg	3.2	0.16	1
1,3-Dichloropropane	ND		ug/kg	4.0	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.80	0.26	1
Bromobenzene	ND		ug/kg	4.0	0.18	1
n-Butylbenzene	ND		ug/kg	0.80	0.18	1
sec-Butylbenzene	ND		ug/kg	0.80	0.17	1
tert-Butylbenzene	ND		ug/kg	4.0	0.20	1
o-Chlorotoluene	ND		ug/kg	4.0	0.18	1
p-Chlorotoluene	ND		ug/kg	4.0	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	0.32	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.28	1
Isopropylbenzene	ND		ug/kg	0.80	0.16	1
p-Isopropyltoluene	ND		ug/kg	0.80	0.16	1
Naphthalene	0.81	J	ug/kg	4.0	0.11	1
Acrylonitrile	ND		ug/kg	8.0	0.41	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-31
Client ID: TP-18B_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/02/18 12:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.80	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.0	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	0.17	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	0.13	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	0.15	1
1,4-Dioxane	ND		ug/kg	32	12.	1
p-Diethylbenzene	ND		ug/kg	3.2	3.2	1
p-Ethyltoluene	ND		ug/kg	3.2	0.19	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.2	0.12	1
Ethyl ether	ND		ug/kg	4.0	0.21	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.0	0.32	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-32
Client ID: TP-18B_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 12:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 23:24
Analyst: MV
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	13	2.1	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.34	1
Chloroform	ND		ug/kg	1.9	0.47	1
Carbon tetrachloride	ND		ug/kg	1.3	0.44	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.29	1
Dibromochloromethane	ND		ug/kg	1.3	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.39	1
Tetrachloroethene	ND		ug/kg	1.3	0.38	1
Chlorobenzene	ND		ug/kg	1.3	0.44	1
Trichlorofluoromethane	ND		ug/kg	6.3	0.52	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.44	1
Bromodichloromethane	ND		ug/kg	1.3	0.39	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.29	1
1,3-Dichloropropene, Total	ND		ug/kg	1.3	0.26	1
1,1-Dichloropropene	ND		ug/kg	6.3	0.41	1
Bromoform	ND		ug/kg	5.0	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.38	1
Benzene	ND		ug/kg	1.3	0.24	1
Toluene	ND		ug/kg	1.9	0.24	1
Ethylbenzene	ND		ug/kg	1.3	0.21	1
Chloromethane	ND		ug/kg	6.3	0.55	1
Bromomethane	ND		ug/kg	2.5	0.43	1
Vinyl chloride	ND		ug/kg	2.5	0.40	1
Chloroethane	ND		ug/kg	2.5	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.47	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.30	1

Project Name: FORMER BICC **Lab Number:** L1815750

Project Number: 056970006 **Report Date:** 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-32 Date Collected: 05/02/18 12:35

Client ID: TP-18B_GRAB-2 Date Received: 05/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.3	0.38	1
1,2-Dichlorobenzene	ND		ug/kg	6.3	0.23	1
1,3-Dichlorobenzene	ND		ug/kg	6.3	0.27	1
1,4-Dichlorobenzene	ND		ug/kg	6.3	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.19	1
p/m-Xylene	ND		ug/kg	2.5	0.44	1
o-Xylene	ND		ug/kg	2.5	0.43	1
Xylenes, Total	ND		ug/kg	2.5	0.43	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.43	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.30	1
Dibromomethane	ND		ug/kg	13	0.30	1
Styrene	ND		ug/kg	2.5	0.50	1
Dichlorodifluoromethane	ND		ug/kg	13	0.63	1
Acetone	4.0	J	ug/kg	13	2.9	1
Carbon disulfide	ND		ug/kg	13	1.4	1
2-Butanone	ND		ug/kg	13	0.87	1
Vinyl acetate	ND		ug/kg	13	0.19	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.31	1
1,2,3-Trichloropropane	ND		ug/kg	13	0.22	1
2-Hexanone	ND		ug/kg	13	0.84	1
Bromochloromethane	ND		ug/kg	6.3	0.45	1
2,2-Dichloropropane	ND		ug/kg	6.3	0.57	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.25	1
1,3-Dichloropropane	ND		ug/kg	6.3	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.40	1
Bromobenzene	ND		ug/kg	6.3	0.28	1
n-Butylbenzene	ND		ug/kg	1.3	0.29	1
sec-Butylbenzene	ND		ug/kg	1.3	0.27	1
tert-Butylbenzene	ND		ug/kg	6.3	0.31	1
o-Chlorotoluene	ND		ug/kg	6.3	0.28	1
p-Chlorotoluene	ND		ug/kg	6.3	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.3	0.50	1
Hexachlorobutadiene	ND		ug/kg	6.3	0.44	1
Isopropylbenzene	ND		ug/kg	1.3	0.24	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.25	1
Naphthalene	0.55	J	ug/kg	6.3	0.17	1
Acrylonitrile	ND		ug/kg	13	0.65	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-32
Client ID: TP-18B_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/02/18 12:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.27	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.3	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.3	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.3	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.3	0.23	1
1,4-Dioxane	ND		ug/kg	50	18.	1
p-Diethylbenzene	ND		ug/kg	5.0	5.0	1
p-Ethyltoluene	ND		ug/kg	5.0	0.30	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.0	0.20	1
Ethyl ether	ND		ug/kg	6.3	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.3	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	96		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-34
Client ID: TP-19A_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 13:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/07/18 23:51
Analyst: MV
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.1	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.22	1
Chloroform	ND		ug/kg	1.2	0.30	1
Carbon tetrachloride	ND		ug/kg	0.81	0.28	1
1,2-Dichloropropane	ND		ug/kg	2.8	0.18	1
Dibromochloromethane	ND		ug/kg	0.81	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.25	1
Tetrachloroethene	ND		ug/kg	0.81	0.24	1
Chlorobenzene	ND		ug/kg	0.81	0.28	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.34	1
1,2-Dichloroethane	ND		ug/kg	0.81	0.20	1
1,1,1-Trichloroethane	ND		ug/kg	0.81	0.28	1
Bromodichloromethane	ND		ug/kg	0.81	0.25	1
trans-1,3-Dichloropropene	ND		ug/kg	0.81	0.17	1
cis-1,3-Dichloropropene	ND		ug/kg	0.81	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.81	0.17	1
1,1-Dichloropropene	ND		ug/kg	4.0	0.27	1
Bromoform	ND		ug/kg	3.2	0.19	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.81	0.24	1
Benzene	ND		ug/kg	0.81	0.16	1
Toluene	ND		ug/kg	1.2	0.16	1
Ethylbenzene	ND		ug/kg	0.81	0.14	1
Chloromethane	ND		ug/kg	4.0	0.35	1
Bromomethane	ND		ug/kg	1.6	0.27	1
Vinyl chloride	ND		ug/kg	1.6	0.26	1
Chloroethane	ND		ug/kg	1.6	0.26	1
1,1-Dichloroethene	ND		ug/kg	0.81	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1

Project Name: FORMER BICC **Lab Number:** L1815750

Project Number: 056970006 **Report Date:** 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-34 Date Collected: 05/02/18 13:30

Client ID: TP-19A_GRAB-1 Date Received: 05/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.81	0.24	1
1,2-Dichlorobenzene	ND		ug/kg	4.0	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	4.0	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	4.0	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.6	0.12	1
p/m-Xylene	ND		ug/kg	1.6	0.28	1
o-Xylene	ND		ug/kg	1.6	0.27	1
Xylenes, Total	ND		ug/kg	1.6	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.81	0.28	1
1,2-Dichloroethene, Total	ND		ug/kg	0.81	0.20	1
Dibromomethane	ND		ug/kg	8.1	0.19	1
Styrene	ND		ug/kg	1.6	0.32	1
Dichlorodifluoromethane	ND		ug/kg	8.1	0.40	1
Acetone	11		ug/kg	8.1	1.8	1
Carbon disulfide	ND		ug/kg	8.1	0.89	1
2-Butanone	ND		ug/kg	8.1	0.56	1
Vinyl acetate	ND		ug/kg	8.1	0.12	1
4-Methyl-2-pentanone	ND		ug/kg	8.1	0.20	1
1,2,3-Trichloropropane	ND		ug/kg	8.1	0.14	1
2-Hexanone	ND		ug/kg	8.1	0.54	1
Bromochloromethane	ND		ug/kg	4.0	0.29	1
2,2-Dichloropropane	ND		ug/kg	4.0	0.36	1
1,2-Dibromoethane	ND		ug/kg	3.2	0.16	1
1,3-Dichloropropane	ND		ug/kg	4.0	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.81	0.26	1
Bromobenzene	ND		ug/kg	4.0	0.18	1
n-Butylbenzene	ND		ug/kg	0.81	0.18	1
sec-Butylbenzene	ND		ug/kg	0.81	0.18	1
tert-Butylbenzene	ND		ug/kg	4.0	0.20	1
o-Chlorotoluene	ND		ug/kg	4.0	0.18	1
p-Chlorotoluene	ND		ug/kg	4.0	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	0.32	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.28	1
Isopropylbenzene	ND		ug/kg	0.81	0.16	1
p-Isopropyltoluene	ND		ug/kg	0.81	0.16	1
Naphthalene	ND		ug/kg	4.0	0.11	1
Acrylonitrile	ND		ug/kg	8.1	0.42	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-34
Client ID: TP-19A_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/02/18 13:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.81	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.0	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	0.17	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	0.13	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	0.15	1
1,4-Dioxane	ND		ug/kg	32	12.	1
p-Diethylbenzene	ND		ug/kg	3.2	3.2	1
p-Ethyltoluene	ND		ug/kg	3.2	0.19	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.2	0.13	1
Ethyl ether	ND		ug/kg	4.0	0.21	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.0	0.32	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**132**	Q	70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	105		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-35
Client ID: TP-19A_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 13:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/08/18 00:18
Analyst: MV
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.30	1
Chloroform	ND		ug/kg	1.7	0.41	1
Carbon tetrachloride	ND		ug/kg	1.1	0.38	1
1,2-Dichloropropane	ND		ug/kg	3.9	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.35	1
Tetrachloroethene	ND		ug/kg	1.1	0.33	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.46	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.39	1
Bromodichloromethane	ND		ug/kg	1.1	0.34	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.26	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.23	1
1,1-Dichloropropene	ND		ug/kg	5.5	0.36	1
Bromoform	ND		ug/kg	4.4	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.33	1
Benzene	ND		ug/kg	1.1	0.21	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.19	1
Chloromethane	ND		ug/kg	5.5	0.48	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.35	1
Chloroethane	ND		ug/kg	2.2	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.41	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.27	1

Project Name: FORMER BICC **Lab Number:** L1815750

Project Number: 056970006 **Report Date:** 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-35 Date Collected: 05/02/18 13:35

Client ID: TP-19A_GRAB-2 Date Received: 05/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.1	0.33	1
1,2-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.5	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	5.5	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.17	1
p/m-Xylene	ND		ug/kg	2.2	0.39	1
o-Xylene	ND		ug/kg	2.2	0.37	1
Xylenes, Total	ND		ug/kg	2.2	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.38	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.27	1
Dibromomethane	ND		ug/kg	11	0.26	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	11	0.55	1
Acetone	16		ug/kg	11	2.5	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.76	1
Vinyl acetate	ND		ug/kg	11	0.17	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.27	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.20	1
2-Hexanone	ND		ug/kg	11	0.74	1
Bromochloromethane	ND		ug/kg	5.5	0.40	1
2,2-Dichloropropane	ND		ug/kg	5.5	0.50	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.22	1
1,3-Dichloropropane	ND		ug/kg	5.5	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.35	1
Bromobenzene	ND		ug/kg	5.5	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.25	1
sec-Butylbenzene	ND		ug/kg	1.1	0.24	1
tert-Butylbenzene	ND		ug/kg	5.5	0.27	1
o-Chlorotoluene	ND		ug/kg	5.5	0.24	1
p-Chlorotoluene	ND		ug/kg	5.5	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.5	0.44	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.38	1
Isopropylbenzene	ND		ug/kg	1.1	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	0.44	J	ug/kg	5.5	0.15	1
Acrylonitrile	ND		ug/kg	11	0.57	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-35
Client ID: TP-19A_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/02/18 13:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.5	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.5	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.5	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.5	0.20	1
1,4-Dioxane	ND		ug/kg	44	16.	1
p-Diethylbenzene	ND		ug/kg	4.4	4.4	1
p-Ethyltoluene	ND		ug/kg	4.4	0.26	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.17	1
Ethyl ether	ND		ug/kg	5.5	0.29	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	0.43	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	96		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-37
Client ID: TP-19B_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 13:40
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/08/18 00:46
Analyst: MV
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.9	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.31	1
Chloroform	ND		ug/kg	1.7	0.42	1
Carbon tetrachloride	ND		ug/kg	1.1	0.39	1
1,2-Dichloropropane	ND		ug/kg	4.0	0.26	1
Dibromochloromethane	ND		ug/kg	1.1	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.7	0.36	1
Tetrachloroethene	ND		ug/kg	1.1	0.34	1
Chlorobenzene	ND		ug/kg	1.1	0.39	1
Trichlorofluoromethane	ND		ug/kg	5.7	0.47	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.40	1
Bromodichloromethane	ND		ug/kg	1.1	0.35	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.26	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.24	1
1,1-Dichloropropene	ND		ug/kg	5.7	0.37	1
Bromoform	ND		ug/kg	4.5	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Benzene	ND		ug/kg	1.1	0.22	1
Toluene	ND		ug/kg	1.7	0.22	1
Ethylbenzene	ND		ug/kg	1.1	0.19	1
Chloromethane	ND		ug/kg	5.7	0.49	1
Bromomethane	ND		ug/kg	2.3	0.38	1
Vinyl chloride	ND		ug/kg	2.3	0.36	1
Chloroethane	ND		ug/kg	2.3	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.42	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.27	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-37
Client ID: TP-19B_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/02/18 13:40
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.1	0.34	1
1,2-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.7	0.25	1
1,4-Dichlorobenzene	ND		ug/kg	5.7	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.17	1
p/m-Xylene	ND		ug/kg	2.3	0.40	1
o-Xylene	ND		ug/kg	2.3	0.38	1
Xylenes, Total	ND		ug/kg	2.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.39	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.27	1
Dibromomethane	ND		ug/kg	11	0.27	1
Styrene	ND		ug/kg	2.3	0.46	1
Dichlorodifluoromethane	ND		ug/kg	11	0.57	1
Acetone	6.4	J	ug/kg	11	2.6	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.78	1
Vinyl acetate	ND		ug/kg	11	0.17	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.20	1
2-Hexanone	ND		ug/kg	11	0.76	1
Bromochloromethane	ND		ug/kg	5.7	0.40	1
2,2-Dichloropropane	ND		ug/kg	5.7	0.51	1
1,2-Dibromoethane	ND		ug/kg	4.5	0.22	1
1,3-Dichloropropane	ND		ug/kg	5.7	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.36	1
Bromobenzene	ND		ug/kg	5.7	0.25	1
n-Butylbenzene	ND		ug/kg	1.1	0.26	1
sec-Butylbenzene	ND		ug/kg	1.1	0.25	1
tert-Butylbenzene	ND		ug/kg	5.7	0.28	1
o-Chlorotoluene	ND		ug/kg	5.7	0.25	1
p-Chlorotoluene	ND		ug/kg	5.7	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	0.45	1
Hexachlorobutadiene	ND		ug/kg	5.7	0.39	1
Isopropylbenzene	ND		ug/kg	1.1	0.22	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.23	1
Naphthalene	0.29	J	ug/kg	5.7	0.16	1
Acrylonitrile	ND		ug/kg	11	0.58	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-37
Client ID: TP-19B_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/02/18 13:40
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.7	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.7	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.7	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.7	0.21	1
1,4-Dioxane	ND		ug/kg	45	16.	1
p-Diethylbenzene	ND		ug/kg	4.5	4.5	1
p-Ethyltoluene	ND		ug/kg	4.5	0.26	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.5	0.18	1
Ethyl ether	ND		ug/kg	5.7	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.7	0.44	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-38
Client ID: TP-19B_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 13:45
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/08/18 01:13
Analyst: MV
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.4	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.23	1
Chloroform	ND		ug/kg	1.3	0.31	1
Carbon tetrachloride	ND		ug/kg	0.84	0.29	1
1,2-Dichloropropane	ND		ug/kg	3.0	0.19	1
Dibromochloromethane	ND		ug/kg	0.84	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.26	1
Tetrachloroethene	ND		ug/kg	0.84	0.26	1
Chlorobenzene	ND		ug/kg	0.84	0.29	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.35	1
1,2-Dichloroethane	ND		ug/kg	0.84	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	0.84	0.30	1
Bromodichloromethane	ND		ug/kg	0.84	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	0.84	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	0.84	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.84	0.18	1
1,1-Dichloropropene	ND		ug/kg	4.2	0.28	1
Bromoform	ND		ug/kg	3.4	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.84	0.25	1
Benzene	ND		ug/kg	0.84	0.16	1
Toluene	ND		ug/kg	1.3	0.16	1
Ethylbenzene	ND		ug/kg	0.84	0.14	1
Chloromethane	ND		ug/kg	4.2	0.37	1
Bromomethane	ND		ug/kg	1.7	0.28	1
Vinyl chloride	ND		ug/kg	1.7	0.27	1
Chloroethane	ND		ug/kg	1.7	0.27	1
1,1-Dichloroethene	ND		ug/kg	0.84	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.20	1

Project Name: FORMER BICC **Lab Number:** L1815750

Project Number: 056970006 **Report Date:** 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-38 Date Collected: 05/02/18 13:45

Client ID: TP-19B_GRAB-2 Date Received: 05/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.84	0.26	1
1,2-Dichlorobenzene	ND		ug/kg	4.2	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	4.2	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	4.2	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.13	1
p/m-Xylene	ND		ug/kg	1.7	0.30	1
o-Xylene	ND		ug/kg	1.7	0.28	1
Xylenes, Total	ND		ug/kg	1.7	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.84	0.29	1
1,2-Dichloroethene, Total	ND		ug/kg	0.84	0.20	1
Dibromomethane	ND		ug/kg	8.4	0.20	1
Styrene	ND		ug/kg	1.7	0.34	1
Dichlorodifluoromethane	ND		ug/kg	8.4	0.42	1
Acetone	5.4	J	ug/kg	8.4	1.9	1
Carbon disulfide	ND		ug/kg	8.4	0.93	1
2-Butanone	ND		ug/kg	8.4	0.58	1
Vinyl acetate	ND		ug/kg	8.4	0.13	1
4-Methyl-2-pentanone	ND		ug/kg	8.4	0.21	1
1,2,3-Trichloropropane	ND		ug/kg	8.4	0.15	1
2-Hexanone	ND		ug/kg	8.4	0.56	1
Bromochloromethane	ND		ug/kg	4.2	0.30	1
2,2-Dichloropropane	ND		ug/kg	4.2	0.38	1
1,2-Dibromoethane	ND		ug/kg	3.4	0.17	1
1,3-Dichloropropane	ND		ug/kg	4.2	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.84	0.27	1
Bromobenzene	ND		ug/kg	4.2	0.18	1
n-Butylbenzene	ND		ug/kg	0.84	0.19	1
sec-Butylbenzene	ND		ug/kg	0.84	0.18	1
tert-Butylbenzene	ND		ug/kg	4.2	0.21	1
o-Chlorotoluene	ND		ug/kg	4.2	0.19	1
p-Chlorotoluene	ND		ug/kg	4.2	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	0.33	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.29	1
Isopropylbenzene	ND		ug/kg	0.84	0.16	1
p-Isopropyltoluene	ND		ug/kg	0.84	0.17	1
Naphthalene	ND		ug/kg	4.2	0.12	1
Acrylonitrile	ND		ug/kg	8.4	0.43	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-38
Client ID: TP-19B_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/02/18 13:45
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.84	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.2	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.2	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.2	0.14	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.2	0.16	1
1,4-Dioxane	ND		ug/kg	34	12.	1
p-Diethylbenzene	ND		ug/kg	3.4	3.4	1
p-Ethyltoluene	ND		ug/kg	3.4	0.20	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.4	0.13	1
Ethyl ether	ND		ug/kg	4.2	0.22	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.2	0.33	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-40
Client ID: TP-21_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 14:15
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/08/18 12:39
Analyst: JC
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.2	1.5	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.25	1
Chloroform	ND		ug/kg	1.4	0.34	1
Carbon tetrachloride	ND		ug/kg	0.92	0.32	1
1,2-Dichloropropane	ND		ug/kg	3.2	0.21	1
Dibromochloromethane	ND		ug/kg	0.92	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.29	1
Tetrachloroethene	ND		ug/kg	0.92	0.28	1
Chlorobenzene	ND		ug/kg	0.92	0.32	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.39	1
1,2-Dichloroethane	ND		ug/kg	0.92	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.92	0.32	1
Bromodichloromethane	ND		ug/kg	0.92	0.28	1
trans-1,3-Dichloropropene	ND		ug/kg	0.92	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	0.92	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.92	0.19	1
1,1-Dichloropropene	ND		ug/kg	4.6	0.30	1
Bromoform	ND		ug/kg	3.7	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.92	0.28	1
Benzene	ND		ug/kg	0.92	0.18	1
Toluene	ND		ug/kg	1.4	0.18	1
Ethylbenzene	ND		ug/kg	0.92	0.16	1
Chloromethane	ND		ug/kg	4.6	0.40	1
Bromomethane	ND		ug/kg	1.8	0.31	1
Vinyl chloride	ND		ug/kg	1.8	0.29	1
Chloroethane	ND		ug/kg	1.8	0.29	1
1,1-Dichloroethene	ND		ug/kg	0.92	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.22	1

Project Name: FORMER BICC **Lab Number:** L1815750

Project Number: 056970006 **Report Date:** 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-40 Date Collected: 05/02/18 14:15

Client ID: TP-21_GRAB-1 Date Received: 05/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.92	0.28	1
1,2-Dichlorobenzene	ND		ug/kg	4.6	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	4.6	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	4.6	0.17	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.14	1
p/m-Xylene	ND		ug/kg	1.8	0.32	1
o-Xylene	ND		ug/kg	1.8	0.31	1
Xylenes, Total	ND		ug/kg	1.8	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	0.92	0.32	1
1,2-Dichloroethene, Total	ND		ug/kg	0.92	0.22	1
Dibromomethane	ND		ug/kg	9.2	0.22	1
Styrene	ND		ug/kg	1.8	0.37	1
Dichlorodifluoromethane	ND		ug/kg	9.2	0.46	1
Acetone	6.8	J	ug/kg	9.2	2.1	1
Carbon disulfide	ND		ug/kg	9.2	1.0	1
2-Butanone	ND		ug/kg	9.2	0.64	1
Vinyl acetate	ND		ug/kg	9.2	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	9.2	0.22	1
1,2,3-Trichloropropane	ND		ug/kg	9.2	0.16	1
2-Hexanone	ND		ug/kg	9.2	0.62	1
Bromochloromethane	ND		ug/kg	4.6	0.33	1
2,2-Dichloropropane	ND		ug/kg	4.6	0.42	1
1,2-Dibromoethane	ND		ug/kg	3.7	0.18	1
1,3-Dichloropropane	ND		ug/kg	4.6	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.92	0.29	1
Bromobenzene	ND		ug/kg	4.6	0.20	1
n-Butylbenzene	ND		ug/kg	0.92	0.21	1
sec-Butylbenzene	ND		ug/kg	0.92	0.20	1
tert-Butylbenzene	ND		ug/kg	4.6	0.23	1
o-Chlorotoluene	ND		ug/kg	4.6	0.20	1
p-Chlorotoluene	ND		ug/kg	4.6	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.6	0.37	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.32	1
Isopropylbenzene	ND		ug/kg	0.92	0.18	1
p-Isopropyltoluene	ND		ug/kg	0.92	0.19	1
Naphthalene	0.13	J	ug/kg	4.6	0.13	1
Acrylonitrile	ND		ug/kg	9.2	0.48	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-40
Client ID: TP-21_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/02/18 14:15
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.92	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.6	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.6	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.6	0.15	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.6	0.17	1
1,4-Dioxane	ND		ug/kg	37	13.	1
p-Diethylbenzene	ND		ug/kg	3.7	3.7	1
p-Ethyltoluene	ND		ug/kg	3.7	0.22	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.7	0.14	1
Ethyl ether	ND		ug/kg	4.6	0.24	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	0.36	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-41
Client ID: TP-21_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 14:20
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/08/18 02:08
Analyst: MV
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10	1.7	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.28	1
Chloroform	ND		ug/kg	1.6	0.39	1
Carbon tetrachloride	ND		ug/kg	1.0	0.36	1
1,2-Dichloropropane	ND		ug/kg	3.7	0.24	1
Dibromochloromethane	ND		ug/kg	1.0	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.0	0.32	1
Chlorobenzene	ND		ug/kg	1.0	0.36	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.44	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.37	1
Bromodichloromethane	ND		ug/kg	1.0	0.32	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.22	1
1,1-Dichloropropene	ND		ug/kg	5.2	0.34	1
Bromoform	ND		ug/kg	4.2	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.31	1
Benzene	ND		ug/kg	1.0	0.20	1
Toluene	ND		ug/kg	1.6	0.20	1
Ethylbenzene	ND		ug/kg	1.0	0.18	1
Chloromethane	ND		ug/kg	5.2	0.46	1
Bromomethane	ND		ug/kg	2.1	0.35	1
Vinyl chloride	ND		ug/kg	2.1	0.33	1
Chloroethane	ND		ug/kg	2.1	0.33	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.39	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.25	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-41
Client ID: TP-21_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/02/18 14:20
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.0	0.32	1
1,2-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	5.2	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.16	1
p/m-Xylene	ND		ug/kg	2.1	0.37	1
o-Xylene	ND		ug/kg	2.1	0.35	1
Xylenes, Total	ND		ug/kg	2.1	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.36	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.25	1
Dibromomethane	ND		ug/kg	10	0.25	1
Styrene	ND		ug/kg	2.1	0.42	1
Dichlorodifluoromethane	ND		ug/kg	10	0.52	1
Acetone	3.9	J	ug/kg	10	2.4	1
Carbon disulfide	ND		ug/kg	10	1.2	1
2-Butanone	ND		ug/kg	10	0.72	1
Vinyl acetate	ND		ug/kg	10	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	10	0.18	1
2-Hexanone	ND		ug/kg	10	0.70	1
Bromochloromethane	ND		ug/kg	5.2	0.37	1
2,2-Dichloropropane	ND		ug/kg	5.2	0.47	1
1,2-Dibromoethane	ND		ug/kg	4.2	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.33	1
Bromobenzene	ND		ug/kg	5.2	0.23	1
n-Butylbenzene	ND		ug/kg	1.0	0.24	1
sec-Butylbenzene	ND		ug/kg	1.0	0.23	1
tert-Butylbenzene	ND		ug/kg	5.2	0.26	1
o-Chlorotoluene	ND		ug/kg	5.2	0.23	1
p-Chlorotoluene	ND		ug/kg	5.2	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.2	0.42	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.36	1
Isopropylbenzene	ND		ug/kg	1.0	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.21	1
Naphthalene	ND		ug/kg	5.2	0.14	1
Acrylonitrile	ND		ug/kg	10	0.54	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-41
Client ID: TP-21_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/02/18 14:20
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.2	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.2	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.2	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.2	0.20	1
1,4-Dioxane	ND		ug/kg	42	15.	1
p-Diethylbenzene	ND		ug/kg	4.2	4.2	1
p-Ethyltoluene	ND		ug/kg	4.2	0.24	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.2	0.16	1
Ethyl ether	ND		ug/kg	5.2	0.27	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	0.41	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-43
Client ID: TP-X_050218-G
Sample Location: YONKERS, NY

Date Collected: 05/02/18 00:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/08/18 02:36
Analyst: MV
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.34	1
Chloroform	ND		ug/kg	1.9	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.43	1
1,2-Dichloropropane	ND		ug/kg	4.3	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.39	1
Tetrachloroethene	ND		ug/kg	1.2	0.38	1
Chlorobenzene	ND		ug/kg	1.2	0.43	1
Trichlorofluoromethane	ND		ug/kg	6.2	0.52	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.43	1
Bromodichloromethane	ND		ug/kg	1.2	0.38	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.29	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.26	1
1,1-Dichloropropene	ND		ug/kg	6.2	0.41	1
Bromoform	ND		ug/kg	5.0	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.37	1
Benzene	ND		ug/kg	1.2	0.24	1
Toluene	ND		ug/kg	1.9	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.21	1
Chloromethane	ND		ug/kg	6.2	0.54	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	ND		ug/kg	2.5	0.39	1
Chloroethane	ND		ug/kg	2.5	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.46	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.30	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-43
Client ID: TP-X_050218-G
Sample Location: YONKERS, NY
Date Collected: 05/02/18 00:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.2	0.38	1
1,2-Dichlorobenzene	ND		ug/kg	6.2	0.23	1
1,3-Dichlorobenzene	ND		ug/kg	6.2	0.27	1
1,4-Dichlorobenzene	ND		ug/kg	6.2	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.19	1
p/m-Xylene	ND		ug/kg	2.5	0.44	1
o-Xylene	ND		ug/kg	2.5	0.42	1
Xylenes, Total	ND		ug/kg	2.5	0.42	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.42	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.30	1
Dibromomethane	ND		ug/kg	12	0.30	1
Styrene	ND		ug/kg	2.5	0.50	1
Dichlorodifluoromethane	ND		ug/kg	12	0.62	1
Acetone	28		ug/kg	12	2.8	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	ND		ug/kg	12	0.86	1
Vinyl acetate	ND		ug/kg	12	0.19	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.22	1
2-Hexanone	ND		ug/kg	12	0.83	1
Bromochloromethane	ND		ug/kg	6.2	0.44	1
2,2-Dichloropropane	ND		ug/kg	6.2	0.56	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.25	1
1,3-Dichloropropane	ND		ug/kg	6.2	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.40	1
Bromobenzene	ND		ug/kg	6.2	0.27	1
n-Butylbenzene	ND		ug/kg	1.2	0.28	1
sec-Butylbenzene	ND		ug/kg	1.2	0.27	1
tert-Butylbenzene	ND		ug/kg	6.2	0.31	1
o-Chlorotoluene	ND		ug/kg	6.2	0.27	1
p-Chlorotoluene	ND		ug/kg	6.2	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	0.49	1
Hexachlorobutadiene	ND		ug/kg	6.2	0.43	1
Isopropylbenzene	ND		ug/kg	1.2	0.24	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.25	1
Naphthalene	ND		ug/kg	6.2	0.17	1
Acrylonitrile	ND		ug/kg	12	0.64	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-43
Client ID: TP-X_050218-G
Sample Location: YONKERS, NY
Date Collected: 05/02/18 00:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.27	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.2	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.2	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.2	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.2	0.23	1
1,4-Dioxane	ND		ug/kg	50	18.	1
p-Diethylbenzene	ND		ug/kg	5.0	5.0	1
p-Ethyltoluene	ND		ug/kg	5.0	0.29	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.0	0.19	1
Ethyl ether	ND		ug/kg	6.2	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-45
Client ID: FB01
Sample Location: YONKERS, NY

Date Collected: 05/02/18 15:15
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/04/18 12:02
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-45
Client ID: FB01
Sample Location: YONKERS, NY
Date Collected: 05/02/18 15:15
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	5.2		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	2.5	J	ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-45
Client ID: FB01
Sample Location: YONKERS, NY
Date Collected: 05/02/18 15:15
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	106		70-130

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/04/18 10:38
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 45 Batch: WG1112965-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/04/18 10:38
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 45 Batch: WG1112965-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/04/18 10:38
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 45 Batch: WG1112965-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	105		70-130

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/06/18 13:13
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,05,08,11 Batch: WG1113305-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	1.4	J	ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/06/18 13:13
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,05,08,11 Batch: WG1113305-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	0.23	J	ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/06/18 13:13
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,05,08,11 Batch: WG1113305-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	0.17	J	ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	105		70-130

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/07/18 08:37
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02,04,07,10,13-14,16-17,19-20,22-23 Batch: WG1113442-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/07/18 08:37
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02,04,07,10,13-14,16-17,19-20,22-23 Batch: WG1113442-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

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Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/07/18 08:37
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02,04,07,10,13-14,16-17,19-20,22-23 Batch: WG1113442-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	96		70-130

Project Name: FORMER BICC
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
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Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 25-26,28-29,31-32,34-35,37-38,41,43 Batch: WG1113517-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

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Batch Quality Control

Analytical Method: 1,8260C
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Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 25-26,28-29,31-32,34-35,37-38,41,43 Batch: WG1113517-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/07/18 20:37
Analyst: PK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 25-26,28-29,31-32,34-35,37-38,41,43 Batch: WG1113517-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	98		70-130

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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
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Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 40 Batch: WG1113612-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

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Method Blank Analysis
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Analytical Method: 1,8260C
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Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 40 Batch: WG1113612-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

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Project Number: 056970006

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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
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Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 40 Batch: WG1113612-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
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Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 40 Batch: WG1113612-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 45 Batch: WG1112965-3 WG1112965-4								
Methylene chloride	92		89		70-130	3		20
1,1-Dichloroethane	95		91		70-130	4		20
Chloroform	96		93		70-130	3		20
Carbon tetrachloride	110		100		63-132	10		20
1,2-Dichloropropane	92		90		70-130	2		20
Dibromochloromethane	86		85		63-130	1		20
1,1,2-Trichloroethane	84		82		70-130	2		20
Tetrachloroethene	96		90		70-130	6		20
Chlorobenzene	91		87		75-130	4		20
Trichlorofluoromethane	110		100		62-150	10		20
1,2-Dichloroethane	92		91		70-130	1		20
1,1,1-Trichloroethane	100		96		67-130	4		20
Bromodichloromethane	94		91		67-130	3		20
trans-1,3-Dichloropropene	84		84		70-130	0		20
cis-1,3-Dichloropropene	91		89		70-130	2		20
1,1-Dichloropropene	100		96		70-130	4		20
Bromoform	81		78		54-136	4		20
1,1,2,2-Tetrachloroethane	75		75		67-130	0		20
Benzene	95		91		70-130	4		20
Toluene	93		87		70-130	7		20
Ethylbenzene	96		90		70-130	6		20
Chloromethane	98		91		64-130	7		20
Bromomethane	110		100		39-139	10		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 45 Batch: WG1112965-3 WG1112965-4								
Vinyl chloride	96		88		55-140	9		20
Chloroethane	120		120		55-138	0		20
1,1-Dichloroethene	110		100		61-145	10		20
trans-1,2-Dichloroethene	97		92		70-130	5		20
Trichloroethene	100		96		70-130	4		20
1,2-Dichlorobenzene	87		84		70-130	4		20
1,3-Dichlorobenzene	88		83		70-130	6		20
1,4-Dichlorobenzene	87		83		70-130	5		20
Methyl tert butyl ether	84		84		63-130	0		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	95		90		70-130	5		20
cis-1,2-Dichloroethene	95		91		70-130	4		20
Dibromomethane	90		92		70-130	2		20
1,2,3-Trichloropropane	78		77		64-130	1		20
Acrylonitrile	87		88		70-130	1		20
Styrene	95		90		70-130	5		20
Dichlorodifluoromethane	100		95		36-147	5		20
Acetone	110		110		58-148	0		20
Carbon disulfide	95		88		51-130	8		20
2-Butanone	90		92		63-138	2		20
Vinyl acetate	87		87		70-130	0		20
4-Methyl-2-pentanone	74		75		59-130	1		20
2-Hexanone	72		71		57-130	1		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 45 Batch: WG1112965-3 WG1112965-4								
Bromochloromethane	96		93		70-130	3		20
2,2-Dichloropropane	110		100		63-133	10		20
1,2-Dibromoethane	83		82		70-130	1		20
1,3-Dichloropropane	83		80		70-130	4		20
1,1,1,2-Tetrachloroethane	92		88		64-130	4		20
Bromobenzene	88		83		70-130	6		20
n-Butylbenzene	78		66		53-136	17		20
sec-Butylbenzene	90		80		70-130	12		20
tert-Butylbenzene	78		72		70-130	8		20
o-Chlorotoluene	91		85		70-130	7		20
p-Chlorotoluene	90		84		70-130	7		20
1,2-Dibromo-3-chloropropane	68		68		41-144	0		20
Hexachlorobutadiene	98		90		63-130	9		20
Isopropylbenzene	94		87		70-130	8		20
p-Isopropyltoluene	84		73		70-130	14		20
Naphthalene	**65**	Q	**65**	Q	70-130	0		20
n-Propylbenzene	93		86		69-130	8		20
1,2,3-Trichlorobenzene	81		80		70-130	1		20
1,2,4-Trichlorobenzene	81		78		70-130	4		20
1,3,5-Trimethylbenzene	90		83		64-130	8		20
1,2,4-Trimethylbenzene	85		76		70-130	11		20
1,4-Dioxane	94		92		56-162	2		20
p-Diethylbenzene	80		**69**	Q	70-130	15		20

Lab Control Sample Analysis

Batch Quality Control

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 45 Batch: WG1112965-3 WG1112965-4								
p-Ethyltoluene	91		84		70-130	8		20
1,2,4,5-Tetramethylbenzene	93		88		70-130	6		20
Ethyl ether	92		94		59-134	2		20
trans-1,4-Dichloro-2-butene	74		71		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		100		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	105		103		70-130

Lab Control Sample Analysis
Batch Quality Control

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,05,08,11 Batch: WG1113305-3 WG1113305-4								
Methylene chloride	100		98		70-130	2		30
1,1-Dichloroethane	103		100		70-130	3		30
Chloroform	92		101		70-130	9		30
Carbon tetrachloride	104		112		70-130	7		30
1,2-Dichloropropane	91		96		70-130	5		30
Dibromochloromethane	103		101		70-130	2		30
1,1,2-Trichloroethane	94		79		70-130	17		30
Tetrachloroethene	86		87		70-130	1		30
Chlorobenzene	90		93		70-130	3		30
Trichlorofluoromethane	97		99		70-139	2		30
1,2-Dichloroethane	112		113		70-130	1		30
1,1,1-Trichloroethane	100		106		70-130	6		30
Bromodichloromethane	104		106		70-130	2		30
trans-1,3-Dichloropropene	102		102		70-130	0		30
cis-1,3-Dichloropropene	97		98		70-130	1		30
1,1-Dichloropropene	89		80		70-130	11		30
Bromoform	87		96		70-130	10		30
1,1,2,2-Tetrachloroethane	91		95		70-130	4		30
Benzene	87		89		70-130	2		30
Toluene	83		86		70-130	4		30
Ethylbenzene	88		89		70-130	1		30
Chloromethane	83		80		52-130	4		30
Bromomethane	91		90		57-147	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
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Lab Number: L1815750
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,05,08,11 Batch: WG1113305-3 WG1113305-4								
Vinyl chloride	77		80		67-130	4		30
Chloroethane	74		76		50-151	3		30
1,1-Dichloroethene	92		90		65-135	2		30
trans-1,2-Dichloroethene	95		97		70-130	2		30
Trichloroethene	92		96		70-130	4		30
1,2-Dichlorobenzene	95		94		70-130	1		30
1,3-Dichlorobenzene	92		94		70-130	2		30
1,4-Dichlorobenzene	92		94		70-130	2		30
Methyl tert butyl ether	114		110		66-130	4		30
p/m-Xylene	88		90		70-130	2		30
o-Xylene	80		90		70-130	12		30
cis-1,2-Dichloroethene	99		96		70-130	3		30
Dibromomethane	99		104		70-130	5		30
Styrene	76		92		70-130	19		30
Dichlorodifluoromethane	78		82		30-146	5		30
Acetone	114		100		54-140	13		30
Carbon disulfide	86		83		59-130	4		30
2-Butanone	103		80		70-130	25		30
Vinyl acetate	97		93		70-130	4		30
4-Methyl-2-pentanone	97		93		70-130	4		30
1,2,3-Trichloropropane	98		97		68-130	1		30
2-Hexanone	93		70		70-130	28		30
Bromochloromethane	109		100		70-130	9		30

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Batch Quality Control

Project Name: FORMER BICC
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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,05,08,11 Batch: WG1113305-3 WG1113305-4								
2,2-Dichloropropane	94		90		70-130	4		30
1,2-Dibromoethane	103		98		70-130	5		30
1,3-Dichloropropane	98		95		69-130	3		30
1,1,1,2-Tetrachloroethane	102		100		70-130	2		30
Bromobenzene	91		92		70-130	1		30
n-Butylbenzene	86		91		70-130	6		30
sec-Butylbenzene	88		91		70-130	3		30
tert-Butylbenzene	88		96		70-130	9		30
o-Chlorotoluene	92		95		70-130	3		30
p-Chlorotoluene	94		95		70-130	1		30
1,2-Dibromo-3-chloropropane	90		78		68-130	14		30
Hexachlorobutadiene	77		73		67-130	5		30
Isopropylbenzene	86		92		70-130	7		30
p-Isopropyltoluene	87		91		70-130	4		30
Naphthalene	97		89		70-130	9		30
Acrylonitrile	123		108		70-130	13		30
n-Propylbenzene	87		90		70-130	3		30
1,2,3-Trichlorobenzene	92		89		70-130	3		30
1,2,4-Trichlorobenzene	86		82		70-130	5		30
1,3,5-Trimethylbenzene	91		96		70-130	5		30
1,2,4-Trimethylbenzene	94		97		70-130	3		30
1,4-Dioxane	84		87		65-136	4		30
p-Diethylbenzene	86		87		70-130	1		30

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,05,08,11 Batch: WG1113305-3 WG1113305-4								
p-Ethyltoluene	85		89		70-130	5		30
1,2,4,5-Tetramethylbenzene	90		89		70-130	1		30
Ethyl ether	105		99		67-130	6		30
trans-1,4-Dichloro-2-butene	107		114		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	120		118		70-130
Toluene-d8	103		107		70-130
4-Bromofluorobenzene	102		104		70-130
Dibromofluoromethane	103		103		70-130

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04,07,10,13-14,16-17,19-20,22-23 Batch: WG1113442-3 WG1113442-4								
Methylene chloride	78		78		70-130	0		30
1,1-Dichloroethane	88		86		70-130	2		30
Chloroform	85		84		70-130	1		30
Carbon tetrachloride	97		94		70-130	3		30
1,2-Dichloropropane	86		85		70-130	1		30
Dibromochloromethane	102		104		70-130	2		30
1,1,2-Trichloroethane	101		102		70-130	1		30
Tetrachloroethene	103		98		70-130	5		30
Chlorobenzene	100		98		70-130	2		30
Trichlorofluoromethane	100		95		70-139	5		30
1,2-Dichloroethane	83		83		70-130	0		30
1,1,1-Trichloroethane	93		89		70-130	4		30
Bromodichloromethane	85		85		70-130	0		30
trans-1,3-Dichloropropene	87		89		70-130	2		30
cis-1,3-Dichloropropene	89		90		70-130	1		30
1,1-Dichloropropene	95		88		70-130	8		30
Bromoform	89		92		70-130	3		30
1,1,2,2-Tetrachloroethane	99		102		70-130	3		30
Benzene	87		84		70-130	4		30
Toluene	102		99		70-130	3		30
Ethylbenzene	104		100		70-130	4		30
Chloromethane	75		90		52-130	18		30
Bromomethane	85		89		57-147	5		30

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04,07,10,13-14,16-17,19-20,22-23 Batch: WG1113442-3 WG1113442-4								
Vinyl chloride	92		87		67-130	6		30
Chloroethane	102		99		50-151	3		30
1,1-Dichloroethene	109		85		65-135	25		30
trans-1,2-Dichloroethene	90		86		70-130	5		30
Trichloroethene	88		86		70-130	2		30
1,2-Dichlorobenzene	103		103		70-130	0		30
1,3-Dichlorobenzene	105		104		70-130	1		30
1,4-Dichlorobenzene	102		100		70-130	2		30
Methyl tert butyl ether	81		83		66-130	2		30
p/m-Xylene	102		98		70-130	4		30
o-Xylene	100		97		70-130	3		30
cis-1,2-Dichloroethene	87		85		70-130	2		30
Dibromomethane	86		87		70-130	1		30
Styrene	98		97		70-130	1		30
Dichlorodifluoromethane	92		85		30-146	8		30
Acetone	88		86		54-140	2		30
Carbon disulfide	107		80		59-130	29		30
2-Butanone	77		84		70-130	9		30
Vinyl acetate	71		72		70-130	1		30
4-Methyl-2-pentanone	80		83		70-130	4		30
1,2,3-Trichloropropane	99		101		68-130	2		30
2-Hexanone	80		81		70-130	1		30
Bromochloromethane	92		91		70-130	1		30

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04,07,10,13-14,16-17,19-20,22-23 Batch: WG1113442-3 WG1113442-4								
2,2-Dichloropropane	97		94		70-130	3		30
1,2-Dibromoethane	102		102		70-130	0		30
1,3-Dichloropropane	98		100		69-130	2		30
1,1,1,2-Tetrachloroethane	106		105		70-130	1		30
Bromobenzene	103		103		70-130	0		30
n-Butylbenzene	112		108		70-130	4		30
sec-Butylbenzene	114		109		70-130	4		30
tert-Butylbenzene	112		107		70-130	5		30
o-Chlorotoluene	91		88		70-130	3		30
p-Chlorotoluene	105		103		70-130	2		30
1,2-Dibromo-3-chloropropane	88		92		68-130	4		30
Hexachlorobutadiene	108		106		67-130	2		30
Isopropylbenzene	112		107		70-130	5		30
p-Isopropyltoluene	114		110		70-130	4		30
Naphthalene	98		103		70-130	5		30
Acrylonitrile	78		79		70-130	1		30
n-Propylbenzene	111		107		70-130	4		30
1,2,3-Trichlorobenzene	102		103		70-130	1		30
1,2,4-Trichlorobenzene	104		105		70-130	1		30
1,3,5-Trimethylbenzene	110		106		70-130	4		30
1,2,4-Trimethylbenzene	111		108		70-130	3		30
1,4-Dioxane	93		85		65-136	9		30
p-Diethylbenzene	113		109		70-130	4		30

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04,07,10,13-14,16-17,19-20,22-23 Batch: WG1113442-3 WG1113442-4								
p-Ethyltoluene	111		106		70-130	5		30
1,2,4,5-Tetramethylbenzene	109		108		70-130	1		30
Ethyl ether	87		87		67-130	0		30
trans-1,4-Dichloro-2-butene	90		89		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	95		99		70-130
Toluene-d8	109		109		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	94		95		70-130

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 25-26,28-29,31-32,34-35,37-38,41,43 Batch: WG1113517-3 WG1113517-4								
Methylene chloride	83		81		70-130	2		30
1,1-Dichloroethane	93		90		70-130	3		30
Chloroform	90		88		70-130	2		30
Carbon tetrachloride	95		94		70-130	1		30
1,2-Dichloropropane	92		91		70-130	1		30
Dibromochloromethane	107		107		70-130	0		30
1,1,2-Trichloroethane	109		106		70-130	3		30
Tetrachloroethene	105		101		70-130	4		30
Chlorobenzene	105		103		70-130	2		30
Trichlorofluoromethane	94		91		70-139	3		30
1,2-Dichloroethane	87		86		70-130	1		30
1,1,1-Trichloroethane	94		92		70-130	2		30
Bromodichloromethane	90		89		70-130	1		30
trans-1,3-Dichloropropene	92		92		70-130	0		30
cis-1,3-Dichloropropene	94		93		70-130	1		30
1,1-Dichloropropene	96		92		70-130	4		30
Bromoform	91		93		70-130	2		30
1,1,2,2-Tetrachloroethane	105		104		70-130	1		30
Benzene	92		89		70-130	3		30
Toluene	108		105		70-130	3		30
Ethylbenzene	109		106		70-130	3		30
Chloromethane	79		96		52-130	19		30
Bromomethane	84		88		57-147	5		30

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 25-26,28-29,31-32,34-35,37-38,41,43 Batch: WG1113517-3 WG1113517-4								
Vinyl chloride	93		91		67-130	2		30
Chloroethane	102		102		50-151	0		30
1,1-Dichloroethene	90		87		65-135	3		30
trans-1,2-Dichloroethene	93		90		70-130	3		30
Trichloroethene	93		89		70-130	4		30
1,2-Dichlorobenzene	109		107		70-130	2		30
1,3-Dichlorobenzene	110		108		70-130	2		30
1,4-Dichlorobenzene	107		105		70-130	2		30
Methyl tert butyl ether	86		84		66-130	2		30
p/m-Xylene	107		104		70-130	3		30
o-Xylene	106		103		70-130	3		30
cis-1,2-Dichloroethene	91		90		70-130	1		30
Dibromomethane	91		90		70-130	1		30
Styrene	105		102		70-130	3		30
Dichlorodifluoromethane	86		80		30-146	7		30
Acetone	92		90		54-140	2		30
Carbon disulfide	86		84		59-130	2		30
2-Butanone	89		91		70-130	2		30
Vinyl acetate	75		73		70-130	3		30
4-Methyl-2-pentanone	86		86		70-130	0		30
1,2,3-Trichloropropane	104		103		68-130	1		30
2-Hexanone	85		84		70-130	1		30
Bromochloromethane	96		93		70-130	3		30

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 25-26,28-29,31-32,34-35,37-38,41,43 Batch: WG1113517-3 WG1113517-4								
2,2-Dichloropropane	98		97		70-130	1		30
1,2-Dibromoethane	109		108		70-130	1		30
1,3-Dichloropropane	106		104		69-130	2		30
1,1,1,2-Tetrachloroethane	110		110		70-130	0		30
Bromobenzene	108		107		70-130	1		30
n-Butylbenzene	117		114		70-130	3		30
sec-Butylbenzene	117		114		70-130	3		30
tert-Butylbenzene	115		113		70-130	2		30
o-Chlorotoluene	109		111		70-130	2		30
p-Chlorotoluene	112		110		70-130	2		30
1,2-Dibromo-3-chloropropane	90		91		68-130	1		30
Hexachlorobutadiene	109		109		67-130	0		30
Isopropylbenzene	115		112		70-130	3		30
p-Isopropyltoluene	116		115		70-130	1		30
Naphthalene	102		104		70-130	2		30
Acrylonitrile	84		82		70-130	2		30
n-Propylbenzene	115		112		70-130	3		30
1,2,3-Trichlorobenzene	105		106		70-130	1		30
1,2,4-Trichlorobenzene	107		108		70-130	1		30
1,3,5-Trimethylbenzene	115		112		70-130	3		30
1,2,4-Trimethylbenzene	116		114		70-130	2		30
1,4-Dioxane	88		88		65-136	0		30
p-Diethylbenzene	117		114		70-130	3		30

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 25-26,28-29,31-32,34-35,37-38,41,43 Batch: WG1113517-3 WG1113517-4								
p-Ethyltoluene	116		113		70-130	3		30
1,2,4,5-Tetramethylbenzene	113		113		70-130	0		30
Ethyl ether	87		86		67-130	1		30
trans-1,4-Dichloro-2-butene	95		97		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		97		70-130
Toluene-d8	110		111		70-130
4-Bromofluorobenzene	98		100		70-130
Dibromofluoromethane	94		94		70-130

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 40 Batch: WG1113612-3 WG1113612-4								
Methylene chloride	90		87		70-130	3		30
1,1-Dichloroethane	100		98		70-130	2		30
Chloroform	99		97		70-130	2		30
Carbon tetrachloride	110		108		70-130	2		30
1,2-Dichloropropane	99		98		70-130	1		30
Dibromochloromethane	118		118		70-130	0		30
1,1,2-Trichloroethane	118		116		70-130	2		30
Tetrachloroethene	116		113		70-130	3		30
Chlorobenzene	114		112		70-130	2		30
Trichlorofluoromethane	113		108		70-139	5		30
1,2-Dichloroethane	97		94		70-130	3		30
1,1,1-Trichloroethane	106		104		70-130	2		30
Bromodichloromethane	99		99		70-130	0		30
trans-1,3-Dichloropropene	99		100		70-130	1		30
cis-1,3-Dichloropropene	105		103		70-130	2		30
1,1-Dichloropropene	106		104		70-130	2		30
Bromoform	102		102		70-130	0		30
1,1,2,2-Tetrachloroethane	114		113		70-130	1		30
Benzene	99		97		70-130	2		30
Toluene	117		114		70-130	3		30
Ethylbenzene	118		116		70-130	2		30
Chloromethane	100		79		52-130	23		30
Bromomethane	98		94		57-147	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 40 Batch: WG1113612-3 WG1113612-4								
Vinyl chloride	101		96		67-130	5		30
Chloroethane	117		112		50-151	4		30
1,1-Dichloroethene	102		101		65-135	1		30
trans-1,2-Dichloroethene	102		100		70-130	2		30
Trichloroethene	102		98		70-130	4		30
1,2-Dichlorobenzene	117		115		70-130	2		30
1,3-Dichlorobenzene	119		118		70-130	1		30
1,4-Dichlorobenzene	116		114		70-130	2		30
Methyl tert butyl ether	95		95		66-130	0		30
p/m-Xylene	116		113		70-130	3		30
o-Xylene	114		112		70-130	2		30
cis-1,2-Dichloroethene	100		98		70-130	2		30
Dibromomethane	102		99		70-130	3		30
Styrene	113		112		70-130	1		30
Dichlorodifluoromethane	95		91		30-146	4		30
Acetone	102		89		54-140	14		30
Carbon disulfide	94		91		59-130	3		30
2-Butanone	93		88		70-130	6		30
Vinyl acetate	83		82		70-130	1		30
4-Methyl-2-pentanone	94		93		70-130	1		30
1,2,3-Trichloropropane	113		109		68-130	4		30
2-Hexanone	91		92		70-130	1		30
Bromochloromethane	106		103		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 40 Batch: WG1113612-3 WG1113612-4								
2,2-Dichloropropane	113		111		70-130	2		30
1,2-Dibromoethane	119		118		70-130	1		30
1,3-Dichloropropane	114		112		69-130	2		30
1,1,1,2-Tetrachloroethane	122		121		70-130	1		30
Bromobenzene	119		116		70-130	3		30
n-Butylbenzene	126		124		70-130	2		30
sec-Butylbenzene	128		123		70-130	4		30
tert-Butylbenzene	126		124		70-130	2		30
o-Chlorotoluene	103		101		70-130	2		30
p-Chlorotoluene	119		117		70-130	2		30
1,2-Dibromo-3-chloropropane	100		101		68-130	1		30
Hexachlorobutadiene	120		118		67-130	2		30
Isopropylbenzene	125		123		70-130	2		30
p-Isopropyltoluene	129		125		70-130	3		30
Naphthalene	114		113		70-130	1		30
Acrylonitrile	88		86		70-130	2		30
n-Propylbenzene	125		122		70-130	2		30
1,2,3-Trichlorobenzene	115		115		70-130	0		30
1,2,4-Trichlorobenzene	119		117		70-130	2		30
1,3,5-Trimethylbenzene	124		121		70-130	2		30
1,2,4-Trimethylbenzene	126		124		70-130	2		30
1,4-Dioxane	93		91		65-136	2		30
p-Diethylbenzene	128		125		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 40 Batch: WG1113612-3 WG1113612-4								
p-Ethyltoluene	126		123		70-130	2		30
1,2,4,5-Tetramethylbenzene	125		123		70-130	2		30
Ethyl ether	100		98		67-130	2		30
trans-1,4-Dichloro-2-butene	103		96		70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		98		70-130
Toluene-d8	109		109		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	95		94		70-130

SEMIVOLATILES

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-03
Client ID: TP-11A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 07:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/07/18 08:14
Analyst: SZ
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 03:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	88	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-03
Client ID: TP-11A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 07:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	45	J	ug/kg	110	20.	1
Benzo(a)pyrene	44	J	ug/kg	140	44.	1
Benzo(b)fluoranthene	58	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	47	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	31	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	58	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	31	J	ug/kg	140	25.	1
Pyrene	88	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	88.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-03
Client ID: TP-11A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 07:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	70		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	60		10-136
4-Terphenyl-d14	93		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-06
Client ID: TP-11B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 08:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/07/18 09:08
Analyst: SZ
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 03:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	160		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	1600		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	79	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-06
Client ID: TP-11B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 08:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	780		ug/kg	110	20.	1
Benzo(a)pyrene	680		ug/kg	140	44.	1
Benzo(b)fluoranthene	880		ug/kg	110	30.	1
Benzo(k)fluoranthene	300		ug/kg	110	29.	1
Chrysene	730		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	410		ug/kg	110	35.	1
Benzo(ghi)perylene	440		ug/kg	140	21.	1
Fluorene	160	J	ug/kg	180	18.	1
Phenanthrene	1400		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	100	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	460		ug/kg	140	25.	1
Pyrene	1400		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	98	J	ug/kg	180	17.	1
2-Methylnaphthalene	30	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-06
Client ID: TP-11B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 08:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	180		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	90		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-09
Client ID: TP-13A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 08:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/07/18 08:40
Analyst: SZ
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 03:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	100	J	ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: FORMER BICC **Lab Number:** L1815750

Project Number: 056970006 **Report Date:** 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-09 Date Collected: 05/02/18 08:55

Client ID: TP-13A_COMP Date Received: 05/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	52	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	56	J	ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	44	J	ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	29	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	78	J	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	29	J	ug/kg	150	26.	1
Pyrene	92	J	ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	910	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-09
Client ID: TP-13A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 08:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	92		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-12
Client ID: TP-13B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 09:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/07/18 15:53
Analyst: SZ
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/04/18 17:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	100	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-12
Client ID: TP-13B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 09:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	49	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	54	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	48	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	25	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	79	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	27	J	ug/kg	150	26.	1
Pyrene	92	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: FORMER BICC
Lab Number: L1815750
Project Number: 056970006
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-12
Client ID: TP-13B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 09:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	96		10-136
4-Terphenyl-d14	93		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-15
Client ID: TP-15A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 09:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/07/18 09:34
Analyst: SZ
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 03:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	95	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-15
Client ID: TP-15A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 09:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	52	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	59	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	50	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	28	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	72	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	28	J	ug/kg	150	26.	1
Pyrene	90	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: FORMER BICC
Lab Number: L1815750
Project Number: 056970006
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-15
Client ID: TP-15A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 09:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	92		10-136
4-Terphenyl-d14	88		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-18
Client ID: TP-15B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 09:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/07/18 11:22
Analyst: SZ
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 03:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	35	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-18
Client ID: TP-15B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 09:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	26	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	31	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	21	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	23	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	36	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-18
Client ID: TP-15B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 09:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	92		10-136
4-Terphenyl-d14	92		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-21
Client ID: TP-16_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 10:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/07/18 11:49
Analyst: SZ
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 03:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	20	J	ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	350		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: FORMER BICC **Lab Number:** L1815750

Project Number: 056970006 **Report Date:** 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-21 Date Collected: 05/02/18 10:35

Client ID: TP-16_COMP Date Received: 05/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	180		ug/kg	110	20.	1
Benzo(a)pyrene	170		ug/kg	140	43.	1
Benzo(b)fluoranthene	210		ug/kg	110	30.	1
Benzo(k)fluoranthene	73	J	ug/kg	110	28.	1
Chrysene	180		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	60	J	ug/kg	110	35.	1
Benzo(ghi)perylene	100	J	ug/kg	140	21.	1
Fluorene	18	J	ug/kg	180	17.	1
Phenanthrene	240		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	29	J	ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	110	J	ug/kg	140	25.	1
Pyrene	340		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: FORMER BICC
Lab Number: L1815750
Project Number: 056970006
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-21
Client ID: TP-16_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 10:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	25	J	ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	102		10-136
4-Terphenyl-d14	95		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-24
Client ID: TP-17A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 11:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/09/18 05:16
Analyst: PS
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 05/08/18 19:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	74	J	ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	190		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	29	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: FORMER BICC **Lab Number:** L1815750

Project Number: 056970006 **Report Date:** 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-24 Date Collected: 05/02/18 11:50

Client ID: TP-17A_COMP Date Received: 05/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	56	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	70	J	ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	63	J	ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	24	J	ug/kg	150	22.	1
Fluorene	34	J	ug/kg	190	18.	1
Phenanthrene	390		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	26	J	ug/kg	150	26.	1
Pyrene	140		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	61	J	ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	900	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	50	J	ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-24
Client ID: TP-17A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 11:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	23	J	ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	**19**	Q	25-120
Phenol-d6	56		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	11		10-136
4-Terphenyl-d14	85		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-27
Client ID: TP-17B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 11:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/07/18 12:43
Analyst: SZ
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 03:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	160		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	390		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	130	J	ug/kg	180	23.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	47.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-27
Client ID: TP-17B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 11:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	84	J	ug/kg	110	21.	1
Benzo(a)pyrene	52	J	ug/kg	150	45.	1
Benzo(b)fluoranthene	89	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	90	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	70	J	ug/kg	110	36.	1
Benzo(ghi)perylene	36	J	ug/kg	150	22.	1
Fluorene	99	J	ug/kg	180	18.	1
Phenanthrene	710		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	39	J	ug/kg	150	26.	1
Pyrene	270		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	77.	1
Dibenzofuran	140	J	ug/kg	180	18.	1
2-Methylnaphthalene	53	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-27
Client ID: TP-17B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 11:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	36.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	66	J	ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	52		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	41		10-136
4-Terphenyl-d14	83		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-30
Client ID: TP-18A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 12:45
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/07/18 13:10
Analyst: SZ
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 03:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	66	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-30
Client ID: TP-18A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 12:45
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	35	J	ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	38	J	ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	36	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	44	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	62	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-30
Client ID: TP-18A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 12:45
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	89		25-120
Phenol-d6	93		10-120
Nitrobenzene-d5	104		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	108		10-136
4-Terphenyl-d14	95		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-33
Client ID: TP-18B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 12:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/07/18 13:37
Analyst: SZ
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 03:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	35	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
1,2-Dichlorobenzene	ND		ug/kg	190	33.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	470		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	30	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	64.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	35.	1
Di-n-octylphthalate	ND		ug/kg	190	63.	1

Project Name: FORMER BICC **Lab Number:** L1815750

Project Number: 056970006 **Report Date:** 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-33 Date Collected: 05/02/18 12:50

Client ID: TP-18B_COMP Date Received: 05/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	230		ug/kg	110	21.	1
Benzo(a)pyrene	190		ug/kg	150	45.	1
Benzo(b)fluoranthene	240		ug/kg	110	31.	1
Benzo(k)fluoranthene	84	J	ug/kg	110	30.	1
Chrysene	220		ug/kg	110	19.	1
Acenaphthylene	31	J	ug/kg	150	29.	1
Anthracene	92	J	ug/kg	110	36.	1
Benzo(ghi)perylene	110	J	ug/kg	150	22.	1
Fluorene	38	J	ug/kg	190	18.	1
Phenanthrene	360		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	30	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	120	J	ug/kg	150	26.	1
Pyrene	440		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	77.	1
Dibenzofuran	28	J	ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	19.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-33
Client ID: TP-18B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 12:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	35	J	ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	98		10-136
4-Terphenyl-d14	93		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-36
Client ID: TP-19A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 13:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/07/18 14:04
Analyst: SZ
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 03:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	51	J	ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	570		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	23	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-36
Client ID: TP-19A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 13:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	230		ug/kg	110	20.	1
Benzo(a)pyrene	190		ug/kg	140	44.	1
Benzo(b)fluoranthene	240		ug/kg	110	31.	1
Benzo(k)fluoranthene	72	J	ug/kg	110	29.	1
Chrysene	230		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	140		ug/kg	110	36.	1
Benzo(ghi)perylene	110	J	ug/kg	140	21.	1
Fluorene	44	J	ug/kg	180	18.	1
Phenanthrene	540		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	28	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	120	J	ug/kg	140	25.	1
Pyrene	500		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	34	J	ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	88.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-36
Client ID: TP-19A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 13:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	44	J	ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	102		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	99		10-136
4-Terphenyl-d14	96		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-39
Client ID: TP-19B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 14:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/07/18 14:31
Analyst: SZ
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 03:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	52	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	64.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	35.	1
Di-n-octylphthalate	ND		ug/kg	190	63.	1

Project Name: FORMER BICC **Lab Number:** L1815750

Project Number: 056970006 **Report Date:** 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-39 Date Collected: 05/02/18 14:00

Client ID: TP-19B_COMP Date Received: 05/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	27	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	28	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	40	J	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	48	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	77.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	19.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	900	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-39
Client ID: TP-19B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 14:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	ND		ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	90		25-120
Phenol-d6	94		10-120
Nitrobenzene-d5	104		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	97		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-42
Client ID: TP-21_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 14:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/07/18 14:58
Analyst: SZ
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 03:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	95	J	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-42
Client ID: TP-21_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 14:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	54	J	ug/kg	110	20.	1
Benzo(a)pyrene	48	J	ug/kg	140	44.	1
Benzo(b)fluoranthene	65	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	50	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	32	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	50	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	34	J	ug/kg	140	25.	1
Pyrene	95	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-42
Client ID: TP-21_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 14:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	96		10-136
4-Terphenyl-d14	93		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-44
Client ID: TPX-_050218-C
Sample Location: YONKERS, NY

Date Collected: 05/02/18 00:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/07/18 15:26
Analyst: SZ
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 03:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	480		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: FORMER BICC **Lab Number:** L1815750

Project Number: 056970006 **Report Date:** 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-44 Date Collected: 05/02/18 00:00

Client ID: TPX-_050218-C Date Received: 05/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	160		ug/kg	110	20.	1
Benzo(a)pyrene	140		ug/kg	140	44.	1
Benzo(b)fluoranthene	200		ug/kg	110	30.	1
Benzo(k)fluoranthene	66	J	ug/kg	110	29.	1
Chrysene	150		ug/kg	110	19.	1
Acenaphthylene	46	J	ug/kg	140	28.	1
Anthracene	64	J	ug/kg	110	35.	1
Benzo(ghi)perylene	100	J	ug/kg	140	21.	1
Fluorene	50	J	ug/kg	180	18.	1
Phenanthrene	480		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	23	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	110	J	ug/kg	140	25.	1
Pyrene	350		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	40	J	ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-44
Client ID: TPX-_050218-C
Sample Location: YONKERS, NY
Date Collected: 05/02/18 00:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	49	J	ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	87		25-120
Phenol-d6	91		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	99		10-136
4-Terphenyl-d14	96		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-45
Client ID: FB01
Sample Location: YONKERS, NY

Date Collected: 05/02/18 15:15
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 05/04/18 15:54
Analyst: RC

Extraction Method: EPA 3510C
Extraction Date: 05/03/18 08:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	0.59	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Hexachlorobenzene	ND		ug/l	2.0	0.58	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
2-Chloronaphthalene	ND		ug/l	2.0	0.64	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
Fluoranthene	ND		ug/l	2.0	0.57	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorobutadiene	ND		ug/l	2.0	0.72	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Hexachloroethane	ND		ug/l	2.0	0.68	1
Isophorone	ND		ug/l	5.0	0.60	1
Naphthalene	ND		ug/l	2.0	0.68	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1

Project Name: FORMER BICC **Lab Number:** L1815750

Project Number: 056970006 **Report Date:** 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-45 Date Collected: 05/02/18 15:15

Client ID: FB01 Date Received: 05/02/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Benzo(a)anthracene	ND		ug/l	2.0	0.61	1
Benzo(a)pyrene	ND		ug/l	2.0	0.54	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.64	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.60	1
Chrysene	ND		ug/l	2.0	0.54	1
Acenaphthylene	ND		ug/l	2.0	0.66	1
Anthracene	ND		ug/l	2.0	0.64	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.61	1
Fluorene	ND		ug/l	2.0	0.62	1
Phenanthrene	ND		ug/l	2.0	0.61	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.55	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.71	1
Pyrene	ND		ug/l	2.0	0.57	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
2-Methylnaphthalene	ND		ug/l	2.0	0.72	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Pentachlorophenol	ND		ug/l	10	3.4	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-45
Client ID: FB01
Sample Location: YONKERS, NY
Date Collected: 05/02/18 15:15
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	66		10-120
4-Terphenyl-d14	72		41-149

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/03/18 23:59
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 05/03/18 01:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03,06,09,15,18,21,27,30,33,36,39,42,44 Batch: WG1112049-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	100	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/03/18 23:59
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 05/03/18 01:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03,06,09,15,18,21,27,30,33,36,39,42,44 Batch: WG1112049-1					
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	69.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	100	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/03/18 23:59
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 05/03/18 01:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03,06,09,15,18,21,27,30,33,36,39,42,44 Batch: WG1112049-1					
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	78		18-120

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/04/18 11:00
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 05/03/18 08:21

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 45 Batch: WG1112157-1					
Acenaphthene	ND		ug/l	2.0	0.59
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66
Hexachlorobenzene	ND		ug/l	2.0	0.58
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67
2-Chloronaphthalene	ND		ug/l	2.0	0.64
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1
Fluoranthene	ND		ug/l	2.0	0.57
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63
Hexachlorobutadiene	ND		ug/l	2.0	0.72
Hexachlorocyclopentadiene	ND		ug/l	20	7.8
Hexachloroethane	ND		ug/l	2.0	0.68
Isophorone	ND		ug/l	5.0	0.60
Naphthalene	ND		ug/l	2.0	0.68
Nitrobenzene	ND		ug/l	2.0	0.75
NDPA/DPA	ND		ug/l	2.0	0.64
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91
Butyl benzyl phthalate	ND		ug/l	5.0	1.3
Di-n-butylphthalate	ND		ug/l	5.0	0.69
Di-n-octylphthalate	ND		ug/l	5.0	1.1
Diethyl phthalate	ND		ug/l	5.0	0.63

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/04/18 11:00
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 05/03/18 08:21

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 45 Batch: WG1112157-1					
Dimethyl phthalate	ND		ug/l	5.0	0.65
Benzo(a)anthracene	ND		ug/l	2.0	0.61
Benzo(a)pyrene	ND		ug/l	2.0	0.54
Benzo(b)fluoranthene	ND		ug/l	2.0	0.64
Benzo(k)fluoranthene	ND		ug/l	2.0	0.60
Chrysene	ND		ug/l	2.0	0.54
Acenaphthylene	ND		ug/l	2.0	0.66
Anthracene	ND		ug/l	2.0	0.64
Benzo(ghi)perylene	ND		ug/l	2.0	0.61
Fluorene	ND		ug/l	2.0	0.62
Phenanthrene	ND		ug/l	2.0	0.61
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.55
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.71
Pyrene	ND		ug/l	2.0	0.57
Biphenyl	ND		ug/l	2.0	0.76
4-Chloroaniline	ND		ug/l	5.0	0.63
2-Nitroaniline	ND		ug/l	5.0	1.1
3-Nitroaniline	ND		ug/l	5.0	1.2
4-Nitroaniline	ND		ug/l	5.0	1.3
Dibenzofuran	ND		ug/l	2.0	0.66
2-Methylnaphthalene	ND		ug/l	2.0	0.72
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67
Acetophenone	ND		ug/l	5.0	0.85
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68
p-Chloro-m-cresol	ND		ug/l	2.0	0.62
2-Chlorophenol	ND		ug/l	2.0	0.63
2,4-Dichlorophenol	ND		ug/l	5.0	0.77
2,4-Dimethylphenol	ND		ug/l	5.0	1.6
2-Nitrophenol	ND		ug/l	10	1.5

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/04/18 11:00
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 05/03/18 08:21

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 45 Batch: WG1112157-1					
4-Nitrophenol	ND		ug/l	10	1.8
2,4-Dinitrophenol	ND		ug/l	20	5.5
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1
Pentachlorophenol	ND		ug/l	10	3.4
Phenol	ND		ug/l	5.0	1.9
2-Methylphenol	ND		ug/l	5.0	1.0
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72
Benzoic Acid	ND		ug/l	50	13.
Benzyl Alcohol	ND		ug/l	2.0	0.72
Carbazole	ND		ug/l	2.0	0.63
Tentatively Identified Compounds					
Total TIC Compounds	5.06	J	ug/l		
Aldol Condensates	5.06	J	ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	69		15-120
2,4,6-Tribromophenol	63		10-120
4-Terphenyl-d14	81		41-149

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/09/18 00:30
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 05/04/18 17:31

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1112768-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/09/18 00:30
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 05/04/18 17:31

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1112768-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	62.

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/09/18 00:30
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 05/04/18 17:31

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 12 Batch: WG1112768-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	92		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	108		18-120

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/09/18 01:52
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 05/08/18 19:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 24 Batch: WG1113848-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/09/18 01:52
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 05/08/18 19:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 24 Batch: WG1113848-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/09/18 01:52
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 05/08/18 19:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 24 Batch: WG1113848-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	86		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,06,09,15,18,21,27,30,33,36,39,42,44 Batch: WG1112049-2 WG1112049-3								
Acenaphthene	60		62		31-137	3		50
1,2,4-Trichlorobenzene	61		65		38-107	6		50
Hexachlorobenzene	74		80		40-140	8		50
Bis(2-chloroethyl)ether	57		61		40-140	7		50
2-Chloronaphthalene	65		66		40-140	2		50
1,2-Dichlorobenzene	55		58		40-140	5		50
1,3-Dichlorobenzene	54		57		40-140	5		50
1,4-Dichlorobenzene	54		57		28-104	5		50
3,3'-Dichlorobenzidine	56		59		40-140	5		50
2,4-Dinitrotoluene	73		76		40-132	4		50
2,6-Dinitrotoluene	75		79		40-140	5		50
Fluoranthene	69		72		40-140	4		50
4-Chlorophenyl phenyl ether	70		73		40-140	4		50
4-Bromophenyl phenyl ether	74		78		40-140	5		50
Bis(2-chloroisopropyl)ether	65		69		40-140	6		50
Bis(2-chloroethoxy)methane	63		66		40-117	5		50
Hexachlorobutadiene	71		72		40-140	1		50
Hexachlorocyclopentadiene	46		48		40-140	4		50
Hexachloroethane	53		55		40-140	4		50
Isophorone	66		69		40-140	4		50
Naphthalene	58		61		40-140	5		50
Nitrobenzene	66		70		40-140	6		50
NDPA/DPA	66		68		36-157	3		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,06,09,15,18,21,27,30,33,36,39,42,44 Batch: WG1112049-2 WG1112049-3								
n-Nitrosodi-n-propylamine	67		71		32-121	6		50
Bis(2-ethylhexyl)phthalate	57		60		40-140	5		50
Butyl benzyl phthalate	64		67		40-140	5		50
Di-n-butylphthalate	62		64		40-140	3		50
Di-n-octylphthalate	59		62		40-140	5		50
Diethyl phthalate	61		64		40-140	5		50
Dimethyl phthalate	66		68		40-140	3		50
Benzo(a)anthracene	62		66		40-140	6		50
Benzo(a)pyrene	65		69		40-140	6		50
Benzo(b)fluoranthene	63		67		40-140	6		50
Benzo(k)fluoranthene	63		69		40-140	9		50
Chrysene	61		65		40-140	6		50
Acenaphthylene	67		70		40-140	4		50
Anthracene	63		65		40-140	3		50
Benzo(ghi)perylene	59		64		40-140	8		50
Fluorene	64		67		40-140	5		50
Phenanthrene	60		63		40-140	5		50
Dibenzo(a,h)anthracene	59		64		40-140	8		50
Indeno(1,2,3-cd)pyrene	60		65		40-140	8		50
Pyrene	68		70		35-142	3		50
Biphenyl	64		66		54-104	3		50
4-Chloroaniline	55		59		40-140	7		50
2-Nitroaniline	73		75		47-134	3		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,06,09,15,18,21,27,30,33,36,39,42,44 Batch: WG1112049-2 WG1112049-3								
3-Nitroaniline	56		59		26-129	5		50
4-Nitroaniline	60		63		41-125	5		50
Dibenzofuran	62		66		40-140	6		50
2-Methylnaphthalene	62		63		40-140	2		50
1,2,4,5-Tetrachlorobenzene	73		76		40-117	4		50
Acetophenone	62		66		14-144	6		50
2,4,6-Trichlorophenol	72		76		30-130	5		50
p-Chloro-m-cresol	69		72		26-103	4		50
2-Chlorophenol	60		64		25-102	6		50
2,4-Dichlorophenol	64		68		30-130	6		50
2,4-Dimethylphenol	66		70		30-130	6		50
2-Nitrophenol	64		68		30-130	6		50
4-Nitrophenol	75		76		11-114	1		50
2,4-Dinitrophenol	15		14		4-130	7		50
4,6-Dinitro-o-cresol	29		33		10-130	13		50
Pentachlorophenol	81		80		17-109	1		50
Phenol	61		65		26-90	6		50
2-Methylphenol	64		67		30-130.	5		50
3-Methylphenol/4-Methylphenol	64		67		30-130	5		50
2,4,5-Trichlorophenol	79		81		30-130	3		50
Benzoic Acid	14		10		10-110	33		50
Benzyl Alcohol	68		72		40-140	6		50
Carbazole	60		62		54-128	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,06,09,15,18,21,27,30,33,36,39,42,44 Batch: WG1112049-2 WG1112049-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	58		63		25-120
Phenol-d6	65		69		10-120
Nitrobenzene-d5	68		72		23-120
2-Fluorobiphenyl	68		72		30-120
2,4,6-Tribromophenol	80		82		10-136
4-Terphenyl-d14	79		84		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 45 Batch: WG1112157-2 WG1112157-3								
Acenaphthene	77		71		37-111	8		30
1,2,4-Trichlorobenzene	73		63		39-98	15		30
Hexachlorobenzene	78		74		40-140	5		30
Bis(2-chloroethyl)ether	73		63		40-140	15		30
2-Chloronaphthalene	74		68		40-140	8		30
1,2-Dichlorobenzene	74		62		40-140	18		30
1,3-Dichlorobenzene	72		60		40-140	18		30
1,4-Dichlorobenzene	72		60		36-97	18		30
3,3'-Dichlorobenzidine	65		60		40-140	8		30
2,4-Dinitrotoluene	80		76		48-143	5		30
2,6-Dinitrotoluene	79		75		40-140	5		30
Fluoranthene	82		75		40-140	9		30
4-Chlorophenyl phenyl ether	78		73		40-140	7		30
4-Bromophenyl phenyl ether	82		77		40-140	6		30
Bis(2-chloroisopropyl)ether	75		64		40-140	16		30
Bis(2-chloroethoxy)methane	75		67		40-140	11		30
Hexachlorobutadiene	75		65		40-140	14		30
Hexachlorocyclopentadiene	79		68		40-140	15		30
Hexachloroethane	71		60		40-140	17		30
Isophorone	76		67		40-140	13		30
Naphthalene	74		65		40-140	13		30
Nitrobenzene	72		62		40-140	15		30
NDPA/DPA	78		72		40-140	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 45 Batch: WG1112157-2 WG1112157-3								
n-Nitrosodi-n-propylamine	75		65		29-132	14		30
Bis(2-ethylhexyl)phthalate	90		85		40-140	6		30
Butyl benzyl phthalate	86		80		40-140	7		30
Di-n-butylphthalate	84		78		40-140	7		30
Di-n-octylphthalate	90		84		40-140	7		30
Diethyl phthalate	80		74		40-140	8		30
Dimethyl phthalate	79		74		40-140	7		30
Benzo(a)anthracene	81		75		40-140	8		30
Benzo(a)pyrene	79		74		40-140	7		30
Benzo(b)fluoranthene	78		73		40-140	7		30
Benzo(k)fluoranthene	82		76		40-140	8		30
Chrysene	80		76		40-140	5		30
Acenaphthylene	78		71		45-123	9		30
Anthracene	82		76		40-140	8		30
Benzo(ghi)perylene	81		75		40-140	8		30
Fluorene	77		72		40-140	7		30
Phenanthrene	81		75		40-140	8		30
Dibenzo(a,h)anthracene	80		75		40-140	6		30
Indeno(1,2,3-cd)pyrene	83		74		40-140	11		30
Pyrene	81		74		26-127	9		30
Biphenyl	78		71		40-140	9		30
4-Chloroaniline	68		62		40-140	9		30
2-Nitroaniline	79		73		52-143	8		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 45 Batch: WG1112157-2 WG1112157-3								
3-Nitroaniline	69		64		25-145	8		30
4-Nitroaniline	75		71		51-143	5		30
Dibenzofuran	78		72		40-140	8		30
2-Methylnaphthalene	76		69		40-140	10		30
1,2,4,5-Tetrachlorobenzene	78		70		2-134	11		30
Acetophenone	77		68		39-129	12		30
2,4,6-Trichlorophenol	79		72		30-130	9		30
p-Chloro-m-cresol	78		70		23-97	11		30
2-Chlorophenol	72		62		27-123	15		30
2,4-Dichlorophenol	77		68		30-130	12		30
2,4-Dimethylphenol	75		66		30-130	13		30
2-Nitrophenol	75		66		30-130	13		30
4-Nitrophenol	47		44		10-80	7		30
2,4-Dinitrophenol	54		51		20-130	6		30
4,6-Dinitro-o-cresol	84		76		20-164	10		30
Pentachlorophenol	66		60		9-103	10		30
Phenol	36		32		12-110	12		30
2-Methylphenol	68		60		30-130	13		30
3-Methylphenol/4-Methylphenol	64		57		30-130	12		30
2,4,5-Trichlorophenol	82		74		30-130	10		30
Benzoic Acid	24		22		10-164	9		30
Benzyl Alcohol	67		60		26-116	11		30
Carbazole	82		76		55-144	8		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 45 Batch: WG1112157-2 WG1112157-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	50		43		21-120
Phenol-d6	33		30		10-120
Nitrobenzene-d5	72		63		23-120
2-Fluorobiphenyl	77		71		15-120
2,4,6-Tribromophenol	79		74		10-120
4-Terphenyl-d14	88		83		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1112768-2 WG1112768-3								
Acenaphthene	77		78		31-137	1		50
1,2,4-Trichlorobenzene	72		73		38-107	1		50
Hexachlorobenzene	81		79		40-140	3		50
Bis(2-chloroethyl)ether	72		74		40-140	3		50
2-Chloronaphthalene	76		78		40-140	3		50
1,2-Dichlorobenzene	73		75		40-140	3		50
1,3-Dichlorobenzene	73		74		40-140	1		50
1,4-Dichlorobenzene	73		73		28-104	0		50
3,3'-Dichlorobenzidine	62		65		40-140	5		50
2,4-Dinitrotoluene	99		98		40-132	1		50
2,6-Dinitrotoluene	92		89		40-140	3		50
Fluoranthene	82		82		40-140	0		50
4-Chlorophenyl phenyl ether	80		79		40-140	1		50
4-Bromophenyl phenyl ether	82		82		40-140	0		50
Bis(2-chloroisopropyl)ether	73		74		40-140	1		50
Bis(2-chloroethoxy)methane	74		76		40-117	3		50
Hexachlorobutadiene	76		79		40-140	4		50
Hexachlorocyclopentadiene	90		91		40-140	1		50
Hexachloroethane	76		80		40-140	5		50
Isophorone	76		77		40-140	1		50
Naphthalene	76		77		40-140	1		50
Nitrobenzene	82		83		40-140	1		50
NDPA/DPA	82		82		36-157	0		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1112768-2 WG1112768-3								
n-Nitrosodi-n-propylamine	75		77		32-121	3		50
Bis(2-ethylhexyl)phthalate	91		92		40-140	1		50
Butyl benzyl phthalate	92		92		40-140	0		50
Di-n-butylphthalate	86		88		40-140	2		50
Di-n-octylphthalate	89		91		40-140	2		50
Diethyl phthalate	83		82		40-140	1		50
Dimethyl phthalate	81		80		40-140	1		50
Benzo(a)anthracene	80		82		40-140	2		50
Benzo(a)pyrene	84		87		40-140	4		50
Benzo(b)fluoranthene	80		83		40-140	4		50
Benzo(k)fluoranthene	85		85		40-140	0		50
Chrysene	79		80		40-140	1		50
Acenaphthylene	84		83		40-140	1		50
Anthracene	83		83		40-140	0		50
Benzo(ghi)perylene	82		82		40-140	0		50
Fluorene	82		82		40-140	0		50
Phenanthrene	77		79		40-140	3		50
Dibenzo(a,h)anthracene	82		84		40-140	2		50
Indeno(1,2,3-cd)pyrene	82		85		40-140	4		50
Pyrene	79		79		35-142	0		50
Biphenyl	79		80		54-104	1		50
4-Chloroaniline	65		83		40-140	24		50
2-Nitroaniline	95		94		47-134	1		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1112768-2 WG1112768-3								
3-Nitroaniline	66		68		26-129	3		50
4-Nitroaniline	82		80		41-125	2		50
Dibenzofuran	79		79		40-140	0		50
2-Methylnaphthalene	78		79		40-140	1		50
1,2,4,5-Tetrachlorobenzene	79		80		40-117	1		50
Acetophenone	79		79		14-144	0		50
2,4,6-Trichlorophenol	86		86		30-130	0		50
p-Chloro-m-cresol	87		89		26-103	2		50
2-Chlorophenol	81		82		25-102	1		50
2,4-Dichlorophenol	85		86		30-130	1		50
2,4-Dimethylphenol	85		88		30-130	3		50
2-Nitrophenol	95		97		30-130	2		50
4-Nitrophenol	109		109		11-114	0		50
2,4-Dinitrophenol	101		98		4-130	3		50
4,6-Dinitro-o-cresol	110		108		10-130	2		50
Pentachlorophenol	75		74		17-109	1		50
Phenol	81		84		26-90	4		50
2-Methylphenol	82		83		30-130.	1		50
3-Methylphenol/4-Methylphenol	87		87		30-130	0		50
2,4,5-Trichlorophenol	89		89		30-130	0		50
Benzoic Acid	64		71		10-110	10		50
Benzyl Alcohol	83		83		40-140	0		50
Carbazole	81		83		54-128	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 12 Batch: WG1112768-2 WG1112768-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	76		76		25-120
Phenol-d6	77		80		10-120
Nitrobenzene-d5	81		82		23-120
2-Fluorobiphenyl	79		79		30-120
2,4,6-Tribromophenol	89		85		10-136
4-Terphenyl-d14	84		86		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 24 Batch: WG1113848-2 WG1113848-3								
Acenaphthene	60		67		31-137	11		50
1,2,4-Trichlorobenzene	62		69		38-107	11		50
Hexachlorobenzene	63		68		40-140	8		50
Bis(2-chloroethyl)ether	64		72		40-140	12		50
2-Chloronaphthalene	66		73		40-140	10		50
1,2-Dichlorobenzene	60		67		40-140	11		50
1,3-Dichlorobenzene	59		67		40-140	13		50
1,4-Dichlorobenzene	59		67		28-104	13		50
3,3'-Dichlorobenzidine	54		58		40-140	7		50
2,4-Dinitrotoluene	81		90		40-132	11		50
2,6-Dinitrotoluene	81		90		40-140	11		50
Fluoranthene	65		73		40-140	12		50
4-Chlorophenyl phenyl ether	62		69		40-140	11		50
4-Bromophenyl phenyl ether	64		70		40-140	9		50
Bis(2-chloroisopropyl)ether	80		88		40-140	10		50
Bis(2-chloroethoxy)methane	66		72		40-117	9		50
Hexachlorobutadiene	62		68		40-140	9		50
Hexachlorocyclopentadiene	57		65		40-140	13		50
Hexachloroethane	60		68		40-140	13		50
Isophorone	66		73		40-140	10		50
Naphthalene	61		68		40-140	11		50
Nitrobenzene	68		75		40-140	10		50
NDPA/DPA	63		70		36-157	11		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 24 Batch: WG1113848-2 WG1113848-3								
n-Nitrosodi-n-propylamine	65		71		32-121	9		50
Bis(2-ethylhexyl)phthalate	70		79		40-140	12		50
Butyl benzyl phthalate	69		77		40-140	11		50
Di-n-butylphthalate	66		74		40-140	11		50
Di-n-octylphthalate	68		77		40-140	12		50
Diethyl phthalate	63		69		40-140	9		50
Dimethyl phthalate	67		76		40-140	13		50
Benzo(a)anthracene	62		70		40-140	12		50
Benzo(a)pyrene	63		71		40-140	12		50
Benzo(b)fluoranthene	62		71		40-140	14		50
Benzo(k)fluoranthene	62		70		40-140	12		50
Chrysene	63		70		40-140	11		50
Acenaphthylene	67		75		40-140	11		50
Anthracene	64		71		40-140	10		50
Benzo(ghi)perylene	61		68		40-140	11		50
Fluorene	64		71		40-140	10		50
Phenanthrene	63		70		40-140	11		50
Dibenzo(a,h)anthracene	60		68		40-140	13		50
Indeno(1,2,3-cd)pyrene	61		69		40-140	12		50
Pyrene	64		72		35-142	12		50
Biphenyl	66		73		54-104	10		50
4-Chloroaniline	59		64		40-140	8		50
2-Nitroaniline	82		92		47-134	11		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 24 Batch: WG1113848-2 WG1113848-3								
3-Nitroaniline	65		69		26-129	6		50
4-Nitroaniline	73		79		41-125	8		50
Dibenzofuran	63		70		40-140	11		50
2-Methylnaphthalene	63		71		40-140	12		50
1,2,4,5-Tetrachlorobenzene	65		72		40-117	10		50
Acetophenone	67		74		14-144	10		50
2,4,6-Trichlorophenol	70		78		30-130	11		50
p-Chloro-m-cresol	68		76		26-103	11		50
2-Chlorophenol	65		72		25-102	10		50
2,4-Dichlorophenol	71		78		30-130	9		50
2,4-Dimethylphenol	69		76		30-130	10		50
2-Nitrophenol	78		87		30-130	11		50
4-Nitrophenol	76		84		11-114	10		50
2,4-Dinitrophenol	64		73		4-130	13		50
4,6-Dinitro-o-cresol	79		90		10-130	13		50
Pentachlorophenol	60		65		17-109	8		50
Phenol	62		69		26-90	11		50
2-Methylphenol	68		74		30-130.	8		50
3-Methylphenol/4-Methylphenol	68		75		30-130	10		50
2,4,5-Trichlorophenol	70		79		30-130	12		50
Benzoic Acid	39		48		10-110	21		50
Benzyl Alcohol	67		74		40-140	10		50
Carbazole	67		74		54-128	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 24 Batch: WG1113848-2 WG1113848-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	62		70		25-120
Phenol-d6	65		72		10-120
Nitrobenzene-d5	69		77		23-120
2-Fluorobiphenyl	66		74		30-120
2,4,6-Tribromophenol	66		73		10-136
4-Terphenyl-d14	70		79		18-120

PCBS

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-03
Client ID: TP-11A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 07:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 20:15
Analyst: HT
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:00
Cleanup Method: EPA 3665A
Cleanup Date: 05/03/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.9	4.07	1	A
Aroclor 1221	ND		ug/kg	35.9	5.46	1	A
Aroclor 1232	ND		ug/kg	35.9	3.53	1	A
Aroclor 1242	ND		ug/kg	35.9	4.39	1	A
Aroclor 1248	ND		ug/kg	35.9	4.03	1	A
Aroclor 1254	ND		ug/kg	35.9	2.93	1	A
Aroclor 1260	ND		ug/kg	35.9	3.75	1	A
Aroclor 1262	ND		ug/kg	35.9	2.95	1	A
Aroclor 1268	ND		ug/kg	35.9	2.54	1	A
PCBs, Total	ND		ug/kg	35.9	2.54	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-06
Client ID: TP-11B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 08:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 20:27
Analyst: HT
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:00
Cleanup Method: EPA 3665A
Cleanup Date: 05/03/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.4	4.02	1	A
Aroclor 1221	ND		ug/kg	35.4	5.39	1	A
Aroclor 1232	ND		ug/kg	35.4	3.49	1	A
Aroclor 1242	ND		ug/kg	35.4	4.34	1	A
Aroclor 1248	ND		ug/kg	35.4	3.98	1	A
Aroclor 1254	11.1	J	ug/kg	35.4	2.89	1	A
Aroclor 1260	7.35	J	ug/kg	35.4	3.70	1	A
Aroclor 1262	ND		ug/kg	35.4	2.91	1	A
Aroclor 1268	ND		ug/kg	35.4	2.51	1	A
PCBs, Total	18.5	J	ug/kg	35.4	2.51	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	102		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-09
Client ID: TP-13A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 08:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 20:40
Analyst: HT
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:00
Cleanup Method: EPA 3665A
Cleanup Date: 05/03/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.6	4.38	1	A
Aroclor 1221	ND		ug/kg	38.6	5.87	1	A
Aroclor 1232	ND		ug/kg	38.6	3.80	1	A
Aroclor 1242	ND		ug/kg	38.6	4.72	1	A
Aroclor 1248	ND		ug/kg	38.6	4.33	1	A
Aroclor 1254	ND		ug/kg	38.6	3.15	1	A
Aroclor 1260	5.40	J	ug/kg	38.6	4.03	1	A
Aroclor 1262	ND		ug/kg	38.6	3.17	1	A
Aroclor 1268	ND		ug/kg	38.6	2.73	1	A
PCBs, Total	5.40	J	ug/kg	38.6	2.73	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	104		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-12
Client ID: TP-13B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 09:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/07/18 05:17
Analyst: KB
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/05/18 07:01
Cleanup Method: EPA 3665A
Cleanup Date: 05/05/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.9	4.18	1	A
Aroclor 1221	ND		ug/kg	36.9	5.61	1	A
Aroclor 1232	ND		ug/kg	36.9	3.63	1	A
Aroclor 1242	ND		ug/kg	36.9	4.51	1	A
Aroclor 1248	ND		ug/kg	36.9	4.14	1	A
Aroclor 1254	ND		ug/kg	36.9	3.01	1	A
Aroclor 1260	ND		ug/kg	36.9	3.85	1	B
Aroclor 1262	ND		ug/kg	36.9	3.03	1	A
Aroclor 1268	3.48	J	ug/kg	36.9	2.61	1	A
PCBs, Total	3.48	J	ug/kg	36.9	2.61	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	107		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-15
Client ID: TP-15A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 09:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 20:52
Analyst: HT
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:00
Cleanup Method: EPA 3665A
Cleanup Date: 05/03/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.1	3.98	1	A
Aroclor 1221	ND		ug/kg	35.1	5.35	1	A
Aroclor 1232	ND		ug/kg	35.1	3.46	1	A
Aroclor 1242	ND		ug/kg	35.1	4.30	1	A
Aroclor 1248	ND		ug/kg	35.1	3.94	1	A
Aroclor 1254	9.53	J	ug/kg	35.1	2.87	1	A
Aroclor 1260	11.8	J	ug/kg	35.1	3.67	1	A
Aroclor 1262	ND		ug/kg	35.1	2.89	1	A
Aroclor 1268	ND		ug/kg	35.1	2.49	1	A
PCBs, Total	21.3	J	ug/kg	35.1	2.49	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	106		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-18
Client ID: TP-15B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 09:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 21:04
Analyst: HT
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:00
Cleanup Method: EPA 3665A
Cleanup Date: 05/03/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	4.11	1	A
Aroclor 1221	ND		ug/kg	36.2	5.52	1	A
Aroclor 1232	ND		ug/kg	36.2	3.57	1	A
Aroclor 1242	ND		ug/kg	36.2	4.44	1	A
Aroclor 1248	ND		ug/kg	36.2	4.07	1	A
Aroclor 1254	ND		ug/kg	36.2	2.96	1	A
Aroclor 1260	ND		ug/kg	36.2	3.78	1	A
Aroclor 1262	ND		ug/kg	36.2	2.98	1	A
Aroclor 1268	ND		ug/kg	36.2	2.57	1	A
PCBs, Total	ND		ug/kg	36.2	2.57	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	109		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-21
Client ID: TP-16_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 10:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 21:17
Analyst: HT
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:00
Cleanup Method: EPA 3665A
Cleanup Date: 05/03/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.7	3.82	1	A
Aroclor 1221	ND		ug/kg	33.7	5.12	1	A
Aroclor 1232	ND		ug/kg	33.7	3.31	1	A
Aroclor 1242	ND		ug/kg	33.7	4.12	1	A
Aroclor 1248	ND		ug/kg	33.7	3.78	1	A
Aroclor 1254	ND		ug/kg	33.7	2.75	1	A
Aroclor 1260	4.45	J	ug/kg	33.7	3.51	1	A
Aroclor 1262	ND		ug/kg	33.7	2.77	1	A
Aroclor 1268	ND		ug/kg	33.7	2.38	1	A
PCBs, Total	4.45	J	ug/kg	33.7	2.38	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-24
Client ID: TP-17A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 11:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 21:29
Analyst: HT
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:00
Cleanup Method: EPA 3665A
Cleanup Date: 05/03/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.8	4.17	1	A
Aroclor 1221	ND		ug/kg	36.8	5.60	1	A
Aroclor 1232	ND		ug/kg	36.8	3.62	1	A
Aroclor 1242	ND		ug/kg	36.8	4.50	1	A
Aroclor 1248	ND		ug/kg	36.8	4.13	1	A
Aroclor 1254	16.6	J	ug/kg	36.8	3.00	1	A
Aroclor 1260	10.4	J	ug/kg	36.8	3.84	1	A
Aroclor 1262	ND		ug/kg	36.8	3.02	1	A
Aroclor 1268	ND		ug/kg	36.8	2.60	1	A
PCBs, Total	27.0	J	ug/kg	36.8	2.60	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	99		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-27
Client ID: TP-17B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 11:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 21:42
Analyst: HT
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:00
Cleanup Method: EPA 3665A
Cleanup Date: 05/03/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.4	4.24	1	A
Aroclor 1221	ND		ug/kg	37.4	5.69	1	A
Aroclor 1232	ND		ug/kg	37.4	3.68	1	A
Aroclor 1242	ND		ug/kg	37.4	4.58	1	A
Aroclor 1248	ND		ug/kg	37.4	4.20	1	A
Aroclor 1254	8.22	J	ug/kg	37.4	3.05	1	A
Aroclor 1260	6.31	J	ug/kg	37.4	3.90	1	A
Aroclor 1262	ND		ug/kg	37.4	3.07	1	A
Aroclor 1268	ND		ug/kg	37.4	2.65	1	A
PCBs, Total	14.5	J	ug/kg	37.4	2.65	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-30
Client ID: TP-18A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 12:45
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 21:55
Analyst: HT
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:00
Cleanup Method: EPA 3665A
Cleanup Date: 05/03/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.5	4.14	1	A
Aroclor 1221	ND		ug/kg	36.5	5.56	1	A
Aroclor 1232	ND		ug/kg	36.5	3.59	1	A
Aroclor 1242	ND		ug/kg	36.5	4.47	1	A
Aroclor 1248	ND		ug/kg	36.5	4.10	1	A
Aroclor 1254	ND		ug/kg	36.5	2.98	1	A
Aroclor 1260	ND		ug/kg	36.5	3.81	1	A
Aroclor 1262	ND		ug/kg	36.5	3.00	1	A
Aroclor 1268	ND		ug/kg	36.5	2.58	1	A
PCBs, Total	ND		ug/kg	36.5	2.58	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	101		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-33
Client ID: TP-18B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 12:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 22:07
Analyst: HT
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:00
Cleanup Method: EPA 3665A
Cleanup Date: 05/03/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.1	4.21	1	A
Aroclor 1221	ND		ug/kg	37.1	5.65	1	A
Aroclor 1232	ND		ug/kg	37.1	3.65	1	A
Aroclor 1242	ND		ug/kg	37.1	4.54	1	A
Aroclor 1248	ND		ug/kg	37.1	4.17	1	A
Aroclor 1254	15.4	J	ug/kg	37.1	3.03	1	A
Aroclor 1260	12.0	J	ug/kg	37.1	3.88	1	B
Aroclor 1262	ND		ug/kg	37.1	3.05	1	A
Aroclor 1268	ND		ug/kg	37.1	2.63	1	A
PCBs, Total	27.4	J	ug/kg	37.1	2.63	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		30-150	B
Decachlorobiphenyl	70		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-36
Client ID: TP-19A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 13:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 22:20
Analyst: HT
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:00
Cleanup Method: EPA 3665A
Cleanup Date: 05/03/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.6	3.93	1	A
Aroclor 1221	ND		ug/kg	34.6	5.27	1	A
Aroclor 1232	ND		ug/kg	34.6	3.41	1	A
Aroclor 1242	ND		ug/kg	34.6	4.24	1	A
Aroclor 1248	ND		ug/kg	34.6	3.89	1	A
Aroclor 1254	5.64	J	ug/kg	34.6	2.83	1	A
Aroclor 1260	ND		ug/kg	34.6	3.62	1	A
Aroclor 1262	ND		ug/kg	34.6	2.85	1	A
Aroclor 1268	ND		ug/kg	34.6	2.45	1	A
PCBs, Total	5.64	J	ug/kg	34.6	2.45	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	102		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-39
Client ID: TP-19B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 14:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 22:32
Analyst: HT
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:00
Cleanup Method: EPA 3665A
Cleanup Date: 05/03/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.4	4.24	1	A
Aroclor 1221	ND		ug/kg	37.4	5.70	1	A
Aroclor 1232	ND		ug/kg	37.4	3.68	1	A
Aroclor 1242	ND		ug/kg	37.4	4.58	1	A
Aroclor 1248	ND		ug/kg	37.4	4.20	1	A
Aroclor 1254	22.5	J	ug/kg	37.4	3.05	1	A
Aroclor 1260	25.5	J	ug/kg	37.4	3.91	1	B
Aroclor 1262	ND		ug/kg	37.4	3.08	1	A
Aroclor 1268	ND		ug/kg	37.4	2.65	1	A
PCBs, Total	48.0	J	ug/kg	37.4	2.65	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	107		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-42
Client ID: TP-21_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 14:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 22:44
Analyst: HT
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:32
Cleanup Method: EPA 3665A
Cleanup Date: 05/03/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	4.11	1	A
Aroclor 1221	ND		ug/kg	36.2	5.51	1	A
Aroclor 1232	ND		ug/kg	36.2	3.56	1	A
Aroclor 1242	ND		ug/kg	36.2	4.43	1	A
Aroclor 1248	ND		ug/kg	36.2	4.06	1	A
Aroclor 1254	ND		ug/kg	36.2	2.96	1	A
Aroclor 1260	ND		ug/kg	36.2	3.78	1	A
Aroclor 1262	ND		ug/kg	36.2	2.98	1	A
Aroclor 1268	ND		ug/kg	36.2	2.56	1	A
PCBs, Total	ND		ug/kg	36.2	2.56	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	101		30-150	B
Decachlorobiphenyl	77		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-44
Client ID: TPX-_050218-C
Sample Location: YONKERS, NY

Date Collected: 05/02/18 00:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/04/18 22:57
Analyst: HT
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:32
Cleanup Method: EPA 3665A
Cleanup Date: 05/03/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.9	4.18	1	A
Aroclor 1221	ND		ug/kg	36.9	5.61	1	A
Aroclor 1232	ND		ug/kg	36.9	3.63	1	A
Aroclor 1242	ND		ug/kg	36.9	4.51	1	A
Aroclor 1248	ND		ug/kg	36.9	4.14	1	A
Aroclor 1254	11.6	J	ug/kg	36.9	3.01	1	A
Aroclor 1260	6.64	J	ug/kg	36.9	3.85	1	A
Aroclor 1262	ND		ug/kg	36.9	3.03	1	A
Aroclor 1268	ND		ug/kg	36.9	2.61	1	A
PCBs, Total	18.2	J	ug/kg	36.9	2.61	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	95		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-45
Client ID: FB01
Sample Location: YONKERS, NY

Date Collected: 05/02/18 15:15
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 05/04/18 22:58
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 05/04/18 00:59
Cleanup Method: EPA 3665A
Cleanup Date: 05/04/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	95		30-150	B
Decachlorobiphenyl	88		30-150	B

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/04/18 00:00
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:00
Cleanup Method: EPA 3665A
Cleanup Date: 05/03/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03,06,09,15,18,21,24,27,30,33,36,39,42,44 Batch: WG1112076-1						
Aroclor 1016	ND		ug/kg	31.3	3.55	A
Aroclor 1221	ND		ug/kg	31.3	4.76	A
Aroclor 1232	ND		ug/kg	31.3	3.08	A
Aroclor 1242	ND		ug/kg	31.3	3.83	A
Aroclor 1248	ND		ug/kg	31.3	3.51	A
Aroclor 1254	ND		ug/kg	31.3	2.55	A
Aroclor 1260	ND		ug/kg	31.3	3.27	A
Aroclor 1262	ND		ug/kg	31.3	2.57	A
Aroclor 1268	ND		ug/kg	31.3	2.22	A
PCBs, Total	ND		ug/kg	31.3	2.22	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	78		30-150	B

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/04/18 09:29
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 05/03/18 17:52
Cleanup Method: EPA 3665A
Cleanup Date: 05/04/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 45 Batch: WG1112395-1						
Aroclor 1016	ND		ug/l	0.083	0.020	A
Aroclor 1221	ND		ug/l	0.083	0.032	A
Aroclor 1232	ND		ug/l	0.083	0.027	A
Aroclor 1242	ND		ug/l	0.083	0.030	A
Aroclor 1248	ND		ug/l	0.083	0.023	A
Aroclor 1254	ND		ug/l	0.083	0.035	A
Aroclor 1260	ND		ug/l	0.083	0.020	A
Aroclor 1262	ND		ug/l	0.083	0.017	A
Aroclor 1268	ND		ug/l	0.083	0.027	A
PCBs, Total	ND		ug/l	0.083	0.017	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	103		30-150	B
Decachlorobiphenyl	82		30-150	B

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/06/18 02:31
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 05/05/18 00:21
Cleanup Method: EPA 3665A
Cleanup Date: 05/05/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 12 Batch: WG1112850-1						
Aroclor 1016	ND		ug/kg	32.0	3.63	A
Aroclor 1221	ND		ug/kg	32.0	4.88	A
Aroclor 1232	ND		ug/kg	32.0	3.15	A
Aroclor 1242	ND		ug/kg	32.0	3.92	A
Aroclor 1248	ND		ug/kg	32.0	3.59	A
Aroclor 1254	ND		ug/kg	32.0	2.61	A
Aroclor 1260	ND		ug/kg	32.0	3.34	A
Aroclor 1262	ND		ug/kg	32.0	2.63	A
Aroclor 1268	ND		ug/kg	32.0	2.27	A
PCBs, Total	ND		ug/kg	32.0	2.27	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	88		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03,06,09,15,18,21,24,27,30,33,36,39,42,44 Batch: WG1112076-2 WG1112076-3									
Aroclor 1016	85		87		40-140	2		50	A
Aroclor 1260	85		86		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		94		30-150	A
Decachlorobiphenyl	75		77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	91		87		30-150	B
Decachlorobiphenyl	83		85		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 45 Batch: WG1112395-2 WG1112395-3									
Aroclor 1016	85		82		40-140	3		50	A
Aroclor 1260	75		77		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		77		30-150	A
Decachlorobiphenyl	62		69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		82		30-150	B
Decachlorobiphenyl	67		73		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 12 Batch: WG1112850-2 WG1112850-3									
Aroclor 1016	88		92		40-140	4		50	A
Aroclor 1260	83		87		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		95		30-150	A
Decachlorobiphenyl	87		91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		93		30-150	B
Decachlorobiphenyl	97		101		30-150	B

PESTICIDES

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-03
Client ID: TP-11A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 07:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/18 01:53
Analyst: KEG
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:35
Cleanup Method: EPA 3620B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.69	0.330	1	A
Lindane	ND		ug/kg	0.703	0.314	1	A
Alpha-BHC	ND		ug/kg	0.703	0.200	1	A
Beta-BHC	ND		ug/kg	1.69	0.640	1	A
Heptachlor	ND		ug/kg	0.844	0.378	1	A
Aldrin	ND		ug/kg	1.69	0.594	1	A
Heptachlor epoxide	ND		ug/kg	3.16	0.949	1	A
Endrin	ND		ug/kg	0.703	0.288	1	A
Endrin aldehyde	ND		ug/kg	2.11	0.738	1	A
Endrin ketone	ND		ug/kg	1.69	0.434	1	A
Dieldrin	ND		ug/kg	1.05	0.527	1	A
4,4'-DDE	1.47	J	ug/kg	1.69	0.390	1	B
4,4'-DDD	0.698	J	ug/kg	1.69	0.602	1	A
4,4'-DDT	16.6		ug/kg	3.16	1.36	1	B
Endosulfan I	ND		ug/kg	1.69	0.399	1	A
Endosulfan II	ND		ug/kg	1.69	0.564	1	A
Endosulfan sulfate	ND		ug/kg	0.703	0.335	1	A
Methoxychlor	ND		ug/kg	3.16	0.984	1	A
Toxaphene	ND		ug/kg	31.6	8.86	1	A
cis-Chlordane	ND		ug/kg	2.11	0.588	1	A
trans-Chlordane	ND		ug/kg	2.11	0.557	1	A
Chlordane	ND		ug/kg	13.7	5.59	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-03
Client ID: TP-11A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 07:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	120		30-150	B
Decachlorobiphenyl	116		30-150	B
2,4,5,6-Tetrachloro-m-xylene	130		30-150	A
Decachlorobiphenyl	95		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-03
Client ID: TP-11A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 07:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/07/18 14:30
Analyst: SL
Percent Solids: 90%
Methylation Date: 05/04/18 23:33

Extraction Method: EPA 8151A
Extraction Date: 05/04/18 01:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	183	11.5	1	A
2,4,5-T	ND		ug/kg	183	5.66	1	A
2,4,5-TP (Silvex)	ND		ug/kg	183	4.86	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	125		30-150	A
DCAA	136		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-06
Client ID: TP-11B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 08:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/18 02:05
Analyst: KEG
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:35
Cleanup Method: EPA 3620B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.73	0.339	1	A
Lindane	ND		ug/kg	0.722	0.323	1	A
Alpha-BHC	ND		ug/kg	0.722	0.205	1	A
Beta-BHC	ND		ug/kg	1.73	0.657	1	A
Heptachlor	ND		ug/kg	0.866	0.388	1	A
Aldrin	ND		ug/kg	1.73	0.610	1	A
Heptachlor epoxide	ND		ug/kg	3.25	0.975	1	A
Endrin	ND		ug/kg	0.722	0.296	1	A
Endrin aldehyde	ND		ug/kg	2.17	0.758	1	A
Endrin ketone	ND		ug/kg	1.73	0.446	1	A
Dieldrin	ND		ug/kg	1.08	0.542	1	A
4,4'-DDE	ND		ug/kg	1.73	0.401	1	A
4,4'-DDD	ND		ug/kg	1.73	0.618	1	A
4,4'-DDT	2.72	J	ug/kg	3.25	1.39	1	A
Endosulfan I	ND		ug/kg	1.73	0.409	1	A
Endosulfan II	ND		ug/kg	1.73	0.579	1	A
Endosulfan sulfate	ND		ug/kg	0.722	0.344	1	A
Methoxychlor	ND		ug/kg	3.25	1.01	1	A
Toxaphene	ND		ug/kg	32.5	9.10	1	A
cis-Chlordane	ND		ug/kg	2.17	0.604	1	A
trans-Chlordane	ND		ug/kg	2.17	0.572	1	A
Chlordane	ND		ug/kg	14.1	5.74	1	A

Project Name: FORMER BICC
Lab Number: L1815750
Project Number: 056970006
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-06
Client ID: TP-11B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 08:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	106		30-150	B
Decachlorobiphenyl	115		30-150	B
2,4,5,6-Tetrachloro-m-xylene	105		30-150	A
Decachlorobiphenyl	94		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-06
Client ID: TP-11B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 08:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/07/18 14:49
Analyst: SL
Percent Solids: 90%
Methylation Date: 05/04/18 23:33

Extraction Method: EPA 8151A
Extraction Date: 05/04/18 01:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	179	11.2	1	A
2,4,5-T	ND		ug/kg	179	5.54	1	A
2,4,5-TP (Silvex)	ND		ug/kg	179	4.75	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	**155**	Q	30-150	A
DCAA	**151**	Q	30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-09
Client ID: TP-13A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 08:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/18 02:18
Analyst: KEG
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:35
Cleanup Method: EPA 3620B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.82	0.357	1	A
Lindane	ND		ug/kg	0.760	0.340	1	A
Alpha-BHC	ND		ug/kg	0.760	0.216	1	A
Beta-BHC	ND		ug/kg	1.82	0.691	1	A
Heptachlor	ND		ug/kg	0.912	0.409	1	A
Aldrin	ND		ug/kg	1.82	0.642	1	A
Heptachlor epoxide	ND		ug/kg	3.42	1.02	1	A
Endrin	ND		ug/kg	0.760	0.312	1	A
Endrin aldehyde	ND		ug/kg	2.28	0.798	1	A
Endrin ketone	ND		ug/kg	1.82	0.470	1	A
Dieldrin	ND		ug/kg	1.14	0.570	1	A
4,4'-DDE	0.989	J	ug/kg	1.82	0.422	1	B
4,4'-DDD	ND		ug/kg	1.82	0.650	1	A
4,4'-DDT	3.20	J	ug/kg	3.42	1.47	1	A
Endosulfan I	ND		ug/kg	1.82	0.431	1	A
Endosulfan II	ND		ug/kg	1.82	0.609	1	A
Endosulfan sulfate	ND		ug/kg	0.760	0.362	1	A
Methoxychlor	ND		ug/kg	3.42	1.06	1	A
Toxaphene	ND		ug/kg	34.2	9.57	1	A
cis-Chlordane	ND		ug/kg	2.28	0.635	1	A
trans-Chlordane	ND		ug/kg	2.28	0.602	1	A
Chlordane	ND		ug/kg	14.8	6.04	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-09
Client ID: TP-13A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 08:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	111		30-150	B
Decachlorobiphenyl	121		30-150	B
2,4,5,6-Tetrachloro-m-xylene	111		30-150	A
Decachlorobiphenyl	92		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-09
Client ID: TP-13A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 08:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/07/18 15:08
Analyst: SL
Percent Solids: 85%
Methylation Date: 05/04/18 23:33

Extraction Method: EPA 8151A
Extraction Date: 05/04/18 01:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	190	12.0	1	A
2,4,5-T	ND		ug/kg	190	5.89	1	A
2,4,5-TP (Silvex)	ND		ug/kg	190	5.05	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	133		30-150	A
DCAA	129		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-12
Client ID: TP-13B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 09:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/06/18 23:15
Analyst: JW
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/05/18 07:54
Cleanup Method: EPA 3620B
Cleanup Date: 05/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.74	0.340	1	A
Lindane	ND		ug/kg	0.724	0.324	1	A
Alpha-BHC	ND		ug/kg	0.724	0.206	1	A
Beta-BHC	ND		ug/kg	1.74	0.659	1	A
Heptachlor	ND		ug/kg	0.869	0.390	1	A
Aldrin	ND		ug/kg	1.74	0.612	1	A
Heptachlor epoxide	ND		ug/kg	3.26	0.978	1	A
Endrin	ND		ug/kg	0.724	0.297	1	A
Endrin aldehyde	ND		ug/kg	2.17	0.761	1	A
Endrin ketone	ND		ug/kg	1.74	0.448	1	A
Dieldrin	ND		ug/kg	1.09	0.543	1	A
4,4'-DDE	0.574	J	ug/kg	1.74	0.402	1	A
4,4'-DDD	ND		ug/kg	1.74	0.620	1	A
4,4'-DDT	1.58	J	ug/kg	3.26	1.40	1	A
Endosulfan I	ND		ug/kg	1.74	0.411	1	A
Endosulfan II	ND		ug/kg	1.74	0.581	1	A
Endosulfan sulfate	ND		ug/kg	0.724	0.345	1	A
Methoxychlor	ND		ug/kg	3.26	1.01	1	A
Toxaphene	ND		ug/kg	32.6	9.13	1	A
cis-Chlordane	ND		ug/kg	2.17	0.606	1	A
trans-Chlordane	ND		ug/kg	2.17	0.574	1	A
Chlordane	ND		ug/kg	14.1	5.76	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-12
Client ID: TP-13B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 09:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	100		30-150	B
Decachlorobiphenyl	110		30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	97		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-12
Client ID: TP-13B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 09:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/07/18 15:27
Analyst: SL
Percent Solids: 89%
Methylation Date: 05/04/18 23:33

Extraction Method: EPA 8151A
Extraction Date: 05/04/18 01:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	183	11.5	1	A
2,4,5-T	ND		ug/kg	183	5.66	1	A
2,4,5-TP (Silvex)	ND		ug/kg	183	4.86	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	121		30-150	A
DCAA	126		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-15
Client ID: TP-15A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 09:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/18 02:31
Analyst: KEG
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:35
Cleanup Method: EPA 3620B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.75	0.343	1	A
Lindane	ND		ug/kg	0.730	0.326	1	A
Alpha-BHC	ND		ug/kg	0.730	0.207	1	A
Beta-BHC	ND		ug/kg	1.75	0.664	1	A
Heptachlor	ND		ug/kg	0.876	0.392	1	A
Aldrin	ND		ug/kg	1.75	0.616	1	A
Heptachlor epoxide	ND		ug/kg	3.28	0.985	1	A
Endrin	ND		ug/kg	0.730	0.299	1	A
Endrin aldehyde	ND		ug/kg	2.19	0.766	1	A
Endrin ketone	ND		ug/kg	1.75	0.451	1	A
Dieldrin	0.660	J	ug/kg	1.09	0.547	1	A
4,4'-DDE	1.01	J	ug/kg	1.75	0.405	1	B
4,4'-DDD	ND		ug/kg	1.75	0.624	1	A
4,4'-DDT	2.96	J	ug/kg	3.28	1.41	1	A
Endosulfan I	ND		ug/kg	1.75	0.414	1	A
Endosulfan II	ND		ug/kg	1.75	0.585	1	A
Endosulfan sulfate	ND		ug/kg	0.730	0.347	1	A
Methoxychlor	ND		ug/kg	3.28	1.02	1	A
Toxaphene	ND		ug/kg	32.8	9.19	1	A
cis-Chlordane	ND		ug/kg	2.19	0.610	1	A
trans-Chlordane	ND		ug/kg	2.19	0.578	1	A
Chlordane	ND		ug/kg	14.2	5.80	1	A

Project Name: FORMER BICC
Lab Number: L1815750
Project Number: 056970006
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-15
Client ID: TP-15A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 09:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	116		30-150	B
Decachlorobiphenyl	125		30-150	B
2,4,5,6-Tetrachloro-m-xylene	114		30-150	A
Decachlorobiphenyl	96		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-15
Client ID: TP-15A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 09:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/07/18 15:45
Analyst: SL
Percent Solids: 90%
Methylation Date: 05/04/18 23:33

Extraction Method: EPA 8151A
Extraction Date: 05/04/18 01:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	183	11.5	1	A
2,4,5-T	ND		ug/kg	183	5.67	1	A
2,4,5-TP (Silvex)	ND		ug/kg	183	4.87	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	114		30-150	A
DCAA	117		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-18
Client ID: TP-15B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 09:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/18 02:43
Analyst: KEG
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:35
Cleanup Method: EPA 3620B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.75	0.342	1	A
Lindane	ND		ug/kg	0.729	0.326	1	A
Alpha-BHC	ND		ug/kg	0.729	0.207	1	A
Beta-BHC	ND		ug/kg	1.75	0.663	1	A
Heptachlor	ND		ug/kg	0.874	0.392	1	A
Aldrin	ND		ug/kg	1.75	0.616	1	A
Heptachlor epoxide	ND		ug/kg	3.28	0.984	1	A
Endrin	ND		ug/kg	0.729	0.299	1	A
Endrin aldehyde	ND		ug/kg	2.19	0.765	1	A
Endrin ketone	ND		ug/kg	1.75	0.450	1	A
Dieldrin	ND		ug/kg	1.09	0.546	1	A
4,4'-DDE	0.947	J	ug/kg	1.75	0.404	1	B
4,4'-DDD	ND		ug/kg	1.75	0.624	1	A
4,4'-DDT	4.16		ug/kg	3.28	1.41	1	A
Endosulfan I	ND		ug/kg	1.75	0.413	1	A
Endosulfan II	ND		ug/kg	1.75	0.584	1	A
Endosulfan sulfate	ND		ug/kg	0.729	0.347	1	A
Methoxychlor	ND		ug/kg	3.28	1.02	1	A
Toxaphene	ND		ug/kg	32.8	9.18	1	A
cis-Chlordane	ND		ug/kg	2.19	0.609	1	A
trans-Chlordane	ND		ug/kg	2.19	0.577	1	A
Chlordane	ND		ug/kg	14.2	5.79	1	A

Project Name: FORMER BICC
Lab Number: L1815750
Project Number: 056970006
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-18
Client ID: TP-15B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 09:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	111		30-150	B
Decachlorobiphenyl	117		30-150	B
2,4,5,6-Tetrachloro-m-xylene	109		30-150	A
Decachlorobiphenyl	89		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-18
Client ID: TP-15B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 09:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/07/18 16:04
Analyst: SL
Percent Solids: 91%
Methylation Date: 05/04/18 23:33

Extraction Method: EPA 8151A
Extraction Date: 05/04/18 01:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	180	11.3	1	A
2,4,5-T	ND		ug/kg	180	5.57	1	A
2,4,5-TP (Silvex)	ND		ug/kg	180	4.78	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	128		30-150	A
DCAA	131		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-21
Client ID: TP-16_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 10:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/18 02:56
Analyst: KEG
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:35
Cleanup Method: EPA 3620B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.61	0.316	1	A
Lindane	ND		ug/kg	0.672	0.300	1	A
Alpha-BHC	ND		ug/kg	0.672	0.191	1	A
Beta-BHC	ND		ug/kg	1.61	0.612	1	A
Heptachlor	ND		ug/kg	0.806	0.362	1	A
Aldrin	ND		ug/kg	1.61	0.568	1	A
Heptachlor epoxide	ND		ug/kg	3.02	0.907	1	A
Endrin	ND		ug/kg	0.672	0.276	1	A
Endrin aldehyde	ND		ug/kg	2.02	0.706	1	A
Endrin ketone	ND		ug/kg	1.61	0.415	1	A
Dieldrin	ND		ug/kg	1.01	0.504	1	A
4,4'-DDE	ND		ug/kg	1.61	0.373	1	A
4,4'-DDD	ND		ug/kg	1.61	0.575	1	A
4,4'-DDT	1.44	JPI	ug/kg	3.02	1.30	1	B
Endosulfan I	ND		ug/kg	1.61	0.381	1	A
Endosulfan II	ND		ug/kg	1.61	0.539	1	A
Endosulfan sulfate	ND		ug/kg	0.672	0.320	1	A
Methoxychlor	ND		ug/kg	3.02	0.941	1	A
Toxaphene	ND		ug/kg	30.2	8.47	1	A
cis-Chlordane	ND		ug/kg	2.02	0.562	1	A
trans-Chlordane	ND		ug/kg	2.02	0.532	1	A
Chlordane	ND		ug/kg	13.1	5.34	1	A

Project Name: FORMER BICC
Lab Number: L1815750
Project Number: 056970006
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-21
Client ID: TP-16_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 10:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		30-150	B
Decachlorobiphenyl	98		30-150	B
2,4,5,6-Tetrachloro-m-xylene	97		30-150	A
Decachlorobiphenyl	88		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-21
Client ID: TP-16_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 10:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/07/18 16:23
Analyst: SL
Percent Solids: 93%
Methylation Date: 05/06/18 07:53

Extraction Method: EPA 8151A
Extraction Date: 05/04/18 01:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	176	11.1	1	A
2,4,5-T	ND		ug/kg	176	5.46	1	A
2,4,5-TP (Silvex)	ND		ug/kg	176	4.69	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	118		30-150	A
DCAA	135		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-24
Client ID: TP-17A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 11:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/18 03:09
Analyst: KEG
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:35
Cleanup Method: EPA 3620B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.84	0.360	1	A
Lindane	ND		ug/kg	0.767	0.343	1	A
Alpha-BHC	ND		ug/kg	0.767	0.218	1	A
Beta-BHC	ND		ug/kg	1.84	0.698	1	A
Heptachlor	ND		ug/kg	0.920	0.413	1	A
Aldrin	ND		ug/kg	1.84	0.648	1	A
Heptachlor epoxide	1.08	J	ug/kg	3.45	1.04	1	A
Endrin	ND		ug/kg	0.767	0.314	1	A
Endrin aldehyde	ND		ug/kg	2.30	0.805	1	A
Endrin ketone	ND		ug/kg	1.84	0.474	1	A
Dieldrin	ND		ug/kg	1.15	0.575	1	A
4,4'-DDE	2.33		ug/kg	1.84	0.426	1	A
4,4'-DDD	1.11	J	ug/kg	1.84	0.656	1	A
4,4'-DDT	ND		ug/kg	3.45	1.48	1	A
Endosulfan I	ND		ug/kg	1.84	0.435	1	A
Endosulfan II	ND	PI	ug/kg	1.84	0.615	1	A
Endosulfan sulfate	ND		ug/kg	0.767	0.365	1	A
Methoxychlor	ND		ug/kg	3.45	1.07	1	A
Toxaphene	ND		ug/kg	34.5	9.66	1	A
cis-Chlordane	1.82	J	ug/kg	2.30	0.641	1	A
trans-Chlordane	ND		ug/kg	2.30	0.607	1	A
Chlordane	ND		ug/kg	15.0	6.10	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-24
Client ID: TP-17A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 11:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	107		30-150	B
Decachlorobiphenyl	111		30-150	B
2,4,5,6-Tetrachloro-m-xylene	115		30-150	A
Decachlorobiphenyl	88		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-24
Client ID: TP-17A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 11:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/07/18 16:42
Analyst: SL
Percent Solids: 86%
Methylation Date: 05/06/18 07:53

Extraction Method: EPA 8151A
Extraction Date: 05/04/18 01:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	191	12.1	1	A
2,4,5-T	ND		ug/kg	191	5.93	1	A
2,4,5-TP (Silvex)	ND		ug/kg	191	5.09	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	100		30-150	A
DCAA	115		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-27
Client ID: TP-17B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 11:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/18 03:21
Analyst: KEG
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:35
Cleanup Method: EPA 3620B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.78	0.348	1	A
Lindane	ND		ug/kg	0.740	0.331	1	A
Alpha-BHC	ND		ug/kg	0.740	0.210	1	A
Beta-BHC	ND		ug/kg	1.78	0.674	1	A
Heptachlor	ND		ug/kg	0.888	0.398	1	A
Aldrin	ND		ug/kg	1.78	0.626	1	A
Heptachlor epoxide	ND		ug/kg	3.33	0.999	1	A
Endrin	ND		ug/kg	0.740	0.304	1	A
Endrin aldehyde	ND		ug/kg	2.22	0.777	1	A
Endrin ketone	ND		ug/kg	1.78	0.458	1	A
Dieldrin	ND		ug/kg	1.11	0.555	1	A
4,4'-DDE	ND		ug/kg	1.78	0.411	1	A
4,4'-DDD	ND		ug/kg	1.78	0.634	1	A
4,4'-DDT	ND	PI	ug/kg	3.33	1.43	1	B
Endosulfan I	ND		ug/kg	1.78	0.420	1	A
Endosulfan II	1.71	JPI	ug/kg	1.78	0.594	1	A
Endosulfan sulfate	ND		ug/kg	0.740	0.352	1	A
Methoxychlor	ND		ug/kg	3.33	1.04	1	A
Toxaphene	ND		ug/kg	33.3	9.33	1	A
cis-Chlordane	ND		ug/kg	2.22	0.619	1	A
trans-Chlordane	ND		ug/kg	2.22	0.586	1	A
Chlordane	ND		ug/kg	14.4	5.88	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-27
Client ID: TP-17B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 11:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	107		30-150	B
Decachlorobiphenyl	109		30-150	B
2,4,5,6-Tetrachloro-m-xylene	117		30-150	A
Decachlorobiphenyl	85		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-27
Client ID: TP-17B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 11:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/07/18 17:01
Analyst: SL
Percent Solids: 88%
Methylation Date: 05/06/18 07:53

Extraction Method: EPA 8151A
Extraction Date: 05/04/18 01:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	186	11.7	1	A
2,4,5-T	ND		ug/kg	186	5.78	1	A
2,4,5-TP (Silvex)	ND		ug/kg	186	4.96	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	109		30-150	A
DCAA	117		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-30
Client ID: TP-18A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 12:45
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/18 03:34
Analyst: KEG
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:35
Cleanup Method: EPA 3620B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.77	0.346	1	A
Lindane	ND		ug/kg	0.737	0.330	1	A
Alpha-BHC	ND		ug/kg	0.737	0.209	1	A
Beta-BHC	ND		ug/kg	1.77	0.671	1	A
Heptachlor	ND		ug/kg	0.885	0.397	1	A
Aldrin	ND		ug/kg	1.77	0.623	1	A
Heptachlor epoxide	ND		ug/kg	3.32	0.995	1	A
Endrin	ND		ug/kg	0.737	0.302	1	A
Endrin aldehyde	ND		ug/kg	2.21	0.774	1	A
Endrin ketone	ND		ug/kg	1.77	0.456	1	A
Dieldrin	ND		ug/kg	1.10	0.553	1	A
4,4'-DDE	0.770	J	ug/kg	1.77	0.409	1	B
4,4'-DDD	ND		ug/kg	1.77	0.631	1	A
4,4'-DDT	1.73	J	ug/kg	3.32	1.42	1	A
Endosulfan I	ND		ug/kg	1.77	0.418	1	A
Endosulfan II	ND		ug/kg	1.77	0.591	1	A
Endosulfan sulfate	ND		ug/kg	0.737	0.351	1	A
Methoxychlor	ND		ug/kg	3.32	1.03	1	A
Toxaphene	ND		ug/kg	33.2	9.29	1	A
cis-Chlordane	ND		ug/kg	2.21	0.616	1	A
trans-Chlordane	ND		ug/kg	2.21	0.584	1	A
Chlordane	ND		ug/kg	14.4	5.86	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-30
Client ID: TP-18A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 12:45
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	119		30-150	B
Decachlorobiphenyl	115		30-150	B
2,4,5,6-Tetrachloro-m-xylene	126		30-150	A
Decachlorobiphenyl	91		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-30
Client ID: TP-18A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 12:45
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/07/18 17:38
Analyst: SL
Percent Solids: 90%
Methylation Date: 05/06/18 07:53

Extraction Method: EPA 8151A
Extraction Date: 05/04/18 01:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	186	11.7	1	A
2,4,5-T	ND		ug/kg	186	5.76	1	A
2,4,5-TP (Silvex)	ND		ug/kg	186	4.94	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	100		30-150	A
DCAA	110		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-33
Client ID: TP-18B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 12:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/07/18 17:42
Analyst: KEG
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:35
Cleanup Method: EPA 3620B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.69	0.331	1	A
Lindane	ND		ug/kg	0.704	0.315	1	A
Alpha-BHC	ND		ug/kg	0.704	0.200	1	A
Beta-BHC	ND		ug/kg	1.69	0.641	1	A
Heptachlor	ND		ug/kg	0.845	0.379	1	A
Aldrin	ND		ug/kg	1.69	0.595	1	A
Heptachlor epoxide	ND		ug/kg	3.17	0.951	1	A
Endrin	ND		ug/kg	0.704	0.289	1	A
Endrin aldehyde	ND		ug/kg	2.11	0.740	1	A
Endrin ketone	ND		ug/kg	1.69	0.435	1	A
Dieldrin	ND		ug/kg	1.06	0.528	1	A
4,4'-DDE	1.49	J	ug/kg	1.69	0.391	1	A
4,4'-DDD	ND		ug/kg	1.69	0.603	1	A
4,4'-DDT	3.00	JPI	ug/kg	3.17	1.36	1	B
Endosulfan I	ND		ug/kg	1.69	0.399	1	A
Endosulfan II	ND		ug/kg	1.69	0.565	1	A
Endosulfan sulfate	ND		ug/kg	0.704	0.335	1	A
Methoxychlor	ND		ug/kg	3.17	0.986	1	A
Toxaphene	ND		ug/kg	31.7	8.88	1	A
cis-Chlordane	ND		ug/kg	2.11	0.589	1	A
trans-Chlordane	ND		ug/kg	2.11	0.558	1	A
Chlordane	ND		ug/kg	13.7	5.60	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-33
Client ID: TP-18B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 12:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	135		30-150	B
Decachlorobiphenyl	136		30-150	B
2,4,5,6-Tetrachloro-m-xylene	118		30-150	A
Decachlorobiphenyl	117		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-33
Client ID: TP-18B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 12:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/07/18 17:57
Analyst: SL
Percent Solids: 89%
Methylation Date: 05/06/18 07:53

Extraction Method: EPA 8151A
Extraction Date: 05/04/18 01:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	184	11.6	1	A
2,4,5-T	ND		ug/kg	184	5.70	1	A
2,4,5-TP (Silvex)	ND		ug/kg	184	4.89	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	104		30-150	A
DCAA	122		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-36
Client ID: TP-19A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 13:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/07/18 17:30
Analyst: KEG
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:35
Cleanup Method: EPA 3620B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.69	0.332	1	A
Lindane	ND		ug/kg	0.706	0.315	1	A
Alpha-BHC	ND		ug/kg	0.706	0.200	1	A
Beta-BHC	ND		ug/kg	1.69	0.642	1	A
Heptachlor	ND		ug/kg	0.847	0.380	1	A
Aldrin	ND		ug/kg	1.69	0.596	1	A
Heptachlor epoxide	ND		ug/kg	3.17	0.952	1	A
Endrin	ND		ug/kg	0.706	0.289	1	A
Endrin aldehyde	ND		ug/kg	2.12	0.741	1	A
Endrin ketone	ND		ug/kg	1.69	0.436	1	A
Dieldrin	ND		ug/kg	1.06	0.529	1	A
4,4'-DDE	0.544	J	ug/kg	1.69	0.392	1	B
4,4'-DDD	ND		ug/kg	1.69	0.604	1	A
4,4'-DDT	1.81	J	ug/kg	3.17	1.36	1	A
Endosulfan I	ND		ug/kg	1.69	0.400	1	A
Endosulfan II	ND		ug/kg	1.69	0.566	1	A
Endosulfan sulfate	ND		ug/kg	0.706	0.336	1	A
Methoxychlor	ND		ug/kg	3.17	0.988	1	A
Toxaphene	ND		ug/kg	31.7	8.89	1	A
cis-Chlordane	ND		ug/kg	2.12	0.590	1	A
trans-Chlordane	ND		ug/kg	2.12	0.559	1	A
Chlordane	ND		ug/kg	13.8	5.61	1	A

Project Name: FORMER BICC
Lab Number: L1815750
Project Number: 056970006
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-36
Client ID: TP-19A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 13:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		30-150	B
Decachlorobiphenyl	97		30-150	B
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	104		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-36
Client ID: TP-19A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 13:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/07/18 18:16
Analyst: SL
Percent Solids: 91%
Methylation Date: 05/06/18 07:53

Extraction Method: EPA 8151A
Extraction Date: 05/04/18 01:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	180	11.4	1	A
2,4,5-T	ND		ug/kg	180	5.59	1	A
2,4,5-TP (Silvex)	ND		ug/kg	180	4.80	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	113		30-150	A
DCAA	124		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-39
Client ID: TP-19B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 14:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/18 00:41
Analyst: KEG
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:35
Cleanup Method: EPA 3620B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.79	0.351	1	A
Lindane	ND		ug/kg	0.747	0.334	1	A
Alpha-BHC	ND		ug/kg	0.747	0.212	1	A
Beta-BHC	ND		ug/kg	1.79	0.680	1	A
Heptachlor	ND		ug/kg	0.896	0.402	1	A
Aldrin	ND		ug/kg	1.79	0.631	1	A
Heptachlor epoxide	ND		ug/kg	3.36	1.01	1	A
Endrin	ND		ug/kg	0.747	0.306	1	A
Endrin aldehyde	ND		ug/kg	2.24	0.784	1	A
Endrin ketone	ND		ug/kg	1.79	0.461	1	A
Dieldrin	0.855	J	ug/kg	1.12	0.560	1	A
4,4'-DDE	ND		ug/kg	1.79	0.414	1	A
4,4'-DDD	ND		ug/kg	1.79	0.639	1	A
4,4'-DDT	ND		ug/kg	3.36	1.44	1	A
Endosulfan I	ND		ug/kg	1.79	0.423	1	A
Endosulfan II	ND		ug/kg	1.79	0.599	1	A
Endosulfan sulfate	ND		ug/kg	0.747	0.355	1	A
Methoxychlor	ND		ug/kg	3.36	1.04	1	A
Toxaphene	ND		ug/kg	33.6	9.41	1	A
cis-Chlordane	ND		ug/kg	2.24	0.624	1	A
trans-Chlordane	ND		ug/kg	2.24	0.591	1	A
Chlordane	ND		ug/kg	14.6	5.94	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-39
Client ID: TP-19B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 14:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	56		30-150	B
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	79		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-39
Client ID: TP-19B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 14:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/07/18 18:35
Analyst: SL
Percent Solids: 88%
Methylation Date: 05/06/18 07:53

Extraction Method: EPA 8151A
Extraction Date: 05/04/18 05:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	187	11.8	1	A
2,4,5-T	ND		ug/kg	187	5.81	1	A
2,4,5-TP (Silvex)	ND		ug/kg	187	4.99	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	106		30-150	A
DCAA	139		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-42
Client ID: TP-21_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 14:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/05/18 00:54
Analyst: KEG
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 05:22
Cleanup Method: EPA 3620B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.73	0.339	1	A
Lindane	ND		ug/kg	0.722	0.323	1	A
Alpha-BHC	ND		ug/kg	0.722	0.205	1	A
Beta-BHC	ND		ug/kg	1.73	0.657	1	A
Heptachlor	ND		ug/kg	0.867	0.388	1	A
Aldrin	ND		ug/kg	1.73	0.610	1	A
Heptachlor epoxide	ND		ug/kg	3.25	0.975	1	A
Endrin	ND		ug/kg	0.722	0.296	1	A
Endrin aldehyde	ND		ug/kg	2.17	0.758	1	A
Endrin ketone	ND		ug/kg	1.73	0.446	1	A
Dieldrin	0.836	J	ug/kg	1.08	0.542	1	B
4,4'-DDE	ND		ug/kg	1.73	0.401	1	A
4,4'-DDD	ND		ug/kg	1.73	0.618	1	A
4,4'-DDT	ND		ug/kg	3.25	1.39	1	A
Endosulfan I	ND		ug/kg	1.73	0.409	1	A
Endosulfan II	ND		ug/kg	1.73	0.579	1	A
Endosulfan sulfate	ND		ug/kg	0.722	0.344	1	A
Methoxychlor	ND		ug/kg	3.25	1.01	1	A
Toxaphene	ND		ug/kg	32.5	9.10	1	A
cis-Chlordane	1.26	J	ug/kg	2.17	0.604	1	A
trans-Chlordane	ND		ug/kg	2.17	0.572	1	A
Chlordane	ND		ug/kg	14.1	5.74	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-42
Client ID: TP-21_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 14:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	59		30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	70		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-42
Client ID: TP-21_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 14:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/07/18 18:54
Analyst: SL
Percent Solids: 91%
Methylation Date: 05/06/18 07:55

Extraction Method: EPA 8151A
Extraction Date: 05/05/18 00:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	180	11.4	1	A
2,4,5-T	ND		ug/kg	180	5.59	1	A
2,4,5-TP (Silvex)	ND		ug/kg	180	4.80	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	107		30-150	A
DCAA	111		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-44
Client ID: TPX-_050218-C
Sample Location: YONKERS, NY

Date Collected: 05/02/18 00:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/07/18 17:55
Analyst: KEG
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/03/18 05:22
Cleanup Method: EPA 3620B
Cleanup Date: 05/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.74	0.341	1	A
Lindane	ND		ug/kg	0.725	0.324	1	A
Alpha-BHC	ND		ug/kg	0.725	0.206	1	A
Beta-BHC	ND		ug/kg	1.74	0.660	1	A
Heptachlor	ND		ug/kg	0.870	0.390	1	A
Aldrin	ND		ug/kg	1.74	0.613	1	A
Heptachlor epoxide	ND		ug/kg	3.26	0.979	1	A
Endrin	ND		ug/kg	0.725	0.297	1	A
Endrin aldehyde	ND		ug/kg	2.18	0.761	1	A
Endrin ketone	ND		ug/kg	1.74	0.448	1	A
Dieldrin	ND		ug/kg	1.09	0.544	1	A
4,4'-DDE	0.748	J	ug/kg	1.74	0.402	1	A
4,4'-DDD	ND		ug/kg	1.74	0.621	1	A
4,4'-DDT	2.17	J	ug/kg	3.26	1.40	1	B
Endosulfan I	ND		ug/kg	1.74	0.411	1	A
Endosulfan II	ND		ug/kg	1.74	0.582	1	A
Endosulfan sulfate	ND		ug/kg	0.725	0.345	1	A
Methoxychlor	ND		ug/kg	3.26	1.02	1	A
Toxaphene	ND		ug/kg	32.6	9.14	1	A
cis-Chlordane	ND		ug/kg	2.18	0.606	1	A
trans-Chlordane	ND		ug/kg	2.18	0.574	1	A
Chlordane	ND		ug/kg	14.1	5.76	1	A

Project Name: FORMER BICC
Lab Number: L1815750
Project Number: 056970006
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-44
Client ID: TPX-_050218-C
Sample Location: YONKERS, NY
Date Collected: 05/02/18 00:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		30-150	B
Decachlorobiphenyl	93		30-150	B
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	88		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-44
Client ID: TPX-_050218-C
Sample Location: YONKERS, NY

Date Collected: 05/02/18 00:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/07/18 19:12
Analyst: SL
Percent Solids: 90%
Methylation Date: 05/06/18 07:55

Extraction Method: EPA 8151A
Extraction Date: 05/05/18 00:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	182	11.5	1	A
2,4,5-T	ND		ug/kg	182	5.66	1	A
2,4,5-TP (Silvex)	ND		ug/kg	182	4.85	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	96		30-150	A
DCAA	102		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-45
Client ID: FB01
Sample Location: YONKERS, NY

Date Collected: 05/02/18 15:15
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 05/07/18 19:09
Analyst: JW

Extraction Method: EPA 3510C
Extraction Date: 05/06/18 13:41

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-45
Client ID: FB01
Sample Location: YONKERS, NY
Date Collected: 05/02/18 15:15
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	54		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-45
Client ID: FB01
Sample Location: YONKERS, NY

Date Collected: 05/02/18 15:15
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 05/07/18 01:36
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 05/03/18 15:49

Methylation Date: 05/04/18 23:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	111		30-150	A
DCAA	125		30-150	B

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/03/18 16:31
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:35
Cleanup Method: EPA 3620B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03,06,09,15,18,21,24,27,30,33,36,39,42,44 Batch: WG1112085-1						
Delta-BHC	ND		ug/kg	1.55	0.303	A
Lindane	ND		ug/kg	0.646	0.288	A
Alpha-BHC	ND		ug/kg	0.646	0.183	A
Beta-BHC	ND		ug/kg	1.55	0.587	A
Heptachlor	ND		ug/kg	0.775	0.347	A
Aldrin	ND		ug/kg	1.55	0.546	A
Heptachlor epoxide	ND		ug/kg	2.90	0.872	A
Endrin	ND		ug/kg	0.646	0.265	A
Endrin aldehyde	ND		ug/kg	1.94	0.678	A
Endrin ketone	ND		ug/kg	1.55	0.399	A
Dieldrin	ND		ug/kg	0.968	0.484	A
4,4'-DDE	ND		ug/kg	1.55	0.358	A
4,4'-DDD	ND		ug/kg	1.55	0.553	A
4,4'-DDT	ND		ug/kg	2.90	1.24	A
Endosulfan I	ND		ug/kg	1.55	0.366	A
Endosulfan II	ND		ug/kg	1.55	0.518	A
Endosulfan sulfate	ND		ug/kg	0.646	0.307	A
Methoxychlor	ND		ug/kg	2.90	0.904	A
Toxaphene	ND		ug/kg	29.0	8.13	A
cis-Chlordane	ND		ug/kg	1.94	0.540	A
trans-Chlordane	ND		ug/kg	1.94	0.511	A
Chlordane	ND		ug/kg	12.6	5.13	A

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/03/18 16:31
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 05/03/18 04:35
Cleanup Method: EPA 3620B
Cleanup Date: 05/03/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03,06,09,15,18,21,24,27,30,33,36,39,42,44 Batch: WG1112085-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	113		30-150	B
Decachlorobiphenyl	133		30-150	B
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	140		30-150	A

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 05/07/18 00:20
Analyst: KEG

Extraction Method: EPA 8151A
Extraction Date: 05/03/18 15:49

Methylation Date: 05/04/18 23:23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 45 Batch: WG1112353-1						
2,4-D	ND		ug/l	10.0	0.498	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	117		30-150	A
DCAA	117		30-150	B

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 05/07/18 02:51
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 05/04/18 01:20

Methylation Date: 05/04/18 23:28

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 03,06,09,12,15,18,21,24,27,30,33,36,39 Batch: WG1112479-1						
2,4-D	ND		ug/kg	163	10.2	A
2,4,5-T	ND		ug/kg	163	5.04	A
2,4,5-TP (Silvex)	ND		ug/kg	163	4.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	111		30-150	A
DCAA	126		30-150	B

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 05/06/18 20:16
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 05/04/18 07:58

Methylation Date: 05/04/18 23:19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 42,44 Batch: WG1112844-1						
2,4-D	ND		ug/kg	165	10.4	A
2,4,5-T	ND		ug/kg	165	5.10	A
2,4,5-TP (Silvex)	ND		ug/kg	165	4.38	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	98		30-150	A
DCAA	128		30-150	B

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/06/18 20:23
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 05/05/18 00:19
Cleanup Method: EPA 3620B
Cleanup Date: 05/05/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 12 Batch: WG1112849-1						
Delta-BHC	ND		ug/kg	1.52	0.298	A
Lindane	ND		ug/kg	0.634	0.283	A
Alpha-BHC	ND		ug/kg	0.634	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.577	A
Heptachlor	ND		ug/kg	0.760	0.341	A
Aldrin	ND		ug/kg	1.52	0.535	A
Heptachlor epoxide	ND		ug/kg	2.85	0.856	A
Endrin	ND		ug/kg	0.634	0.260	A
Endrin aldehyde	ND		ug/kg	1.90	0.665	A
Endrin ketone	ND		ug/kg	1.52	0.392	A
Dieldrin	ND		ug/kg	0.950	0.475	A
4,4'-DDE	ND		ug/kg	1.52	0.352	A
4,4'-DDD	ND		ug/kg	1.52	0.542	A
4,4'-DDT	ND		ug/kg	2.85	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.359	A
Endosulfan II	ND		ug/kg	1.52	0.508	A
Endosulfan sulfate	ND		ug/kg	0.634	0.302	A
Methoxychlor	ND		ug/kg	2.85	0.887	A
Toxaphene	ND		ug/kg	28.5	7.98	A
cis-Chlordane	ND		ug/kg	1.90	0.530	A
trans-Chlordane	ND		ug/kg	1.90	0.502	A
Chlordane	ND		ug/kg	12.4	5.04	A

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/06/18 20:23
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 05/05/18 00:19
Cleanup Method: EPA 3620B
Cleanup Date: 05/05/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 12 Batch: WG1112849-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	69		30-150	B
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	61		30-150	A

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/07/18 17:41
Analyst: KEG

Extraction Method: EPA 3510C
Extraction Date: 05/06/18 13:41

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 45 Batch: WG1113101-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	0.015	J	ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/07/18 17:41
Analyst: KEG

Extraction Method: EPA 3510C
Extraction Date: 05/06/18 13:41

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 45 Batch: WG1113101-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	46		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03,06,09,15,18,21,24,27,30,33,36,39,42,44 Batch: WG1112085-2 WG1112085-3									
Delta-BHC	111		112		30-150	1		30	A
Lindane	99		98		30-150	1		30	A
Alpha-BHC	103		101		30-150	2		30	A
Beta-BHC	124		117		30-150	6		30	A
Heptachlor	98		95		30-150	3		30	A
Aldrin	100		98		30-150	2		30	A
Heptachlor epoxide	108		105		30-150	3		30	A
Endrin	115		113		30-150	2		30	A
Endrin aldehyde	92		97		30-150	5		30	A
Endrin ketone	105		106		30-150	1		30	A
Dieldrin	109		109		30-150	0		30	A
4,4'-DDE	100		102		30-150	2		30	A
4,4'-DDD	101		102		30-150	1		30	A
4,4'-DDT	106		105		30-150	1		30	A
Endosulfan I	95		96		30-150	1		30	A
Endosulfan II	100		98		30-150	2		30	A
Endosulfan sulfate	94		99		30-150	5		30	A
Methoxychlor	113		115		30-150	2		30	A
cis-Chlordane	91		92		30-150	1		30	A
trans-Chlordane	74		86		30-150	15		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03,06,09,15,18,21,24,27,30,33,36,39,42,44 Batch: WG1112085-2 WG1112085-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		103		30-150	B
Decachlorobiphenyl	113		123		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		85		30-150	A
Decachlorobiphenyl	134		129		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 45 Batch: WG1112353-2 WG1112353-3									
2,4-D	88		86		30-150	2		25	A
2,4,5-T	97		97		30-150	0		25	A
2,4,5-TP (Silvex)	90		89		30-150	1		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	124		119		30-150	A
DCAA	135		135		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 03,06,09,12,15,18,21,24,27,30,33,36,39 Batch: WG1112479-2 WG1112479-3									
2,4-D	34		93		30-150	**93**	Q	30	A
2,4,5-T	37		103		30-150	**94**	Q	30	A
2,4,5-TP (Silvex)	35		94		30-150	**91**	Q	30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	31		114		30-150	A
DCAA	45		132		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 42,44 Batch: WG1112844-2 WG1112844-3									
2,4-D	79		89		30-150	12		30	A
2,4,5-T	84		93		30-150	10		30	A
2,4,5-TP (Silvex)	81		81		30-150	0		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	90		100		30-150	A
DCAA	118		124		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 12 Batch: WG1112849-2 WG1112849-3									
Delta-BHC	95		108		30-150	13		30	A
Lindane	93		104		30-150	11		30	A
Alpha-BHC	91		102		30-150	11		30	A
Beta-BHC	91		115		30-150	23		30	A
Heptachlor	96		107		30-150	11		30	A
Aldrin	92		101		30-150	9		30	A
Heptachlor epoxide	90		100		30-150	11		30	A
Endrin	100		115		30-150	14		30	A
Endrin aldehyde	53		74		30-150	**33**	Q	30	A
Endrin ketone	82		106		30-150	26		30	A
Dieldrin	93		110		30-150	17		30	A
4,4'-DDE	85		94		30-150	10		30	A
4,4'-DDD	90		105		30-150	15		30	A
4,4'-DDT	98		119		30-150	19		30	A
Endosulfan I	84		94		30-150	11		30	A
Endosulfan II	81		95		30-150	16		30	A
Endosulfan sulfate	45		62		30-150	**32**	Q	30	A
Methoxychlor	112		138		30-150	21		30	A
cis-Chlordane	75		84		30-150	11		30	A
trans-Chlordane	70		75		30-150	7		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 12 Batch: WG1112849-2 WG1112849-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		84		30-150	B
Decachlorobiphenyl	76		86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		77		30-150	A
Decachlorobiphenyl	72		78		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 45 Batch: WG1113101-2 WG1113101-3									
Delta-BHC	78		73		30-150	6		20	A
Lindane	76		71		30-150	6		20	A
Alpha-BHC	75		70		30-150	7		20	A
Beta-BHC	72		71		30-150	2		20	A
Heptachlor	70		67		30-150	5		20	A
Aldrin	71		66		30-150	7		20	A
Heptachlor epoxide	72		69		30-150	4		20	A
Endrin	78		78		30-150	1		20	A
Endrin aldehyde	51		48		30-150	7		20	A
Endrin ketone	71		71		30-150	0		20	A
Dieldrin	75		72		30-150	3		20	A
4,4'-DDE	69		64		30-150	6		20	A
4,4'-DDD	70		68		30-150	2		20	A
4,4'-DDT	66		66		30-150	0		20	A
Endosulfan I	73		66		30-150	9		20	A
Endosulfan II	63		63		30-150	0		20	A
Endosulfan sulfate	62		62		30-150	0		20	A
Methoxychlor	85		99		30-150	16		20	A
cis-Chlordane	65		61		30-150	6		20	A
trans-Chlordane	67		63		30-150	6		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 45 Batch: WG1113101-2 WG1113101-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		56		30-150	A
Decachlorobiphenyl	54		56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		52		30-150	B
Decachlorobiphenyl	54		54		30-150	B

METALS

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-03
Client ID: TP-11A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 07:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9560		mg/kg	8.39	2.26	2	05/03/18 20:40	05/04/18 02:22	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.19	0.319	2	05/03/18 20:40	05/04/18 02:22	EPA 3050B	1,6010C	AB
Arsenic, Total	1.34		mg/kg	0.839	0.174	2	05/03/18 20:40	05/04/18 02:22	EPA 3050B	1,6010C	AB
Barium, Total	118		mg/kg	0.836	0.145	2	05/04/18 20:00	05/07/18 15:02	EPA 3050B	1,6010C	LC
Beryllium, Total	0.217	J	mg/kg	0.418	0.028	2	05/04/18 20:00	05/07/18 15:02	EPA 3050B	1,6010C	LC
Cadmium, Total	0.268	J	mg/kg	0.839	0.082	2	05/03/18 20:40	05/04/18 02:22	EPA 3050B	1,6010C	AB
Calcium, Total	5180		mg/kg	8.36	2.92	2	05/04/18 20:00	05/07/18 15:02	EPA 3050B	1,6010C	LC
Chromium, Total	19.9		mg/kg	0.836	0.080	2	05/04/18 20:00	05/07/18 15:02	EPA 3050B	1,6010C	LC
Cobalt, Total	9.72		mg/kg	1.68	0.139	2	05/03/18 20:40	05/04/18 02:22	EPA 3050B	1,6010C	AB
Copper, Total	24.1		mg/kg	0.839	0.216	2	05/03/18 20:40	05/04/18 02:22	EPA 3050B	1,6010C	AB
Iron, Total	18700		mg/kg	4.19	0.758	2	05/03/18 20:40	05/04/18 02:22	EPA 3050B	1,6010C	AB
Lead, Total	65.2		mg/kg	4.19	0.225	2	05/03/18 20:40	05/04/18 02:22	EPA 3050B	1,6010C	AB
Magnesium, Total	5300		mg/kg	8.39	1.29	2	05/03/18 20:40	05/04/18 02:22	EPA 3050B	1,6010C	AB
Manganese, Total	273		mg/kg	0.839	0.133	2	05/03/18 20:40	05/04/18 02:22	EPA 3050B	1,6010C	AB
Mercury, Total	0.200		mg/kg	0.070	0.015	1	05/03/18 07:30	05/03/18 19:40	EPA 7471B	1,7471B	EA
Nickel, Total	16.1		mg/kg	2.10	0.203	2	05/03/18 20:40	05/04/18 02:22	EPA 3050B	1,6010C	AB
Potassium, Total	4870		mg/kg	210	12.1	2	05/03/18 20:40	05/04/18 02:22	EPA 3050B	1,6010C	AB
Selenium, Total	0.319	J	mg/kg	1.68	0.216	2	05/03/18 20:40	05/04/18 02:22	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.839	0.237	2	05/03/18 20:40	05/04/18 02:22	EPA 3050B	1,6010C	AB
Sodium, Total	123	J	mg/kg	168	2.64	2	05/03/18 20:40	05/04/18 02:22	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.68	0.264	2	05/03/18 20:40	05/04/18 02:22	EPA 3050B	1,6010C	AB
Vanadium, Total	27.8		mg/kg	0.839	0.170	2	05/03/18 20:40	05/04/18 02:22	EPA 3050B	1,6010C	AB
Zinc, Total	55.9		mg/kg	4.19	0.246	2	05/03/18 20:40	05/04/18 02:22	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	20		mg/kg	0.89	0.89	1		05/07/18 15:02	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-06
Client ID: TP-11B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 08:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	13200		mg/kg	8.68	2.34	2	05/03/18 20:40	05/04/18 03:12	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.34	0.330	2	05/03/18 20:40	05/04/18 03:12	EPA 3050B	1,6010C	AB
Arsenic, Total	0.972		mg/kg	0.868	0.180	2	05/03/18 20:40	05/04/18 03:12	EPA 3050B	1,6010C	AB
Barium, Total	168		mg/kg	0.839	0.146	2	05/04/18 20:00	05/07/18 15:23	EPA 3050B	1,6010C	LC
Beryllium, Total	0.235	J	mg/kg	0.419	0.028	2	05/04/18 20:00	05/07/18 15:23	EPA 3050B	1,6010C	LC
Cadmium, Total	0.260	J	mg/kg	0.868	0.085	2	05/03/18 20:40	05/04/18 03:12	EPA 3050B	1,6010C	AB
Calcium, Total	3060		mg/kg	8.39	2.94	2	05/04/18 20:00	05/07/18 15:23	EPA 3050B	1,6010C	LC
Chromium, Total	27.7		mg/kg	0.839	0.081	2	05/04/18 20:00	05/07/18 15:23	EPA 3050B	1,6010C	LC
Cobalt, Total	12.8		mg/kg	1.74	0.144	2	05/03/18 20:40	05/04/18 03:12	EPA 3050B	1,6010C	AB
Copper, Total	32.8		mg/kg	0.868	0.224	2	05/03/18 20:40	05/04/18 03:12	EPA 3050B	1,6010C	AB
Iron, Total	21700		mg/kg	4.34	0.783	2	05/03/18 20:40	05/04/18 03:12	EPA 3050B	1,6010C	AB
Lead, Total	7.71		mg/kg	4.34	0.232	2	05/03/18 20:40	05/04/18 03:12	EPA 3050B	1,6010C	AB
Magnesium, Total	6370		mg/kg	8.68	1.34	2	05/03/18 20:40	05/04/18 03:12	EPA 3050B	1,6010C	AB
Manganese, Total	211		mg/kg	0.868	0.138	2	05/03/18 20:40	05/04/18 03:12	EPA 3050B	1,6010C	AB
Mercury, Total	0.025	J	mg/kg	0.070	0.015	1	05/03/18 07:30	05/03/18 19:48	EPA 7471B	1,7471B	EA
Nickel, Total	17.0		mg/kg	2.17	0.210	2	05/03/18 20:40	05/04/18 03:12	EPA 3050B	1,6010C	AB
Potassium, Total	6800		mg/kg	217	12.5	2	05/03/18 20:40	05/04/18 03:12	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.74	0.224	2	05/03/18 20:40	05/04/18 03:12	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.868	0.246	2	05/03/18 20:40	05/04/18 03:12	EPA 3050B	1,6010C	AB
Sodium, Total	203		mg/kg	174	2.73	2	05/03/18 20:40	05/04/18 03:12	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.74	0.273	2	05/03/18 20:40	05/04/18 03:12	EPA 3050B	1,6010C	AB
Vanadium, Total	41.4		mg/kg	0.868	0.176	2	05/03/18 20:40	05/04/18 03:12	EPA 3050B	1,6010C	AB
Zinc, Total	49.6		mg/kg	4.34	0.254	2	05/03/18 20:40	05/04/18 03:12	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	28		mg/kg	0.88	0.89	1		05/07/18 15:23	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-09
Client ID: TP-13A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 08:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	16600		mg/kg	9.30	2.51	2	05/03/18 20:40	05/04/18 03:17	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.65	0.353	2	05/03/18 20:40	05/04/18 03:17	EPA 3050B	1,6010C	AB
Arsenic, Total	1.49		mg/kg	0.930	0.193	2	05/03/18 20:40	05/04/18 03:17	EPA 3050B	1,6010C	AB
Barium, Total	208		mg/kg	0.885	0.154	2	05/04/18 20:00	05/07/18 15:28	EPA 3050B	1,6010C	LC
Beryllium, Total	0.319	J	mg/kg	0.442	0.029	2	05/04/18 20:00	05/07/18 15:28	EPA 3050B	1,6010C	LC
Cadmium, Total	0.326	J	mg/kg	0.930	0.091	2	05/03/18 20:40	05/04/18 03:17	EPA 3050B	1,6010C	AB
Calcium, Total	3200		mg/kg	8.85	3.10	2	05/04/18 20:00	05/07/18 15:28	EPA 3050B	1,6010C	LC
Chromium, Total	31.1		mg/kg	0.885	0.085	2	05/04/18 20:00	05/07/18 15:28	EPA 3050B	1,6010C	LC
Cobalt, Total	14.5		mg/kg	1.86	0.154	2	05/03/18 20:40	05/04/18 03:17	EPA 3050B	1,6010C	AB
Copper, Total	42.6		mg/kg	0.930	0.240	2	05/03/18 20:40	05/04/18 03:17	EPA 3050B	1,6010C	AB
Iron, Total	26800		mg/kg	4.65	0.840	2	05/03/18 20:40	05/04/18 03:17	EPA 3050B	1,6010C	AB
Lead, Total	17.9		mg/kg	4.65	0.249	2	05/03/18 20:40	05/04/18 03:17	EPA 3050B	1,6010C	AB
Magnesium, Total	7690		mg/kg	9.30	1.43	2	05/03/18 20:40	05/04/18 03:17	EPA 3050B	1,6010C	AB
Manganese, Total	271		mg/kg	0.930	0.148	2	05/03/18 20:40	05/04/18 03:17	EPA 3050B	1,6010C	AB
Mercury, Total	0.028	J	mg/kg	0.075	0.016	1	05/03/18 07:30	05/03/18 19:50	EPA 7471B	1,7471B	EA
Nickel, Total	21.7		mg/kg	2.32	0.225	2	05/03/18 20:40	05/04/18 03:17	EPA 3050B	1,6010C	AB
Potassium, Total	7810		mg/kg	232	13.4	2	05/03/18 20:40	05/04/18 03:17	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.86	0.240	2	05/03/18 20:40	05/04/18 03:17	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.930	0.263	2	05/03/18 20:40	05/04/18 03:17	EPA 3050B	1,6010C	AB
Sodium, Total	205		mg/kg	186	2.93	2	05/03/18 20:40	05/04/18 03:17	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.86	0.293	2	05/03/18 20:40	05/04/18 03:17	EPA 3050B	1,6010C	AB
Vanadium, Total	52.7		mg/kg	0.930	0.189	2	05/03/18 20:40	05/04/18 03:17	EPA 3050B	1,6010C	AB
Zinc, Total	56.8		mg/kg	4.65	0.272	2	05/03/18 20:40	05/04/18 03:17	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	31		mg/kg	0.94	0.94	1		05/07/18 15:28	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-12
Client ID: TP-13B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 09:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	13600		mg/kg	8.72	2.35	2	05/03/18 20:40	05/04/18 03:21	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.36	0.331	2	05/03/18 20:40	05/04/18 03:21	EPA 3050B	1,6010C	AB
Arsenic, Total	1.13		mg/kg	0.872	0.181	2	05/03/18 20:40	05/04/18 03:21	EPA 3050B	1,6010C	AB
Barium, Total	168		mg/kg	0.869	0.151	2	05/04/18 20:00	05/07/18 15:45	EPA 3050B	1,6010C	LC
Beryllium, Total	0.278	J	mg/kg	0.434	0.029	2	05/04/18 20:00	05/07/18 15:45	EPA 3050B	1,6010C	LC
Cadmium, Total	0.262	J	mg/kg	0.872	0.085	2	05/03/18 20:40	05/04/18 03:21	EPA 3050B	1,6010C	AB
Calcium, Total	2780		mg/kg	8.69	3.04	2	05/04/18 20:00	05/07/18 15:45	EPA 3050B	1,6010C	LC
Chromium, Total	27.6		mg/kg	0.869	0.083	2	05/04/18 20:00	05/07/18 15:45	EPA 3050B	1,6010C	LC
Cobalt, Total	11.5		mg/kg	1.74	0.145	2	05/03/18 20:40	05/04/18 03:21	EPA 3050B	1,6010C	AB
Copper, Total	32.4		mg/kg	0.872	0.225	2	05/03/18 20:40	05/04/18 03:21	EPA 3050B	1,6010C	AB
Iron, Total	22200		mg/kg	4.36	0.787	2	05/03/18 20:40	05/04/18 03:21	EPA 3050B	1,6010C	AB
Lead, Total	10.4		mg/kg	4.36	0.234	2	05/03/18 20:40	05/04/18 03:21	EPA 3050B	1,6010C	AB
Magnesium, Total	5800		mg/kg	8.72	1.34	2	05/03/18 20:40	05/04/18 03:21	EPA 3050B	1,6010C	AB
Manganese, Total	237		mg/kg	0.872	0.138	2	05/03/18 20:40	05/04/18 03:21	EPA 3050B	1,6010C	AB
Mercury, Total	0.035	J	mg/kg	0.071	0.015	1	05/03/18 07:30	05/03/18 19:51	EPA 7471B	1,7471B	EA
Nickel, Total	17.1		mg/kg	2.18	0.211	2	05/03/18 20:40	05/04/18 03:21	EPA 3050B	1,6010C	AB
Potassium, Total	6330		mg/kg	218	12.6	2	05/03/18 20:40	05/04/18 03:21	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.74	0.225	2	05/03/18 20:40	05/04/18 03:21	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.872	0.247	2	05/03/18 20:40	05/04/18 03:21	EPA 3050B	1,6010C	AB
Sodium, Total	141	J	mg/kg	174	2.74	2	05/03/18 20:40	05/04/18 03:21	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.74	0.274	2	05/03/18 20:40	05/04/18 03:21	EPA 3050B	1,6010C	AB
Vanadium, Total	36.9		mg/kg	0.872	0.177	2	05/03/18 20:40	05/04/18 03:21	EPA 3050B	1,6010C	AB
Zinc, Total	49.9		mg/kg	4.36	0.255	2	05/03/18 20:40	05/04/18 03:21	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	28		mg/kg	0.90	0.90	1		05/07/18 15:45	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-15
Client ID: TP-15A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 09:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	13400		mg/kg	8.64	2.33	2	05/03/18 20:40	05/04/18 03:26	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.32	0.328	2	05/03/18 20:40	05/04/18 03:26	EPA 3050B	1,6010C	AB
Arsenic, Total	1.65		mg/kg	0.864	0.180	2	05/03/18 20:40	05/04/18 03:26	EPA 3050B	1,6010C	AB
Barium, Total	148		mg/kg	0.878	0.153	2	05/04/18 20:00	05/07/18 15:49	EPA 3050B	1,6010C	LC
Beryllium, Total	0.219	J	mg/kg	0.439	0.029	2	05/04/18 20:00	05/07/18 15:49	EPA 3050B	1,6010C	LC
Cadmium, Total	0.294	J	mg/kg	0.864	0.085	2	05/03/18 20:40	05/04/18 03:26	EPA 3050B	1,6010C	AB
Calcium, Total	3630		mg/kg	8.78	3.07	2	05/04/18 20:00	05/07/18 15:49	EPA 3050B	1,6010C	LC
Chromium, Total	28.6		mg/kg	0.878	0.084	2	05/04/18 20:00	05/07/18 15:49	EPA 3050B	1,6010C	LC
Cobalt, Total	12.6		mg/kg	1.73	0.143	2	05/03/18 20:40	05/04/18 03:26	EPA 3050B	1,6010C	AB
Copper, Total	38.0		mg/kg	0.864	0.223	2	05/03/18 20:40	05/04/18 03:26	EPA 3050B	1,6010C	AB
Iron, Total	22300		mg/kg	4.32	0.780	2	05/03/18 20:40	05/04/18 03:26	EPA 3050B	1,6010C	AB
Lead, Total	19.0		mg/kg	4.32	0.232	2	05/03/18 20:40	05/04/18 03:26	EPA 3050B	1,6010C	AB
Magnesium, Total	7030		mg/kg	8.64	1.33	2	05/03/18 20:40	05/04/18 03:26	EPA 3050B	1,6010C	AB
Manganese, Total	249		mg/kg	0.864	0.137	2	05/03/18 20:40	05/04/18 03:26	EPA 3050B	1,6010C	AB
Mercury, Total	0.058	J	mg/kg	0.071	0.015	1	05/03/18 07:30	05/03/18 19:53	EPA 7471B	1,7471B	EA
Nickel, Total	18.5		mg/kg	2.16	0.209	2	05/03/18 20:40	05/04/18 03:26	EPA 3050B	1,6010C	AB
Potassium, Total	7140		mg/kg	216	12.4	2	05/03/18 20:40	05/04/18 03:26	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.73	0.223	2	05/03/18 20:40	05/04/18 03:26	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.864	0.244	2	05/03/18 20:40	05/04/18 03:26	EPA 3050B	1,6010C	AB
Sodium, Total	206		mg/kg	173	2.72	2	05/03/18 20:40	05/04/18 03:26	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.73	0.272	2	05/03/18 20:40	05/04/18 03:26	EPA 3050B	1,6010C	AB
Vanadium, Total	46.4		mg/kg	0.864	0.175	2	05/03/18 20:40	05/04/18 03:26	EPA 3050B	1,6010C	AB
Zinc, Total	56.5		mg/kg	4.32	0.253	2	05/03/18 20:40	05/04/18 03:26	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	29		mg/kg	0.89	0.89	1		05/07/18 15:49	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-18
Client ID: TP-15B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 09:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8920		mg/kg	8.56	2.31	2	05/03/18 20:40	05/04/18 03:31	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.28	0.325	2	05/03/18 20:40	05/04/18 03:31	EPA 3050B	1,6010C	AB
Arsenic, Total	1.33		mg/kg	0.856	0.178	2	05/03/18 20:40	05/04/18 03:31	EPA 3050B	1,6010C	AB
Barium, Total	87.7		mg/kg	0.855	0.149	2	05/04/18 20:00	05/07/18 15:54	EPA 3050B	1,6010C	LC
Beryllium, Total	0.197	J	mg/kg	0.428	0.028	2	05/04/18 20:00	05/07/18 15:54	EPA 3050B	1,6010C	LC
Cadmium, Total	0.223	J	mg/kg	0.856	0.084	2	05/03/18 20:40	05/04/18 03:31	EPA 3050B	1,6010C	AB
Calcium, Total	1440		mg/kg	8.55	2.99	2	05/04/18 20:00	05/07/18 15:54	EPA 3050B	1,6010C	LC
Chromium, Total	17.2		mg/kg	0.855	0.082	2	05/04/18 20:00	05/07/18 15:54	EPA 3050B	1,6010C	LC
Cobalt, Total	8.52		mg/kg	1.71	0.142	2	05/03/18 20:40	05/04/18 03:31	EPA 3050B	1,6010C	AB
Copper, Total	20.8		mg/kg	0.856	0.221	2	05/03/18 20:40	05/04/18 03:31	EPA 3050B	1,6010C	AB
Iron, Total	16200		mg/kg	4.28	0.773	2	05/03/18 20:40	05/04/18 03:31	EPA 3050B	1,6010C	AB
Lead, Total	14.4		mg/kg	4.28	0.230	2	05/03/18 20:40	05/04/18 03:31	EPA 3050B	1,6010C	AB
Magnesium, Total	4120		mg/kg	8.56	1.32	2	05/03/18 20:40	05/04/18 03:31	EPA 3050B	1,6010C	AB
Manganese, Total	251		mg/kg	0.856	0.136	2	05/03/18 20:40	05/04/18 03:31	EPA 3050B	1,6010C	AB
Mercury, Total	0.043	J	mg/kg	0.070	0.015	1	05/03/18 07:30	05/03/18 19:59	EPA 7471B	1,7471B	EA
Nickel, Total	15.0		mg/kg	2.14	0.207	2	05/03/18 20:40	05/04/18 03:31	EPA 3050B	1,6010C	AB
Potassium, Total	3750		mg/kg	214	12.3	2	05/03/18 20:40	05/04/18 03:31	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.71	0.221	2	05/03/18 20:40	05/04/18 03:31	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.856	0.242	2	05/03/18 20:40	05/04/18 03:31	EPA 3050B	1,6010C	AB
Sodium, Total	109	J	mg/kg	171	2.70	2	05/03/18 20:40	05/04/18 03:31	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.71	0.270	2	05/03/18 20:40	05/04/18 03:31	EPA 3050B	1,6010C	AB
Vanadium, Total	27.4		mg/kg	0.856	0.174	2	05/03/18 20:40	05/04/18 03:31	EPA 3050B	1,6010C	AB
Zinc, Total	38.6		mg/kg	4.28	0.251	2	05/03/18 20:40	05/04/18 03:31	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	17		mg/kg	0.88	0.88	1		05/07/18 15:54	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-21
Client ID: TP-16_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 10:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8890		mg/kg	8.25	2.23	2	05/03/18 20:40	05/04/18 03:35	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.12	0.314	2	05/03/18 20:40	05/04/18 03:35	EPA 3050B	1,6010C	AB
Arsenic, Total	1.88		mg/kg	0.825	0.172	2	05/03/18 20:40	05/04/18 03:35	EPA 3050B	1,6010C	AB
Barium, Total	88.2		mg/kg	0.845	0.147	2	05/04/18 20:00	05/07/18 15:58	EPA 3050B	1,6010C	LC
Beryllium, Total	0.161	J	mg/kg	0.423	0.028	2	05/04/18 20:00	05/07/18 15:58	EPA 3050B	1,6010C	LC
Cadmium, Total	0.198	J	mg/kg	0.825	0.081	2	05/03/18 20:40	05/04/18 03:35	EPA 3050B	1,6010C	AB
Calcium, Total	2980		mg/kg	8.45	2.96	2	05/04/18 20:00	05/07/18 15:58	EPA 3050B	1,6010C	LC
Chromium, Total	16.3		mg/kg	0.845	0.081	2	05/04/18 20:00	05/07/18 15:58	EPA 3050B	1,6010C	LC
Cobalt, Total	7.02		mg/kg	1.65	0.137	2	05/03/18 20:40	05/04/18 03:35	EPA 3050B	1,6010C	AB
Copper, Total	16.7		mg/kg	0.825	0.213	2	05/03/18 20:40	05/04/18 03:35	EPA 3050B	1,6010C	AB
Iron, Total	15100		mg/kg	4.12	0.745	2	05/03/18 20:40	05/04/18 03:35	EPA 3050B	1,6010C	AB
Lead, Total	44.7		mg/kg	4.12	0.221	2	05/03/18 20:40	05/04/18 03:35	EPA 3050B	1,6010C	AB
Magnesium, Total	4020		mg/kg	8.25	1.27	2	05/03/18 20:40	05/04/18 03:35	EPA 3050B	1,6010C	AB
Manganese, Total	240		mg/kg	0.825	0.131	2	05/03/18 20:40	05/04/18 03:35	EPA 3050B	1,6010C	AB
Mercury, Total	0.388		mg/kg	0.068	0.014	1	05/03/18 07:30	05/03/18 20:01	EPA 7471B	1,7471B	EA
Nickel, Total	9.24		mg/kg	2.06	0.200	2	05/03/18 20:40	05/04/18 03:35	EPA 3050B	1,6010C	AB
Potassium, Total	3800		mg/kg	206	11.9	2	05/03/18 20:40	05/04/18 03:35	EPA 3050B	1,6010C	AB
Selenium, Total	0.256	J	mg/kg	1.65	0.213	2	05/03/18 20:40	05/04/18 03:35	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.825	0.234	2	05/03/18 20:40	05/04/18 03:35	EPA 3050B	1,6010C	AB
Sodium, Total	97.6	J	mg/kg	165	2.60	2	05/03/18 20:40	05/04/18 03:35	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.65	0.260	2	05/03/18 20:40	05/04/18 03:35	EPA 3050B	1,6010C	AB
Vanadium, Total	27.1		mg/kg	0.825	0.167	2	05/03/18 20:40	05/04/18 03:35	EPA 3050B	1,6010C	AB
Zinc, Total	41.3		mg/kg	4.12	0.242	2	05/03/18 20:40	05/04/18 03:35	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	16		mg/kg	0.86	0.86	1		05/07/18 15:58	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-24
Client ID: TP-17A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 11:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12500		mg/kg	9.25	2.50	2	05/03/18 20:40	05/04/18 03:40	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.62	0.352	2	05/03/18 20:40	05/04/18 03:40	EPA 3050B	1,6010C	AB
Arsenic, Total	1.75		mg/kg	0.925	0.192	2	05/03/18 20:40	05/04/18 03:40	EPA 3050B	1,6010C	AB
Barium, Total	126		mg/kg	0.899	0.156	2	05/04/18 20:00	05/07/18 16:02	EPA 3050B	1,6010C	LC
Beryllium, Total	0.207	J	mg/kg	0.449	0.030	2	05/04/18 20:00	05/07/18 16:02	EPA 3050B	1,6010C	LC
Cadmium, Total	0.333	J	mg/kg	0.925	0.091	2	05/03/18 20:40	05/04/18 03:40	EPA 3050B	1,6010C	AB
Calcium, Total	19000		mg/kg	8.99	3.14	2	05/04/18 20:00	05/07/18 16:02	EPA 3050B	1,6010C	LC
Chromium, Total	24.7		mg/kg	0.899	0.086	2	05/04/18 20:00	05/07/18 16:02	EPA 3050B	1,6010C	LC
Cobalt, Total	8.66		mg/kg	1.85	0.154	2	05/03/18 20:40	05/04/18 03:40	EPA 3050B	1,6010C	AB
Copper, Total	36.6		mg/kg	0.925	0.239	2	05/03/18 20:40	05/04/18 03:40	EPA 3050B	1,6010C	AB
Iron, Total	20900		mg/kg	4.62	0.835	2	05/03/18 20:40	05/04/18 03:40	EPA 3050B	1,6010C	AB
Lead, Total	30.2		mg/kg	4.62	0.248	2	05/03/18 20:40	05/04/18 03:40	EPA 3050B	1,6010C	AB
Magnesium, Total	6900		mg/kg	9.25	1.42	2	05/03/18 20:40	05/04/18 03:40	EPA 3050B	1,6010C	AB
Manganese, Total	279		mg/kg	0.925	0.147	2	05/03/18 20:40	05/04/18 03:40	EPA 3050B	1,6010C	AB
Mercury, Total	0.043	J	mg/kg	0.073	0.015	1	05/03/18 07:30	05/03/18 20:02	EPA 7471B	1,7471B	EA
Nickel, Total	11.6		mg/kg	2.31	0.224	2	05/03/18 20:40	05/04/18 03:40	EPA 3050B	1,6010C	AB
Potassium, Total	6640		mg/kg	231	13.3	2	05/03/18 20:40	05/04/18 03:40	EPA 3050B	1,6010C	AB
Selenium, Total	0.444	J	mg/kg	1.85	0.239	2	05/03/18 20:40	05/04/18 03:40	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.925	0.262	2	05/03/18 20:40	05/04/18 03:40	EPA 3050B	1,6010C	AB
Sodium, Total	316		mg/kg	185	2.91	2	05/03/18 20:40	05/04/18 03:40	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.85	0.291	2	05/03/18 20:40	05/04/18 03:40	EPA 3050B	1,6010C	AB
Vanadium, Total	40.7		mg/kg	0.925	0.188	2	05/03/18 20:40	05/04/18 03:40	EPA 3050B	1,6010C	AB
Zinc, Total	61.0		mg/kg	4.62	0.271	2	05/03/18 20:40	05/04/18 03:40	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	25		mg/kg	0.93	0.93	1		05/07/18 16:02	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-27
Client ID: TP-17B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 11:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	13300		mg/kg	9.04	2.44	2	05/03/18 20:40	05/04/18 04:03	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.52	0.343	2	05/03/18 20:40	05/04/18 04:03	EPA 3050B	1,6010C	AB
Arsenic, Total	1.08		mg/kg	0.904	0.188	2	05/03/18 20:40	05/04/18 04:03	EPA 3050B	1,6010C	AB
Barium, Total	161		mg/kg	0.864	0.150	2	05/04/18 20:00	05/07/18 16:06	EPA 3050B	1,6010C	LC
Beryllium, Total	0.268	J	mg/kg	0.432	0.029	2	05/04/18 20:00	05/07/18 16:06	EPA 3050B	1,6010C	LC
Cadmium, Total	0.325	J	mg/kg	0.904	0.089	2	05/03/18 20:40	05/04/18 04:03	EPA 3050B	1,6010C	AB
Calcium, Total	5780		mg/kg	8.64	3.02	2	05/04/18 20:00	05/07/18 16:06	EPA 3050B	1,6010C	LC
Chromium, Total	30.3		mg/kg	0.864	0.083	2	05/04/18 20:00	05/07/18 16:06	EPA 3050B	1,6010C	LC
Cobalt, Total	13.9		mg/kg	1.81	0.150	2	05/03/18 20:40	05/04/18 04:03	EPA 3050B	1,6010C	AB
Copper, Total	34.6		mg/kg	0.904	0.233	2	05/03/18 20:40	05/04/18 04:03	EPA 3050B	1,6010C	AB
Iron, Total	22000		mg/kg	4.52	0.816	2	05/03/18 20:40	05/04/18 04:03	EPA 3050B	1,6010C	AB
Lead, Total	11.5		mg/kg	4.52	0.242	2	05/03/18 20:40	05/04/18 04:03	EPA 3050B	1,6010C	AB
Magnesium, Total	6240		mg/kg	9.04	1.39	2	05/03/18 20:40	05/04/18 04:03	EPA 3050B	1,6010C	AB
Manganese, Total	285		mg/kg	0.904	0.144	2	05/03/18 20:40	05/04/18 04:03	EPA 3050B	1,6010C	AB
Mercury, Total	0.032	J	mg/kg	0.072	0.015	1	05/03/18 07:30	05/03/18 20:04	EPA 7471B	1,7471B	EA
Nickel, Total	21.6		mg/kg	2.26	0.219	2	05/03/18 20:40	05/04/18 04:03	EPA 3050B	1,6010C	AB
Potassium, Total	5850		mg/kg	226	13.0	2	05/03/18 20:40	05/04/18 04:03	EPA 3050B	1,6010C	AB
Selenium, Total	0.470	J	mg/kg	1.81	0.233	2	05/03/18 20:40	05/04/18 04:03	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.904	0.256	2	05/03/18 20:40	05/04/18 04:03	EPA 3050B	1,6010C	AB
Sodium, Total	175	J	mg/kg	181	2.85	2	05/03/18 20:40	05/04/18 04:03	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.81	0.285	2	05/03/18 20:40	05/04/18 04:03	EPA 3050B	1,6010C	AB
Vanadium, Total	38.3		mg/kg	0.904	0.183	2	05/03/18 20:40	05/04/18 04:03	EPA 3050B	1,6010C	AB
Zinc, Total	55.3		mg/kg	4.52	0.265	2	05/03/18 20:40	05/04/18 04:03	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	30		mg/kg	0.91	0.91	1		05/07/18 16:06	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-30
Client ID: TP-18A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 12:45
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12700		mg/kg	8.66	2.34	2	05/03/18 20:40	05/04/18 04:08	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.33	0.329	2	05/03/18 20:40	05/04/18 04:08	EPA 3050B	1,6010C	AB
Arsenic, Total	0.745	J	mg/kg	0.866	0.180	2	05/03/18 20:40	05/04/18 04:08	EPA 3050B	1,6010C	AB
Barium, Total	165		mg/kg	0.867	0.151	2	05/04/18 20:00	05/07/18 16:10	EPA 3050B	1,6010C	LC
Beryllium, Total	0.225	J	mg/kg	0.433	0.029	2	05/04/18 20:00	05/07/18 16:10	EPA 3050B	1,6010C	LC
Cadmium, Total	0.260	J	mg/kg	0.866	0.085	2	05/03/18 20:40	05/04/18 04:08	EPA 3050B	1,6010C	AB
Calcium, Total	2360		mg/kg	8.67	3.03	2	05/04/18 20:00	05/07/18 16:10	EPA 3050B	1,6010C	LC
Chromium, Total	31.0		mg/kg	0.867	0.083	2	05/04/18 20:00	05/07/18 16:10	EPA 3050B	1,6010C	LC
Cobalt, Total	12.8		mg/kg	1.73	0.144	2	05/03/18 20:40	05/04/18 04:08	EPA 3050B	1,6010C	AB
Copper, Total	31.5		mg/kg	0.866	0.223	2	05/03/18 20:40	05/04/18 04:08	EPA 3050B	1,6010C	AB
Iron, Total	20200		mg/kg	4.33	0.782	2	05/03/18 20:40	05/04/18 04:08	EPA 3050B	1,6010C	AB
Lead, Total	7.95		mg/kg	4.33	0.232	2	05/03/18 20:40	05/04/18 04:08	EPA 3050B	1,6010C	AB
Magnesium, Total	6200		mg/kg	8.66	1.33	2	05/03/18 20:40	05/04/18 04:08	EPA 3050B	1,6010C	AB
Manganese, Total	217		mg/kg	0.866	0.138	2	05/03/18 20:40	05/04/18 04:08	EPA 3050B	1,6010C	AB
Mercury, Total	0.020	J	mg/kg	0.072	0.015	1	05/03/18 07:30	05/03/18 20:06	EPA 7471B	1,7471B	EA
Nickel, Total	19.0		mg/kg	2.16	0.210	2	05/03/18 20:40	05/04/18 04:08	EPA 3050B	1,6010C	AB
Potassium, Total	6530		mg/kg	216	12.5	2	05/03/18 20:40	05/04/18 04:08	EPA 3050B	1,6010C	AB
Selenium, Total	0.242	J	mg/kg	1.73	0.223	2	05/03/18 20:40	05/04/18 04:08	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.866	0.245	2	05/03/18 20:40	05/04/18 04:08	EPA 3050B	1,6010C	AB
Sodium, Total	146	J	mg/kg	173	2.73	2	05/03/18 20:40	05/04/18 04:08	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.73	0.273	2	05/03/18 20:40	05/04/18 04:08	EPA 3050B	1,6010C	AB
Vanadium, Total	34.9		mg/kg	0.866	0.176	2	05/03/18 20:40	05/04/18 04:08	EPA 3050B	1,6010C	AB
Zinc, Total	51.2		mg/kg	4.33	0.254	2	05/03/18 20:40	05/04/18 04:08	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	31		mg/kg	0.89	0.89	1		05/07/18 16:10	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-33
Client ID: TP-18B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 12:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7630		mg/kg	8.52	2.30	2	05/03/18 20:40	05/04/18 04:12	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.26	0.324	2	05/03/18 20:40	05/04/18 04:12	EPA 3050B	1,6010C	AB
Arsenic, Total	1.72		mg/kg	0.852	0.177	2	05/03/18 20:40	05/04/18 04:12	EPA 3050B	1,6010C	AB
Barium, Total	75.1		mg/kg	0.855	0.149	2	05/04/18 20:00	05/07/18 16:15	EPA 3050B	1,6010C	LC
Beryllium, Total	0.137	J	mg/kg	0.428	0.028	2	05/04/18 20:00	05/07/18 16:15	EPA 3050B	1,6010C	LC
Cadmium, Total	0.188	J	mg/kg	0.852	0.084	2	05/03/18 20:40	05/04/18 04:12	EPA 3050B	1,6010C	AB
Calcium, Total	2320		mg/kg	8.55	2.99	2	05/04/18 20:00	05/07/18 16:15	EPA 3050B	1,6010C	LC
Chromium, Total	12.9		mg/kg	0.855	0.082	2	05/04/18 20:00	05/07/18 16:15	EPA 3050B	1,6010C	LC
Cobalt, Total	6.67		mg/kg	1.70	0.142	2	05/03/18 20:40	05/04/18 04:12	EPA 3050B	1,6010C	AB
Copper, Total	15.4		mg/kg	0.852	0.220	2	05/03/18 20:40	05/04/18 04:12	EPA 3050B	1,6010C	AB
Iron, Total	13500		mg/kg	4.26	0.770	2	05/03/18 20:40	05/04/18 04:12	EPA 3050B	1,6010C	AB
Lead, Total	25.6		mg/kg	4.26	0.228	2	05/03/18 20:40	05/04/18 04:12	EPA 3050B	1,6010C	AB
Magnesium, Total	3410		mg/kg	8.52	1.31	2	05/03/18 20:40	05/04/18 04:12	EPA 3050B	1,6010C	AB
Manganese, Total	194		mg/kg	0.852	0.136	2	05/03/18 20:40	05/04/18 04:12	EPA 3050B	1,6010C	AB
Mercury, Total	0.169		mg/kg	0.070	0.015	1	05/03/18 07:30	05/03/18 20:08	EPA 7471B	1,7471B	EA
Nickel, Total	9.27		mg/kg	2.13	0.206	2	05/03/18 20:40	05/04/18 04:12	EPA 3050B	1,6010C	AB
Potassium, Total	3340		mg/kg	213	12.3	2	05/03/18 20:40	05/04/18 04:12	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.70	0.220	2	05/03/18 20:40	05/04/18 04:12	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.852	0.241	2	05/03/18 20:40	05/04/18 04:12	EPA 3050B	1,6010C	AB
Sodium, Total	103	J	mg/kg	170	2.68	2	05/03/18 20:40	05/04/18 04:12	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.70	0.268	2	05/03/18 20:40	05/04/18 04:12	EPA 3050B	1,6010C	AB
Vanadium, Total	23.7		mg/kg	0.852	0.173	2	05/03/18 20:40	05/04/18 04:12	EPA 3050B	1,6010C	AB
Zinc, Total	37.1		mg/kg	4.26	0.250	2	05/03/18 20:40	05/04/18 04:12	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	13		mg/kg	0.90	0.90	1		05/07/18 16:15	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-36
Client ID: TP-19A_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 13:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9620		mg/kg	8.51	2.30	2	05/03/18 20:40	05/04/18 04:17	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.26	0.323	2	05/03/18 20:40	05/04/18 04:17	EPA 3050B	1,6010C	AB
Arsenic, Total	1.41		mg/kg	0.851	0.177	2	05/03/18 20:40	05/04/18 04:17	EPA 3050B	1,6010C	AB
Barium, Total	90.7		mg/kg	0.865	0.150	2	05/04/18 20:00	05/07/18 16:19	EPA 3050B	1,6010C	LC
Beryllium, Total	0.138	J	mg/kg	0.432	0.029	2	05/04/18 20:00	05/07/18 16:19	EPA 3050B	1,6010C	LC
Cadmium, Total	0.213	J	mg/kg	0.851	0.083	2	05/03/18 20:40	05/04/18 04:17	EPA 3050B	1,6010C	AB
Calcium, Total	3540		mg/kg	8.65	3.03	2	05/04/18 20:00	05/07/18 16:19	EPA 3050B	1,6010C	LC
Chromium, Total	19.3		mg/kg	0.865	0.083	2	05/04/18 20:00	05/07/18 16:19	EPA 3050B	1,6010C	LC
Cobalt, Total	10.1		mg/kg	1.70	0.141	2	05/03/18 20:40	05/04/18 04:17	EPA 3050B	1,6010C	AB
Copper, Total	17.6		mg/kg	0.851	0.220	2	05/03/18 20:40	05/04/18 04:17	EPA 3050B	1,6010C	AB
Iron, Total	16200		mg/kg	4.26	0.768	2	05/03/18 20:40	05/04/18 04:17	EPA 3050B	1,6010C	AB
Lead, Total	10.8		mg/kg	4.26	0.228	2	05/03/18 20:40	05/04/18 04:17	EPA 3050B	1,6010C	AB
Magnesium, Total	4840		mg/kg	8.51	1.31	2	05/03/18 20:40	05/04/18 04:17	EPA 3050B	1,6010C	AB
Manganese, Total	240		mg/kg	0.851	0.135	2	05/03/18 20:40	05/04/18 04:17	EPA 3050B	1,6010C	AB
Mercury, Total	0.061	J	mg/kg	0.069	0.015	1	05/03/18 07:30	05/03/18 20:10	EPA 7471B	1,7471B	EA
Nickel, Total	11.6		mg/kg	2.13	0.206	2	05/03/18 20:40	05/04/18 04:17	EPA 3050B	1,6010C	AB
Potassium, Total	4540		mg/kg	213	12.2	2	05/03/18 20:40	05/04/18 04:17	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.70	0.220	2	05/03/18 20:40	05/04/18 04:17	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.851	0.241	2	05/03/18 20:40	05/04/18 04:17	EPA 3050B	1,6010C	AB
Sodium, Total	121	J	mg/kg	170	2.68	2	05/03/18 20:40	05/04/18 04:17	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.70	0.268	2	05/03/18 20:40	05/04/18 04:17	EPA 3050B	1,6010C	AB
Vanadium, Total	29.2		mg/kg	0.851	0.173	2	05/03/18 20:40	05/04/18 04:17	EPA 3050B	1,6010C	AB
Zinc, Total	39.9		mg/kg	4.26	0.249	2	05/03/18 20:40	05/04/18 04:17	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	19		mg/kg	0.88	0.88	1		05/07/18 16:19	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-39
Client ID: TP-19B_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 14:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7090		mg/kg	8.68	2.34	2	05/03/18 20:40	05/04/18 04:22	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.34	0.330	2	05/03/18 20:40	05/04/18 04:22	EPA 3050B	1,6010C	AB
Arsenic, Total	1.41		mg/kg	0.868	0.180	2	05/03/18 20:40	05/04/18 04:22	EPA 3050B	1,6010C	AB
Barium, Total	66.8		mg/kg	0.898	0.156	2	05/04/18 20:00	05/07/18 16:36	EPA 3050B	1,6010C	LC
Beryllium, Total	0.081	J	mg/kg	0.449	0.030	2	05/04/18 20:00	05/07/18 16:36	EPA 3050B	1,6010C	LC
Cadmium, Total	0.234	J	mg/kg	0.868	0.085	2	05/03/18 20:40	05/04/18 04:22	EPA 3050B	1,6010C	AB
Calcium, Total	6950		mg/kg	8.98	3.14	2	05/04/18 20:00	05/07/18 16:36	EPA 3050B	1,6010C	LC
Chromium, Total	9.75		mg/kg	0.898	0.086	2	05/04/18 20:00	05/07/18 16:36	EPA 3050B	1,6010C	LC
Cobalt, Total	7.87		mg/kg	1.74	0.144	2	05/03/18 20:40	05/04/18 04:22	EPA 3050B	1,6010C	AB
Copper, Total	45.9		mg/kg	0.868	0.224	2	05/03/18 20:40	05/04/18 04:22	EPA 3050B	1,6010C	AB
Iron, Total	16800		mg/kg	4.34	0.784	2	05/03/18 20:40	05/04/18 04:22	EPA 3050B	1,6010C	AB
Lead, Total	7.82		mg/kg	4.34	0.232	2	05/03/18 20:40	05/04/18 04:22	EPA 3050B	1,6010C	AB
Magnesium, Total	4640		mg/kg	8.68	1.34	2	05/03/18 20:40	05/04/18 04:22	EPA 3050B	1,6010C	AB
Manganese, Total	202		mg/kg	0.868	0.138	2	05/03/18 20:40	05/04/18 04:22	EPA 3050B	1,6010C	AB
Mercury, Total	0.050	J	mg/kg	0.071	0.015	1	05/03/18 07:30	05/03/18 20:11	EPA 7471B	1,7471B	EA
Nickel, Total	7.78		mg/kg	2.17	0.210	2	05/03/18 20:40	05/04/18 04:22	EPA 3050B	1,6010C	AB
Potassium, Total	2930		mg/kg	217	12.5	2	05/03/18 20:40	05/04/18 04:22	EPA 3050B	1,6010C	AB
Selenium, Total	0.304	J	mg/kg	1.74	0.224	2	05/03/18 20:40	05/04/18 04:22	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.868	0.246	2	05/03/18 20:40	05/04/18 04:22	EPA 3050B	1,6010C	AB
Sodium, Total	132	J	mg/kg	174	2.73	2	05/03/18 20:40	05/04/18 04:22	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.74	0.273	2	05/03/18 20:40	05/04/18 04:22	EPA 3050B	1,6010C	AB
Vanadium, Total	40.8		mg/kg	0.868	0.176	2	05/03/18 20:40	05/04/18 04:22	EPA 3050B	1,6010C	AB
Zinc, Total	34.2		mg/kg	4.34	0.254	2	05/03/18 20:40	05/04/18 04:22	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	9.8		mg/kg	0.91	0.91	1		05/07/18 16:36	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-42
Client ID: TP-21_COMP
Sample Location: YONKERS, NY
Date Collected: 05/02/18 14:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	12400		mg/kg	8.32	2.25	2	05/03/18 20:40	05/04/18 04:26	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.16	0.316	2	05/03/18 20:40	05/04/18 04:26	EPA 3050B	1,6010C	AB
Arsenic, Total	1.64		mg/kg	0.832	0.173	2	05/03/18 20:40	05/04/18 04:26	EPA 3050B	1,6010C	AB
Barium, Total	126		mg/kg	0.837	0.146	2	05/04/18 20:00	05/07/18 16:40	EPA 3050B	1,6010C	LC
Beryllium, Total	0.226	J	mg/kg	0.419	0.028	2	05/04/18 20:00	05/07/18 16:40	EPA 3050B	1,6010C	LC
Cadmium, Total	0.316	J	mg/kg	0.832	0.082	2	05/03/18 20:40	05/04/18 04:26	EPA 3050B	1,6010C	AB
Calcium, Total	1650		mg/kg	8.37	2.93	2	05/04/18 20:00	05/07/18 16:40	EPA 3050B	1,6010C	LC
Chromium, Total	25.4		mg/kg	0.837	0.080	2	05/04/18 20:00	05/07/18 16:40	EPA 3050B	1,6010C	LC
Cobalt, Total	13.1		mg/kg	1.66	0.138	2	05/03/18 20:40	05/04/18 04:26	EPA 3050B	1,6010C	AB
Copper, Total	22.6		mg/kg	0.832	0.215	2	05/03/18 20:40	05/04/18 04:26	EPA 3050B	1,6010C	AB
Iron, Total	21900		mg/kg	4.16	0.751	2	05/03/18 20:40	05/04/18 04:26	EPA 3050B	1,6010C	AB
Lead, Total	15.6		mg/kg	4.16	0.223	2	05/03/18 20:40	05/04/18 04:26	EPA 3050B	1,6010C	AB
Magnesium, Total	6470		mg/kg	8.32	1.28	2	05/03/18 20:40	05/04/18 04:26	EPA 3050B	1,6010C	AB
Manganese, Total	527		mg/kg	0.832	0.132	2	05/03/18 20:40	05/04/18 04:26	EPA 3050B	1,6010C	AB
Mercury, Total	0.050	J	mg/kg	0.069	0.015	1	05/03/18 07:30	05/03/18 20:13	EPA 7471B	1,7471B	EA
Nickel, Total	16.9		mg/kg	2.08	0.201	2	05/03/18 20:40	05/04/18 04:26	EPA 3050B	1,6010C	AB
Potassium, Total	5840		mg/kg	208	12.0	2	05/03/18 20:40	05/04/18 04:26	EPA 3050B	1,6010C	AB
Selenium, Total	0.416	J	mg/kg	1.66	0.215	2	05/03/18 20:40	05/04/18 04:26	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.832	0.236	2	05/03/18 20:40	05/04/18 04:26	EPA 3050B	1,6010C	AB
Sodium, Total	117	J	mg/kg	166	2.62	2	05/03/18 20:40	05/04/18 04:26	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.66	0.262	2	05/03/18 20:40	05/04/18 04:26	EPA 3050B	1,6010C	AB
Vanadium, Total	39.4		mg/kg	0.832	0.169	2	05/03/18 20:40	05/04/18 04:26	EPA 3050B	1,6010C	AB
Zinc, Total	52.1		mg/kg	4.16	0.244	2	05/03/18 20:40	05/04/18 04:26	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	25		mg/kg	0.88	0.88	1		05/07/18 16:40	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-44
Client ID: TPX-_050218-C
Sample Location: YONKERS, NY
Date Collected: 05/02/18 00:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	15400		mg/kg	8.60	2.32	2	05/03/18 20:40	05/04/18 04:31	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.30	0.327	2	05/03/18 20:40	05/04/18 04:31	EPA 3050B	1,6010C	AB
Arsenic, Total	1.37		mg/kg	0.860	0.179	2	05/03/18 20:40	05/04/18 04:31	EPA 3050B	1,6010C	AB
Barium, Total	172		mg/kg	0.834	0.145	2	05/04/18 20:00	05/07/18 16:44	EPA 3050B	1,6010C	LC
Beryllium, Total	0.242	J	mg/kg	0.417	0.028	2	05/04/18 20:00	05/07/18 16:44	EPA 3050B	1,6010C	LC
Cadmium, Total	0.352	J	mg/kg	0.860	0.084	2	05/03/18 20:40	05/04/18 04:31	EPA 3050B	1,6010C	AB
Calcium, Total	3930		mg/kg	8.34	2.92	2	05/04/18 20:00	05/07/18 16:44	EPA 3050B	1,6010C	LC
Chromium, Total	29.6		mg/kg	0.834	0.080	2	05/04/18 20:00	05/07/18 16:44	EPA 3050B	1,6010C	LC
Cobalt, Total	16.3		mg/kg	1.72	0.143	2	05/03/18 20:40	05/04/18 04:31	EPA 3050B	1,6010C	AB
Copper, Total	49.1		mg/kg	0.860	0.222	2	05/03/18 20:40	05/04/18 04:31	EPA 3050B	1,6010C	AB
Iron, Total	25700		mg/kg	4.30	0.776	2	05/03/18 20:40	05/04/18 04:31	EPA 3050B	1,6010C	AB
Lead, Total	11.7		mg/kg	4.30	0.230	2	05/03/18 20:40	05/04/18 04:31	EPA 3050B	1,6010C	AB
Magnesium, Total	7780		mg/kg	8.60	1.32	2	05/03/18 20:40	05/04/18 04:31	EPA 3050B	1,6010C	AB
Manganese, Total	252		mg/kg	0.860	0.137	2	05/03/18 20:40	05/04/18 04:31	EPA 3050B	1,6010C	AB
Mercury, Total	0.024	J	mg/kg	0.069	0.015	1	05/03/18 07:30	05/03/18 20:15	EPA 7471B	1,7471B	EA
Nickel, Total	22.6		mg/kg	2.15	0.208	2	05/03/18 20:40	05/04/18 04:31	EPA 3050B	1,6010C	AB
Potassium, Total	7580		mg/kg	215	12.4	2	05/03/18 20:40	05/04/18 04:31	EPA 3050B	1,6010C	AB
Selenium, Total	0.241	J	mg/kg	1.72	0.222	2	05/03/18 20:40	05/04/18 04:31	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.860	0.243	2	05/03/18 20:40	05/04/18 04:31	EPA 3050B	1,6010C	AB
Sodium, Total	256		mg/kg	172	2.71	2	05/03/18 20:40	05/04/18 04:31	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.72	0.271	2	05/03/18 20:40	05/04/18 04:31	EPA 3050B	1,6010C	AB
Vanadium, Total	54.8		mg/kg	0.860	0.174	2	05/03/18 20:40	05/04/18 04:31	EPA 3050B	1,6010C	AB
Zinc, Total	62.9		mg/kg	4.30	0.252	2	05/03/18 20:40	05/04/18 04:31	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	30		mg/kg	0.89	0.89	1		05/07/18 16:44	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-45
Client ID: FB01
Sample Location: YONKERS, NY
Date Collected: 05/02/18 15:15
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.032	1	05/04/18 10:25	05/04/18 18:58	EPA 3005A	1,6010C	MC
Antimony, Total	ND		mg/l	0.050	0.007	1	05/04/18 10:25	05/04/18 18:58	EPA 3005A	1,6010C	MC
Arsenic, Total	ND		mg/l	0.005	0.002	1	05/04/18 10:25	05/04/18 18:58	EPA 3005A	1,6010C	MC
Barium, Total	ND		mg/l	0.010	0.002	1	05/04/18 10:25	05/04/18 18:58	EPA 3005A	1,6010C	MC
Beryllium, Total	ND		mg/l	0.005	0.001	1	05/04/18 10:25	05/04/18 18:58	EPA 3005A	1,6010C	MC
Cadmium, Total	ND		mg/l	0.005	0.001	1	05/04/18 10:25	05/04/18 18:58	EPA 3005A	1,6010C	MC
Calcium, Total	0.038	J	mg/l	0.100	0.035	1	05/04/18 10:25	05/04/18 18:58	EPA 3005A	1,6010C	MC
Chromium, Total	ND		mg/l	0.010	0.002	1	05/04/18 10:25	05/04/18 18:58	EPA 3005A	1,6010C	MC
Cobalt, Total	ND		mg/l	0.020	0.002	1	05/04/18 10:25	05/04/18 18:58	EPA 3005A	1,6010C	MC
Copper, Total	ND		mg/l	0.010	0.002	1	05/04/18 10:25	05/04/18 18:58	EPA 3005A	1,6010C	MC
Iron, Total	0.030	J	mg/l	0.050	0.009	1	05/04/18 10:25	05/04/18 18:58	EPA 3005A	1,6010C	MC
Lead, Total	ND		mg/l	0.010	0.003	1	05/04/18 10:25	05/04/18 18:58	EPA 3005A	1,6010C	MC
Magnesium, Total	0.019	J	mg/l	0.100	0.015	1	05/04/18 10:25	05/04/18 18:58	EPA 3005A	1,6010C	MC
Manganese, Total	ND		mg/l	0.010	0.002	1	05/04/18 10:25	05/04/18 18:58	EPA 3005A	1,6010C	MC
Mercury, Total	ND		mg/l	0.00020	0.00006	1	05/03/18 11:51	05/03/18 17:38	EPA 7470A	1,7470A	MG
Nickel, Total	ND		mg/l	0.025	0.002	1	05/04/18 10:25	05/04/18 18:58	EPA 3005A	1,6010C	MC
Potassium, Total	ND		mg/l	2.50	0.237	1	05/04/18 10:25	05/04/18 18:58	EPA 3005A	1,6010C	MC
Selenium, Total	ND		mg/l	0.010	0.004	1	05/04/18 10:25	05/04/18 18:58	EPA 3005A	1,6010C	MC
Silver, Total	ND		mg/l	0.007	0.003	1	05/04/18 10:25	05/04/18 18:58	EPA 3005A	1,6010C	MC
Sodium, Total	ND		mg/l	2.00	0.120	1	05/04/18 10:25	05/04/18 18:58	EPA 3005A	1,6010C	MC
Thallium, Total	ND		mg/l	0.020	0.003	1	05/04/18 10:25	05/04/18 18:58	EPA 3005A	1,6010C	MC
Vanadium, Total	ND		mg/l	0.010	0.002	1	05/04/18 10:25	05/04/18 18:58	EPA 3005A	1,6010C	MC
Zinc, Total	ND		mg/l	0.050	0.002	1	05/04/18 10:25	05/04/18 18:58	EPA 3005A	1,6010C	MC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		05/04/18 18:58	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03,06,09,12,15,18,21,24,27,30,33,36,39,42,44 Batch: WG1112090-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	05/03/18 07:30	05/03/18 19:37	1,7471B	EA

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 45 Batch: WG1112265-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	05/03/18 11:51	05/03/18 17:17	1,7470A	MG

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03,06,09,12,15,18,21,24,27,30,33,36,39,42,44 Batch: WG1112411-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	05/03/18 20:40	05/04/18 02:13	1,6010C	AB
Antimony, Total	ND		mg/kg	2.00	0.152	1	05/03/18 20:40	05/04/18 02:13	1,6010C	AB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	05/03/18 20:40	05/04/18 02:13	1,6010C	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	05/03/18 20:40	05/04/18 02:13	1,6010C	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	05/03/18 20:40	05/04/18 02:13	1,6010C	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	05/03/18 20:40	05/04/18 02:13	1,6010C	AB
Iron, Total	0.668	J	mg/kg	2.00	0.361	1	05/03/18 20:40	05/04/18 02:13	1,6010C	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	05/03/18 20:40	05/04/18 02:13	1,6010C	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	05/03/18 20:40	05/04/18 02:13	1,6010C	AB
Manganese, Total	ND		mg/kg	0.400	0.064	1	05/03/18 20:40	05/04/18 02:13	1,6010C	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	05/03/18 20:40	05/04/18 02:13	1,6010C	AB
Potassium, Total	ND		mg/kg	100	5.76	1	05/03/18 20:40	05/04/18 02:13	1,6010C	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	05/03/18 20:40	05/04/18 02:13	1,6010C	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	05/03/18 20:40	05/04/18 02:13	1,6010C	AB
Sodium, Total	ND		mg/kg	80.0	1.26	1	05/03/18 20:40	05/04/18 02:13	1,6010C	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	05/03/18 20:40	05/04/18 02:13	1,6010C	AB

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Vanadium, Total	ND	mg/kg	0.400	0.081	1	05/03/18 20:40	05/04/18 02:13	1,6010C	AB
Zinc, Total	ND	mg/kg	2.00	0.117	1	05/03/18 20:40	05/04/18 02:13	1,6010C	AB

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 45 Batch: WG1112630-1										
Aluminum, Total	ND		mg/l	0.100	0.032	1	05/04/18 10:25	05/04/18 18:11	1,6010C	MC
Antimony, Total	ND		mg/l	0.050	0.007	1	05/04/18 10:25	05/04/18 18:11	1,6010C	MC
Arsenic, Total	ND		mg/l	0.005	0.002	1	05/04/18 10:25	05/04/18 18:11	1,6010C	MC
Barium, Total	ND		mg/l	0.010	0.002	1	05/04/18 10:25	05/04/18 18:11	1,6010C	MC
Beryllium, Total	ND		mg/l	0.005	0.001	1	05/04/18 10:25	05/04/18 18:11	1,6010C	MC
Cadmium, Total	ND		mg/l	0.005	0.001	1	05/04/18 10:25	05/04/18 18:11	1,6010C	MC
Calcium, Total	ND		mg/l	0.100	0.035	1	05/04/18 10:25	05/04/18 18:11	1,6010C	MC
Chromium, Total	ND		mg/l	0.010	0.002	1	05/04/18 10:25	05/04/18 18:11	1,6010C	MC
Cobalt, Total	ND		mg/l	0.020	0.002	1	05/04/18 10:25	05/04/18 18:11	1,6010C	MC
Copper, Total	ND		mg/l	0.010	0.002	1	05/04/18 10:25	05/04/18 18:11	1,6010C	MC
Iron, Total	ND		mg/l	0.050	0.009	1	05/04/18 10:25	05/04/18 18:11	1,6010C	MC
Lead, Total	ND		mg/l	0.010	0.003	1	05/04/18 10:25	05/04/18 18:11	1,6010C	MC
Magnesium, Total	ND		mg/l	0.100	0.015	1	05/04/18 10:25	05/04/18 18:11	1,6010C	MC
Manganese, Total	ND		mg/l	0.010	0.002	1	05/04/18 10:25	05/04/18 18:11	1,6010C	MC
Nickel, Total	ND		mg/l	0.025	0.002	1	05/04/18 10:25	05/04/18 18:11	1,6010C	MC
Potassium, Total	ND		mg/l	2.50	0.237	1	05/04/18 10:25	05/04/18 18:11	1,6010C	MC
Selenium, Total	ND		mg/l	0.010	0.004	1	05/04/18 10:25	05/04/18 18:11	1,6010C	MC
Silver, Total	ND		mg/l	0.007	0.003	1	05/04/18 10:25	05/04/18 18:11	1,6010C	MC
Sodium, Total	ND		mg/l	2.00	0.120	1	05/04/18 10:25	05/04/18 18:11	1,6010C	MC
Thallium, Total	ND		mg/l	0.020	0.003	1	05/04/18 10:25	05/04/18 18:11	1,6010C	MC
Vanadium, Total	ND		mg/l	0.010	0.002	1	05/04/18 10:25	05/04/18 18:11	1,6010C	MC
Zinc, Total	ND		mg/l	0.050	0.002	1	05/04/18 10:25	05/04/18 18:11	1,6010C	MC

Prep Information

Digestion Method: EPA 3005A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03,06,09,12,15,18,21,24,27,30,33,36,39,42,44 Batch: WG1112810-1										
Antimony, Total	ND		mg/kg	2.00	0.152	1	05/04/18 20:00	05/07/18 14:54	1,6010C	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	05/04/18 20:00	05/07/18 14:54	1,6010C	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	05/04/18 20:00	05/07/18 14:54	1,6010C	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	05/04/18 20:00	05/07/18 14:54	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	05/04/18 20:00	05/07/18 14:54	1,6010C	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	05/04/18 20:00	05/07/18 14:54	1,6010C	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	05/04/18 20:00	05/07/18 14:54	1,6010C	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	05/04/18 20:00	05/07/18 14:54	1,6010C	LC
Lead, Total	0.144	J	mg/kg	2.00	0.107	1	05/04/18 20:00	05/07/18 14:54	1,6010C	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	05/04/18 20:00	05/07/18 14:54	1,6010C	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	05/04/18 20:00	05/07/18 14:54	1,6010C	LC

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18,21,24,27,30,33,36,39,42,44 Batch: WG1112090-2 SRM Lot Number: D098-540								
Mercury, Total	81		-		50-149	-		
Total Metals - Mansfield Lab Associated sample(s): 45 Batch: WG1112265-2								
Mercury, Total	81		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18,21,24,27,30,33,36,39,42,44 Batch: WG1112411-2 SRM Lot Number: D098-540					
Aluminum, Total	63	-	47-153	-	
Antimony, Total	125	-	6-194	-	
Arsenic, Total	85	-	83-117	-	
Cadmium, Total	89	-	82-117	-	
Cadmium, Total	84	-	82-117	-	
Cobalt, Total	86	-	84-116	-	
Iron, Total	74	-	60-140	-	
Lead, Total	85	-	82-117	-	
Magnesium, Total	79	-	76-124	-	
Manganese, Total	82	-	82-118	-	
Nickel, Total	84	-	82-117	-	
Potassium, Total	72	-	69-131	-	
Selenium, Total	82	-	78-121	-	
Silver, Total	82	-	80-120	-	
Sodium, Total	80	-	74-126	-	
Thallium, Total	81	-	80-119	-	
Vanadium, Total	81	-	79-121	-	
Zinc, Total	84	-	81-119	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 45 Batch: WG1112630-2					
Aluminum, Total	108	-	80-120	-	
Antimony, Total	97	-	80-120	-	
Arsenic, Total	112	-	80-120	-	
Barium, Total	100	-	80-120	-	
Beryllium, Total	100	-	80-120	-	
Cadmium, Total	111	-	80-120	-	
Calcium, Total	106	-	80-120	-	
Chromium, Total	98	-	80-120	-	
Cobalt, Total	99	-	80-120	-	
Copper, Total	98	-	80-120	-	
Iron, Total	106	-	80-120	-	
Lead, Total	109	-	80-120	-	
Magnesium, Total	105	-	80-120	-	
Manganese, Total	96	-	80-120	-	
Nickel, Total	100	-	80-120	-	
Potassium, Total	108	-	80-120	-	
Selenium, Total	112	-	80-120	-	
Silver, Total	103	-	80-120	-	
Sodium, Total	110	-	80-120	-	
Thallium, Total	106	-	80-120	-	
Vanadium, Total	101	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 45 Batch: WG1112630-2					
Zinc, Total	106	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18,21,24,27,30,33,36,39,42,44 Batch: WG1112810-2 SRM Lot Number: D098-540					
Antimony, Total	158	-	6-194	-	
Arsenic, Total	102	-	83-117	-	
Barium, Total	95	-	82-118	-	
Beryllium, Total	102	-	83-117	-	
Cadmium, Total	92	-	82-117	-	
Calcium, Total	92	-	81-118	-	
Chromium, Total	94	-	83-119	-	
Copper, Total	95	-	84-116	-	
Lead, Total	89	-	82-117	-	
Nickel, Total	90	-	82-117	-	
Zinc, Total	93	-	81-119	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18,21,24,27,30,33,36,39,42,44 QC Batch ID: WG1112090-3 QC Sample: L1815750-03 Client ID: TP-11A_COMP												
Mercury, Total	0.200	0.139	0.445	**176**	Q	-	-		80-120	-		20
Total Metals - Mansfield Lab Associated sample(s): 45 QC Batch ID: WG1112265-3 QC Sample: L1815645-09 Client ID: MS Sample												
Mercury, Total	0.00013J	0.005	0.00451	90		-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18,21,24,27,30,33,36,39,42,44 QC Batch ID: WG1112411-3 QC Sample: L1815750-03 Client ID: TP-11A_COMP										
Aluminum, Total	9560	174	9750	109		-	-	75-125	-	20
Antimony, Total	ND	43.6	37.8	87		-	-	75-125	-	20
Arsenic, Total	1.34	10.4	11.4	96		-	-	75-125	-	20
Cadmium, Total	0.268J	4.44	4.32	97		-	-	75-125	-	20
Cobalt, Total	9.72	43.6	46.5	84		-	-	75-125	-	20
Copper, Total	24.1	21.8	39.5	**71**	Q	-	-	75-125	-	20
Iron, Total	18700	87.1	18000	**0**	Q	-	-	75-125	-	20
Lead, Total	65.2	44.4	72.1	**16**	Q	-	-	75-125	-	20
Magnesium, Total	5300	871	6170	100		-	-	75-125	-	20
Manganese, Total	273.	43.6	304	**71**	Q	-	-	75-125	-	20
Nickel, Total	16.1	43.6	52.2	83		-	-	75-125	-	20
Potassium, Total	4870	871	5880	116		-	-	75-125	-	20
Selenium, Total	0.319J	10.4	10.2	98		-	-	75-125	-	20
Silver, Total	ND	26.1	26.8	102		-	-	75-125	-	20
Sodium, Total	123.J	871	987	113		-	-	75-125	-	20
Thallium, Total	ND	10.4	8.34	80		-	-	75-125	-	20
Vanadium, Total	27.8	43.6	65.5	86		-	-	75-125	-	20
Zinc, Total	55.9	43.6	90.4	79		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 45 QC Batch ID: WG1112630-3 QC Sample: L1815689-01 Client ID: MS Sample									
Aluminum, Total	0.202	2	2.39	109	-	-	75-125	-	20
Antimony, Total	0.010J	0.5	0.508	102	-	-	75-125	-	20
Arsenic, Total	ND	0.12	0.134	112	-	-	75-125	-	20
Barium, Total	0.038	2	2.04	100	-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.050	99	-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.056	110	-	-	75-125	-	20
Calcium, Total	4.93	10	15.7	108	-	-	75-125	-	20
Chromium, Total	ND	0.2	0.198	99	-	-	75-125	-	20
Cobalt, Total	ND	0.5	0.494	99	-	-	75-125	-	20
Copper, Total	ND	0.25	0.246	98	-	-	75-125	-	20
Iron, Total	ND	1	1.07	107	-	-	75-125	-	20
Lead, Total	ND	0.51	0.543	106	-	-	75-125	-	20
Magnesium, Total	2.07	10	12.5	104	-	-	75-125	-	20
Manganese, Total	0.056	0.5	0.541	97	-	-	75-125	-	20
Nickel, Total	0.006J	0.5	0.502	100	-	-	75-125	-	20
Potassium, Total	5.58	10	16.4	108	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.136	113	-	-	75-125	-	20
Silver, Total	ND	0.05	0.051	102	-	-	75-125	-	20
Sodium, Total	5.30	10	16.5	112	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.124	103	-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.504	101	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 45 QC Batch ID: WG1112630-3 QC Sample: L1815689-01 Client ID: MS Sample										
Zinc, Total	0.039J	0.5	0.565	113		-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18,21,24,27,30,33,36,39,42,44 QC Batch ID: WG1112810-3 QC Sample: L1815750-03 Client ID: TP-11A_COMP										
Antimony, Total	ND	42.6	35.2	82		-	-	75-125	-	20
Arsenic, Total	1.10	10.2	11.7	104		-	-	75-125	-	20
Barium, Total	118.	170	292	102		-	-	75-125	-	20
Beryllium, Total	0.217J	4.26	4.31	101		-	-	75-125	-	20
Cadmium, Total	ND	4.35	2.78	**64**	Q	-	-	75-125	-	20
Calcium, Total	5180	852	5520	**40**	Q	-	-	75-125	-	20
Chromium, Total	19.9	17	40.4	120		-	-	75-125	-	20
Copper, Total	23.7	21.3	50.0	123		-	-	75-125	-	20
Lead, Total	48.8	43.5	69.9	**48**	Q	-	-	75-125	-	20
Nickel, Total	16.1	42.6	49.8	79		-	-	75-125	-	20
Zinc, Total	64.3	42.6	92.9	**67**	Q	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18,21,24,27,30,33,36,39,42,44 QC Batch ID: WG1112090-4 QC Sample: L1815750-03 Client ID: TP-11A_COMP						
Mercury, Total	0.200	0.223	mg/kg	11		20
Total Metals - Mansfield Lab Associated sample(s): 45 QC Batch ID: WG1112265-4 QC Sample: L1815645-09 Client ID: DUP Sample						
Mercury, Total	0.00013J	0.00018J	mg/l	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18,21,24,27,30,33,36,39,42,44 QC Batch ID: WG1112411-4 QC Sample: L1815750-03 Client ID: TP-11A_COMP						
Aluminum, Total	9560	10500	mg/kg	9		20
Antimony, Total	ND	0.359J	mg/kg	NC		20
Arsenic, Total	1.34	1.08	mg/kg	**21**	Q	20
Cadmium, Total	0.268J	0.284J	mg/kg	NC		20
Cobalt, Total	9.72	11.2	mg/kg	14		20
Copper, Total	24.1	23.6	mg/kg	2		20
Iron, Total	18700	20400	mg/kg	9		20
Lead, Total	65.2	32.1	mg/kg	**68**	Q	20
Magnesium, Total	5300	6230	mg/kg	16		20
Manganese, Total	273.	272	mg/kg	0		20
Nickel, Total	16.1	17.2	mg/kg	7		20
Potassium, Total	4870	5820	mg/kg	18		20
Selenium, Total	0.319J	0.326J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	123.J	123J	mg/kg	NC		20
Thallium, Total	ND	ND	mg/kg	NC		20
Vanadium, Total	27.8	29.2	mg/kg	5		20
Zinc, Total	55.9	58.7	mg/kg	5		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18,21,24,27,30,33,36,39,42,44 QC Batch ID: WG1112810-4 QC Sample: L1815750-03 Client ID: TP-11A_COMP						
Barium, Total	118.	134	mg/kg	13		20
Beryllium, Total	0.217J	0.210J	mg/kg	NC		20
Calcium, Total	5180	8460	mg/kg	**48**	Q	20
Chromium, Total	19.9	23.5	mg/kg	17		20

INORGANICS
&
MISCELLANEOUS

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-01
Client ID: TP-11A_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 07:25
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.3		%	0.100	NA	1	-	05/03/18 13:21	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-02
Client ID: TP-11A_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 07:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.5		%	0.100	NA	1	-	05/03/18 13:21	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-03
Client ID: TP-11A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 07:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.3		%	0.100	NA	1	-	05/03/18 13:21	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/03/18 23:00	05/04/18 12:30	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.886	0.177	1	05/03/18 23:50	05/04/18 14:53	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-04
Client ID: TP-11B_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 07:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.0		%	0.100	NA	1	-	05/03/18 13:21	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-05
Client ID: TP-11B_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 07:40
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.5		%	0.100	NA	1	-	05/03/18 13:21	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-06
Client ID: TP-11B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 08:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.4		%	0.100	NA	1	-	05/03/18 13:21	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/03/18 23:00	05/04/18 12:35	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.885	0.177	1	05/03/18 23:50	05/04/18 14:53	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-07
Client ID: TP-13A_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 08:25
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.9		%	0.100	NA	1	-	05/03/18 13:21	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-08
Client ID: TP-13A_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 08:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.6		%	0.100	NA	1	-	05/03/18 13:21	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-09
Client ID: TP-13A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 08:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.4		%	0.100	NA	1	-	05/03/18 13:21	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/03/18 23:00	05/04/18 12:36	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.937	0.187	1	05/03/18 23:50	05/04/18 14:53	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-10
Client ID: TP-13B_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 08:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.3		%	0.100	NA	1	-	05/03/18 13:21	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-11
Client ID: TP-13B_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 08:40
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.8		%	0.100	NA	1	-	05/03/18 13:21	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-12
Client ID: TP-13B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 09:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.0		%	0.100	NA	1	-	05/03/18 13:21	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/03/18 23:00	05/04/18 12:37	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.899	0.180	1	05/03/18 23:50	05/04/18 14:53	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-13
Client ID: TP-15A_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 09:20
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.8		%	0.100	NA	1	-	05/03/18 13:21	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-14
Client ID: TP-15A_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 09:25
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.0		%	0.100	NA	1	-	05/03/18 13:21	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-15
Client ID: TP-15A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 09:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.7		%	0.100	NA	1	-	05/03/18 13:21	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/03/18 23:00	05/04/18 12:38	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.892	0.178	1	05/03/18 23:50	05/04/18 14:53	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-16
Client ID: TP-15B_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 09:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.8		%	0.100	NA	1	-	05/03/18 13:21	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-17
Client ID: TP-15B_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 09:40
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.7		%	0.100	NA	1	-	05/03/18 13:21	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-18
Client ID: TP-15B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 09:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.0		%	0.100	NA	1	-	05/03/18 13:21	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/03/18 23:00	05/04/18 13:57	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.879	0.176	1	05/03/18 23:50	05/04/18 14:53	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-19
Client ID: TP-16_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 10:20
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.7		%	0.100	NA	1	-	05/03/18 13:21	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-20
Client ID: TP-16_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 10:25
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.1		%	0.100	NA	1	-	05/03/18 13:21	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-21
Client ID: TP-16_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 10:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.3		%	0.100	NA	1	-	05/03/18 13:58	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/03/18 23:00	05/04/18 12:40	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.857	0.171	1	05/03/18 23:50	05/04/18 14:53	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-22
Client ID: TP-17A_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 11:25
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.3		%	0.100	NA	1	-	05/03/18 13:58	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-23
Client ID: TP-17A_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 11:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.7		%	0.100	NA	1	-	05/03/18 13:58	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-24
Client ID: TP-17A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 11:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.0		%	0.100	NA	1	-	05/03/18 13:58	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	05/03/18 23:00	05/04/18 12:41	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.930	0.186	1	05/03/18 23:50	05/04/18 14:53	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-25
Client ID: TP-17B_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 11:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6		%	0.100	NA	1	-	05/03/18 13:58	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-26
Client ID: TP-17B_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 11:40
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.0		%	0.100	NA	1	-	05/03/18 13:58	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-27
Client ID: TP-17B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 11:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.6		%	0.100	NA	1	-	05/03/18 13:58	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/03/18 23:00	05/04/18 12:42	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.913	0.183	1	05/03/18 23:50	05/04/18 14:53	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-28
Client ID: TP-18A_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 12:15
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.3		%	0.100	NA	1	-	05/03/18 13:58	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-29
Client ID: TP-18A_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 12:20
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.7		%	0.100	NA	1	-	05/03/18 13:58	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-30
Client ID: TP-18A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 12:45
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.7		%	0.100	NA	1	-	05/03/18 13:58	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/03/18 23:00	05/04/18 12:43	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.892	0.178	1	05/03/18 23:50	05/04/18 14:53	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-31
Client ID: TP-18B_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 12:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.6		%	0.100	NA	1	-	05/03/18 13:58	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-32
Client ID: TP-18B_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 12:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.2		%	0.100	NA	1	-	05/03/18 13:58	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-33
Client ID: TP-18B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 12:50
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.4		%	0.100	NA	1	-	05/03/18 13:58	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/03/18 23:00	05/04/18 12:54	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.895	0.179	1	05/03/18 23:50	05/04/18 14:53	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-34
Client ID: TP-19A_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 13:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.6		%	0.100	NA	1	-	05/03/18 13:58	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-35
Client ID: TP-19A_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 13:35
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.2		%	0.100	NA	1	-	05/03/18 13:58	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-36
Client ID: TP-19A_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 13:55
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.8		%	0.100	NA	1	-	05/03/18 13:58	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/03/18 23:00	05/04/18 12:57	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.881	0.176	1	05/03/18 23:50	05/04/18 14:53	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-37
Client ID: TP-19B_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 13:40
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.8		%	0.100	NA	1	-	05/03/18 13:58	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-38
Client ID: TP-19B_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 13:45
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.5		%	0.100	NA	1	-	05/03/18 13:58	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-39
Client ID: TP-19B_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 14:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.7		%	0.100	NA	1	-	05/03/18 13:58	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/03/18 23:00	05/04/18 12:58	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.912	0.182	1	05/03/18 23:50	05/04/18 14:53	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-40
Client ID: TP-21_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/02/18 14:15
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.1		%	0.100	NA	1	-	05/03/18 13:58	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-41
Client ID: TP-21_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/02/18 14:20
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.7		%	0.100	NA	1	-	05/03/18 14:52	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-42
Client ID: TP-21_COMP
Sample Location: YONKERS, NY

Date Collected: 05/02/18 14:30
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.1		%	0.100	NA	1	-	05/03/18 14:52	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.21	1	05/03/18 23:00	05/04/18 13:58	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.878	0.176	1	05/03/18 23:50	05/04/18 14:53	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-43
Client ID: TP-X_050218-G
Sample Location: YONKERS, NY

Date Collected: 05/02/18 00:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.4		%	0.100	NA	1	-	05/03/18 14:52	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-44
Client ID: TPX-_050218-C
Sample Location: YONKERS, NY

Date Collected: 05/02/18 00:00
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.3		%	0.100	NA	1	-	05/03/18 14:52	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/03/18 23:00	05/04/18 13:00	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.886	0.177	1	05/03/18 23:50	05/04/18 14:53	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

SAMPLE RESULTS

Lab ID: L1815750-45
Client ID: FB01
Sample Location: YONKERS, NY

Date Collected: 05/02/18 15:15
Date Received: 05/02/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/04/18 10:30	05/07/18 13:50	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/03/18 02:35	05/03/18 02:52	1,7196A	MA

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 45 Batch: WG1112055-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/03/18 02:35	05/03/18 02:51	1,7196A	MA
General Chemistry - Westborough Lab for sample(s): 03,06,09,12,15,18,21,24,27,30 Batch: WG1112366-1										
Cyanide, Total	ND		mg/kg	0.83	0.18	1	05/03/18 23:00	05/04/18 12:22	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 33,36,39,42,44 Batch: WG1112367-1										
Cyanide, Total	ND		mg/kg	0.83	0.18	1	05/03/18 23:00	05/04/18 12:23	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 03,06,09,12,15,18,21,24,27,30 Batch: WG1112451-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	05/03/18 23:50	05/04/18 14:53	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 33,36,39,42,44 Batch: WG1112452-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	05/03/18 23:50	05/04/18 14:53	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 45 Batch: WG1112600-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/04/18 10:30	05/07/18 13:37	1,9010C/9012B	LH

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815750

Report Date: 05/09/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 45 Batch: WG1112055-2								
Chromium, Hexavalent	96		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 03,06,09,12,15,18,21,24,27,30 Batch: WG1112366-2 WG1112366-3								
Cyanide, Total	**54**	Q	**67**	Q	80-120	23		35
General Chemistry - Westborough Lab Associated sample(s): 33,36,39,42,44 Batch: WG1112367-2 WG1112367-3								
Cyanide, Total	**53**	Q	**66**	Q	80-120	23		35
General Chemistry - Westborough Lab Associated sample(s): 03,06,09,12,15,18,21,24,27,30 Batch: WG1112451-2								
Chromium, Hexavalent	**79**	Q	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 33,36,39,42,44 Batch: WG1112452-2								
Chromium, Hexavalent	**79**	Q	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 45 Batch: WG1112600-2 WG1112600-3								
Cyanide, Total	93		100		85-115	7		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 45 QC Batch ID: WG1112055-4 QC Sample: L1815750-45 Client ID: FB01												
Chromium, Hexavalent	ND	0.1	0.095	95		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 03,06,09,12,15,18,21,24,27,30 QC Batch ID: WG1112366-4 WG1112366-5 QC Sample: L1815750-03 Client ID: TP-11A_COMP												
Cyanide, Total	ND	11	10	94		11	100		75-125	10		35
General Chemistry - Westborough Lab Associated sample(s): 33,36,39,42,44 QC Batch ID: WG1112367-4 WG1112367-5 QC Sample: L1815750-33 Client ID: TP-18B_COMP												
Cyanide, Total	ND	10	9.5	91		10	94		75-125	5		35
General Chemistry - Westborough Lab Associated sample(s): 03,06,09,12,15,18,21,24,27,30 QC Batch ID: WG1112451-4 QC Sample: L1815750-21 Client ID: TP-16_COMP												
Chromium, Hexavalent	ND	922	895	97		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 33,36,39,42,44 QC Batch ID: WG1112452-4 QC Sample: L1815750-33 Client ID: TP-18B_COMP												
Chromium, Hexavalent	ND	987	926	94		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 45 QC Batch ID: WG1112600-4 WG1112600-5 QC Sample: L1815701-01 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.183	92		0.201	100		80-120	9		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 45 QC Batch ID: WG1112055-3 QC Sample: L1815750-45 Client ID: FB01						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-20 QC Batch ID: WG1112306-1 QC Sample: L1815750-01 Client ID: TP-11A_GRAB-1						
Solids, Total	85.3	85.0	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 21-40 QC Batch ID: WG1112311-1 QC Sample: L1815750-21 Client ID: TP-16_COMP						
Solids, Total	93.3	92.8	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 41-44 QC Batch ID: WG1112320-1 QC Sample: L1815753-01 Client ID: DUP Sample						
Solids, Total	77.4	81.0	%	5		20
General Chemistry - Westborough Lab Associated sample(s): 03,06,09,12,15,18,21,24,27,30 QC Batch ID: WG1112451-6 QC Sample: L1815750-21 Client ID: TP-16_COMP						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 33,36,39,42,44 QC Batch ID: WG1112452-6 QC Sample: L1815750-33 Client ID: TP-18B_COMP						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent
D	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815750-01A	Vial MeOH preserved	C	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L1815750-01B	Vial water preserved	C	NA		3.0	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-01C	Vial water preserved	C	NA		3.0	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-01D	Plastic 2oz unpreserved for TS	C	NA		3.0	Y	Absent		TS(7)
L1815750-02A	Vial MeOH preserved	C	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L1815750-02B	Vial water preserved	C	NA		3.0	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-02C	Vial water preserved	C	NA		3.0	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-02D	Plastic 2oz unpreserved for TS	C	NA		3.0	Y	Absent		TS(7)
L1815750-03A	Plastic 2oz unpreserved for TS	C	NA		3.0	Y	Absent		TS(7)
L1815750-03B	Metals Only-Glass 60mL/2oz unpreserved	C	NA		3.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815750-03C	Glass 120ml/4oz unpreserved	C	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-03D	Glass 500ml/16oz unpreserved	C	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-04A	Vial MeOH preserved	A	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1815750-04B	Vial water preserved	A	NA		2.6	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-04C	Vial water preserved	A	NA		2.6	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-04D	Plastic 2oz unpreserved for TS	A	NA		2.6	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815750-05A	Vial MeOH preserved	A	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1815750-05B	Vial water preserved	A	NA		2.6	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-05C	Vial water preserved	A	NA		2.6	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-05D	Plastic 2oz unpreserved for TS	A	NA		2.6	Y	Absent		TS(7)
L1815750-06A	Plastic 2oz unpreserved for TS	C	NA		3.0	Y	Absent		TS(7)
L1815750-06B	Metals Only-Glass 60mL/2oz unpreserved	C	NA		3.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815750-06C	Glass 120ml/4oz unpreserved	C	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-06D	Glass 500ml/16oz unpreserved	C	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-07A	Vial MeOH preserved	A	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1815750-07B	Vial water preserved	A	NA		2.6	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-07C	Vial water preserved	A	NA		2.6	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-07D	Plastic 2oz unpreserved for TS	A	NA		2.6	Y	Absent		TS(7)
L1815750-08A	Vial MeOH preserved	A	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1815750-08B	Vial water preserved	A	NA		2.6	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-08C	Vial water preserved	A	NA		2.6	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-08D	Plastic 2oz unpreserved for TS	A	NA		2.6	Y	Absent		TS(7)
L1815750-09A	Plastic 2oz unpreserved for TS	C	NA		3.0	Y	Absent		TS(7)
L1815750-09B	Metals Only-Glass 60mL/2oz unpreserved	C	NA		3.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815750-09C	Glass 120ml/4oz unpreserved	C	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-09D	Glass 500ml/16oz unpreserved	C	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815750-10A	Vial MeOH preserved	C	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L1815750-10B	Vial water preserved	C	NA		3.0	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-10C	Vial water preserved	C	NA		3.0	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-10D	Plastic 2oz unpreserved for TS	C	NA		3.0	Y	Absent		TS(7)
L1815750-11A	Vial MeOH preserved	C	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L1815750-11B	Vial water preserved	C	NA		3.0	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-11C	Vial water preserved	C	NA		3.0	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-11D	Plastic 2oz unpreserved for TS	C	NA		3.0	Y	Absent		TS(7)
L1815750-12A	Plastic 2oz unpreserved for TS	C	NA		3.0	Y	Absent		TS(7)
L1815750-12B	Metals Only-Glass 60mL/2oz unpreserved	C	NA		3.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815750-12C	Glass 120ml/4oz unpreserved	C	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-12D	Glass 500ml/16oz unpreserved	C	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-13A	Vial MeOH preserved	A	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1815750-13B	Vial water preserved	A	NA		2.6	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-13C	Vial water preserved	A	NA		2.6	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-13D	Plastic 2oz unpreserved for TS	A	NA		2.6	Y	Absent		TS(7)
L1815750-14A	Vial MeOH preserved	A	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1815750-14B	Vial water preserved	A	NA		2.6	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-14C	Vial water preserved	A	NA		2.6	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-14D	Plastic 2oz unpreserved for TS	A	NA		2.6	Y	Absent		TS(7)
L1815750-15A	Plastic 2oz unpreserved for TS	C	NA		3.0	Y	Absent		TS(7)
L1815750-15B	Metals Only-Glass 60mL/2oz unpreserved	C	NA		3.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

*Values in parentheses indicate holding time in days

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815750-15C	Glass 120ml/4oz unpreserved	C	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-15D	Glass 500ml/16oz unpreserved	C	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-16A	Vial MeOH preserved	C	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L1815750-16B	Vial water preserved	C	NA		3.0	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-16C	Vial water preserved	C	NA		3.0	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-16D	Plastic 2oz unpreserved for TS	C	NA		3.0	Y	Absent		TS(7)
L1815750-17A	Vial MeOH preserved	C	NA		3.0	Y	Absent		NYTCL-8260HLW(14)
L1815750-17B	Vial water preserved	C	NA		3.0	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-17C	Vial water preserved	C	NA		3.0	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-17D	Plastic 2oz unpreserved for TS	C	NA		3.0	Y	Absent		TS(7)
L1815750-18A	Plastic 2oz unpreserved for TS	C	NA		3.0	Y	Absent		TS(7)
L1815750-18B	Metals Only-Glass 60mL/2oz unpreserved	C	NA		3.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815750-18C	Glass 120ml/4oz unpreserved	C	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-18D	Glass 500ml/16oz unpreserved	C	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-19A	Vial MeOH preserved	A	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1815750-19B	Vial water preserved	A	NA		2.6	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-19C	Vial water preserved	A	NA		2.6	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-19D	Plastic 2oz unpreserved for TS	A	NA		2.6	Y	Absent		TS(7)
L1815750-20A	Vial MeOH preserved	A	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1815750-20B	Vial water preserved	A	NA		2.6	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-20C	Vial water preserved	A	NA		2.6	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-20D	Plastic 2oz unpreserved for TS	A	NA		2.6	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815750-21A	Plastic 2oz unpreserved for TS	A	NA		2.6	Y	Absent		TS(7)
L1815750-21B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.6	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815750-21C	Glass 120ml/4oz unpreserved	A	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-21D	Glass 500ml/16oz unpreserved	A	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-21E	Glass 250ml unpreserved split	A	NA		2.6	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-22A	Vial MeOH preserved	D	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1815750-22B	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-22C	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-22D	Plastic 2oz unpreserved for TS	D	NA		4.7	Y	Absent		TS(7)
L1815750-23A	Vial MeOH preserved	D	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1815750-23B	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-23C	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-23D	Plastic 2oz unpreserved for TS	D	NA		4.7	Y	Absent		TS(7)
L1815750-24A	Plastic 2oz unpreserved for TS	D	NA		4.7	Y	Absent		TS(7)
L1815750-24B	Metals Only-Glass 60mL/2oz unpreserved	D	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815750-24C	Glass 120ml/4oz unpreserved	D	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-24D	Glass 500ml/16oz unpreserved	D	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-25A	Vial MeOH preserved	D	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1815750-25B	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815750-25C	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-25D	Plastic 2oz unpreserved for TS	D	NA		4.7	Y	Absent		TS(7)
L1815750-26A	Vial MeOH preserved	D	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1815750-26B	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-26C	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-26D	Plastic 2oz unpreserved for TS	D	NA		4.7	Y	Absent		TS(7)
L1815750-27A	Plastic 2oz unpreserved for TS	D	NA		4.7	Y	Absent		TS(7)
L1815750-27B	Metals Only-Glass 60mL/2oz unpreserved	D	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815750-27C	Glass 120ml/4oz unpreserved	D	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-27D	Glass 500ml/16oz unpreserved	D	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-28A	Vial MeOH preserved	D	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1815750-28B	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-28C	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 03:00	NYTCL-8260HLW(14)
L1815750-28D	Plastic 2oz unpreserved for TS	D	NA		4.7	Y	Absent		TS(7)
L1815750-29A	Vial MeOH preserved	D	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1815750-29B	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 02:58	NYTCL-8260HLW(14)
L1815750-29C	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 02:58	NYTCL-8260HLW(14)
L1815750-29D	Plastic 2oz unpreserved for TS	D	NA		4.7	Y	Absent		TS(7)
L1815750-30A	Plastic 2oz unpreserved for TS	D	NA		4.7	Y	Absent		TS(7)
L1815750-30B	Metals Only-Glass 60mL/2oz unpreserved	D	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815750-30C	Glass 120ml/4oz unpreserved	D	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815750-30D	Glass 500ml/16oz unpreserved	D	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-31A	Vial MeOH preserved	D	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1815750-31B	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 02:58	NYTCL-8260HLW(14)
L1815750-31C	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 02:58	NYTCL-8260HLW(14)
L1815750-31D	Plastic 2oz unpreserved for TS	D	NA		4.7	Y	Absent		TS(7)
L1815750-32A	Vial MeOH preserved	D	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1815750-32B	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 02:58	NYTCL-8260HLW(14)
L1815750-32C	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 02:58	NYTCL-8260HLW(14)
L1815750-32D	Plastic 2oz unpreserved for TS	D	NA		4.7	Y	Absent		TS(7)
L1815750-33A	Plastic 2oz unpreserved for TS	D	NA		4.7	Y	Absent		TS(7)
L1815750-33B	Metals Only-Glass 60mL/2oz unpreserved	D	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815750-33C	Glass 120ml/4oz unpreserved	D	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-33D	Glass 500ml/16oz unpreserved	D	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-34A	Vial MeOH preserved	D	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1815750-34B	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 02:58	NYTCL-8260HLW(14)
L1815750-34C	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 02:58	NYTCL-8260HLW(14)
L1815750-34D	Plastic 2oz unpreserved for TS	D	NA		4.7	Y	Absent		TS(7)
L1815750-35A	Vial MeOH preserved	D	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1815750-35B	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 02:58	NYTCL-8260HLW(14)
L1815750-35C	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 02:58	NYTCL-8260HLW(14)
L1815750-35D	Plastic 2oz unpreserved for TS	D	NA		4.7	Y	Absent		TS(7)
L1815750-36A	Plastic 2oz unpreserved for TS	D	NA		4.7	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815750-36B	Metals Only-Glass 60mL/2oz unpreserved	D	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815750-36C	Glass 120ml/4oz unpreserved	D	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-36D	Glass 500ml/16oz unpreserved	D	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-37A	Vial MeOH preserved	D	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1815750-37B	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 02:58	NYTCL-8260HLW(14)
L1815750-37C	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 02:58	NYTCL-8260HLW(14)
L1815750-37D	Plastic 2oz unpreserved for TS	D	NA		4.7	Y	Absent		TS(7)
L1815750-38A	Vial MeOH preserved	D	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1815750-38B	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 02:58	NYTCL-8260HLW(14)
L1815750-38C	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 02:58	NYTCL-8260HLW(14)
L1815750-38D	Plastic 2oz unpreserved for TS	D	NA		4.7	Y	Absent		TS(7)
L1815750-39A	Plastic 2oz unpreserved for TS	D	NA		4.7	Y	Absent		TS(7)
L1815750-39B	Metals Only-Glass 60mL/2oz unpreserved	D	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815750-39C	Glass 120ml/4oz unpreserved	D	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-39D	Glass 500ml/16oz unpreserved	D	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-40A	Vial MeOH preserved	D	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1815750-40B	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 02:58	NYTCL-8260HLW(14)
L1815750-40C	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 02:58	NYTCL-8260HLW(14)
L1815750-40D	Plastic 2oz unpreserved for TS	D	NA		4.7	Y	Absent		TS(7)
L1815750-41A	Vial MeOH preserved	D	NA		4.7	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815750-41B	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 02:58	NYTCL-8260HLW(14)
L1815750-41C	Vial water preserved	D	NA		4.7	Y	Absent	03-MAY-18 02:58	NYTCL-8260HLW(14)
L1815750-41D	Plastic 2oz unpreserved for TS	D	NA		4.7	Y	Absent		TS(7)
L1815750-42A	Plastic 2oz unpreserved for TS	D	NA		4.7	Y	Absent		TS(7)
L1815750-42B	Metals Only-Glass 60mL/2oz unpreserved	D	NA		4.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815750-42C	Glass 120ml/4oz unpreserved	D	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-42D	Glass 500ml/16oz unpreserved	D	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-43A	Vial MeOH preserved	A	NA		2.6	Y	Absent		NYTCL-8260HLW(14)
L1815750-43B	Vial water preserved	A	NA		2.6	Y	Absent	03-MAY-18 02:58	NYTCL-8260HLW(14)
L1815750-43C	Vial water preserved	A	NA		2.6	Y	Absent	03-MAY-18 02:58	NYTCL-8260HLW(14)
L1815750-43D	Plastic 2oz unpreserved for TS	A	NA		2.6	Y	Absent		TS(7)
L1815750-44A	Plastic 2oz unpreserved for TS	C	NA		3.0	Y	Absent		TS(7)
L1815750-44B	Metals Only-Glass 60mL/2oz unpreserved	C	NA		3.0	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815750-44C	Glass 120ml/4oz unpreserved	C	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-44D	Glass 500ml/16oz unpreserved	C	NA		3.0	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1815750-45A	Vial HCl preserved	B	NA		4.4	Y	Absent		NYTCL-8260(14)
L1815750-45B	Vial HCl preserved	B	NA		4.4	Y	Absent		NYTCL-8260(14)
L1815750-45C	Vial HCl preserved	B	NA		4.4	Y	Absent		NYTCL-8260(14)
L1815750-45D	Plastic 250ml unpreserved	B	7	7	4.4	Y	Absent		HEXCR-7196(1)
L1815750-45E	Plastic 250ml NaOH preserved	B	>12	>12	4.4	Y	Absent		TCN-9010(14)

*Values in parentheses indicate holding time in days

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815750
Report Date: 05/09/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815750-45F	Plastic 250ml HNO3 preserved	B	<2	<2	4.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815750-45G	Amber 120ml unpreserved	B	7	7	4.4	Y	Absent		NYTCL-8081(7)
L1815750-45H	Amber 120ml unpreserved	B	7	7	4.4	Y	Absent		NYTCL-8081(7)
L1815750-45I	Amber 1000ml unpreserved	B	7	7	4.4	Y	Absent		NYTCL-8270(7)
L1815750-45J	Amber 1000ml unpreserved	B	7	7	4.4	Y	Absent		NYTCL-8270(7)
L1815750-45K	Amber 1000ml unpreserved	B	7	7	4.4	Y	Absent		HERB-APA(7)
L1815750-45L	Amber 1000ml unpreserved	B	7	7	4.4	Y	Absent		HERB-APA(7)
L1815750-45M	Amber 1000ml unpreserved	B	7	7	4.4	Y	Absent		NYTCL-8082-1200ML(7)
L1815750-45N	Amber 1000ml unpreserved	B	7	7	4.4	Y	Absent		NYTCL-8082-1200ML(7)

*Values in parentheses indicate holding time in days

Project Name:	FORMER BICC	**Lab Number:**	L1815750
Project Number:	056970006	**Report Date:**	05/09/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER BICC	**Lab Number:**	L1815750
Project Number:	056970006	**Report Date:**	05/09/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815750
Report Date: 05/09/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193
Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 5

Date Rec'd in Lab: 5/2/18

ALPHA Job #: L1815750

Client Information
Client: PSBS Engineering, Inc
Address: 1 Larkin Plaza 2nd Floor, Yonkers, NY 10701
Phone: 914 509 8600
Fax:
Email: scaporizzo@psands.com

Project Information
Project Name: Former BICC
Project Location: Yonkers, NY
Project #: 05697000b
(Use Project name as Project #): ☐
Project Manager: Scott Caporizzo (203-252-4015)
ALPHAQuote #:

Turn-Around Time
Standard: ☒ Due Date:
Rush (only if pre approved): ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☒ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☒ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TS-SM 2540	NYTCL-8260	Metals 6010/7470	Hex Cr EPA 7196	Pests/Herbs/TCN	PCB, Tri Cr	NYTCL-8270	Sample Specific Comments	Total Bottles
L1815750 -01	TP-11A_Grab-1	5/2/18	0725	Soil	ES	X	X							4
-02	TP-11A_Grab-2		0730			X	X							
-03	TP-11A_Comp		0755			X		X	X	X	X	X		
-04	TP-11B_Grab-1		0735			X	X							
-05	TP-11B_Grab-2		0740			X	X							
-06	TP-11B_Comp		0800			X		X	X	X	X	X		
-07	TP-13A_Grab-1		0825			X	X							
-08	TP-13A_Grab-2		0830			X	X							
-09	TP-13A_Comp		0855			X		X	X	X	X	X		
-10	TP-13B_Grab-1	↓	0835	↓	↓	X	X							↓
Container Type						P	V	A	A	A	A	A		
Preservative						A	1-F 3-11300	A	A	A	A	A		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	5/2/18 1530	AAL	5/2/18 1530
	5/2/18 1850	Daniel Santos AAL	5/2/18 1850
Daniel Santos AAL	5/2/18 2320		5/2/18 2320

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

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Date Rec'd in Lab: 5/2/18

ALPHA Job #: L1815750

Client Information
Client: PS&S Engineering, Inc
Address: 1 Larkin Plaza 2nd Floor, Yonkers, NY 10701
Phone: 914 509 8600
Fax:
Email: scaporizzo@psands.com

Project Information
Project Name: Former BICC
Project Location: Yonkers, NY
Project #: 056970006
(Use Project name as Project #)
Project Manager: Scott Caporizzo (203-252-4015)
ALPHAQuote #:

Turn-Around Time
Standard: X
Rush (only if pre approved):
Due Date:
# of Days:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

Deliverables
- ASP-A
- X ASP-B
- EQuIS (1 File)
- EQuIS (4 File)
- Other

Regulatory Requirement
- NY TOGS
- X NY Part 375
- AWQ Standards
- NY CP-51
- X NY Restricted Use
- Other
- NY Unrestricted Use
- NYC Sewer Discharge

Billing Information
- Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
- NJ
- NY
- Other:

Sample Filtration
- Done
- Lab to do

Preservation
- Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TS-SM 2540	NYTCL-8260	8260 + MTBE	MeHg 1631	6010 Cr EPA 7196	PesTs/Herb/TCN	PCB, TICs	NYTCL-8270	Sample Specific Comments
15750-11	TP-13B_Grab-2	5/2/18	0840	Soil	ES	X	X							
-12	TP-13B_Comp		0900			X		X	X	X	X	X		
-13	TP-15A-Grab-1		0920			X	X							
-14	TP-15A-Grab-2		0925			X	X							
-15	TP-15A_Comp		0950			X		X	X	X	X	X		
-16	TP-15B_Grab-1		0935			X	X							
-17	TP-15B-Grab-2		0940			X	X							
-18	TP-15B-Comp		0955			X		X	X	X	X	X		
-19	TP-16_Grab-1		1020			X	X							
-20	TP-16_Grab-2		1025			X	X							

Container Type: P | V | A | A | A | A | A
Preservative: A | i-F 2-H2O | A | A | A | A | A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	5/2/18 1530	[signature] AAL	5/2/18 1530
[signature]	5/2/18 1830	David Santos AAL	5/2/18 1830
David Santos AAL	5/2/18 2320	[signature]	5/2/18 2320

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 3 of 5

Date Rec'd in Lab: 5/2/18

ALPHA Job # L1815791

Client Information

Client: PS&S Engineering, Inc
Address: 1 Larkin Plaza 2nd Floor
Yonkers, NY 10701
Phone: 914 509 8800
Fax:
Email: SCapuzzo@PSandS.com

Project Information

Project Name: Former BJCC
Project Location: Yonkers, NY
Project #: 05097 0006
(Use Project name as Project #)
Project Manager: Scott Capuzzo (203-352-4015)
ALPHAQuote #:

Turn-Around Time

Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

Deliverables

[ ] ASP-A [X] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Regulatory Requirement

[ ] NY TOGS [X] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[X] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Billing Information

[ ] Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other

[ ] These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

TS-SM2540G | NYTCL-8260 | Metals 6020/7196 | Hex Cr EPA 7196 | PCBs/Herbs/TCN | PCB, Tr. Cr | NY TCL-8270

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

Total # Bottles

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TS	NYTCL-8260	Metals	Hex Cr	PCBs/Herbs/TCN	PCB, Tr. Cr	NY TCL-8270	Sample Specific Comments
15290-21	TP-16_Comp	5/2/18	1035	Soil	ES	X		X	X	X	X	X	4
-22	TP-17A_Grab-1		1125			X	X						
-23	TP-17A_Grab-2		1136			X	X						
-24	TP-17A_Comp		1150			X		X	X	X	X	X	
-25	TP-17B_Grab-1		1135			X	X						
-26	TP-17B_Grab-2		1140			X	X						
-27	TP-17B_Comp		1155			X		X	X	X	X	X	
-28	TP-18A_Grab-1		1215			X	X						
-29	TP-18A_Grab-2		1220			X	X						
-30	TP-18A_Comp	V	1245	V	V	X		X	X	X	X	X	V
	Container Type					P	V	A	A	A	A	A	
	Preservative					A	1-F 2-H2	A	A	A	A	A	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	5/2/18 1530	AAL	5/2/18 1530
	5/2/18 1830	David Santos AAL	5/2/18 1850
David Santos AAL	5/2/18 2320		5/2/18 2320

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Form No: 01-25 HC (rev. 30-Sept-2013)

ALPHA

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 4 of 5

Date Rec'd in Lab: 5/2/18

ALPHA Job #: L1815750

Client Information

Client: PS&S Engineering, Inc
Address: 1 Larkin Plaza 2nd Floor Yonkers, NY 10701
Phone: 914 509 8800
Fax:
Email: slaporizzo@pssnj.com

Project Information

Project Name: Former BICC
Project Location: Yonkers, NY
Project #: 05697.0006
(Use Project name as Project #)
Project Manager: Scott Caporizzo (203-252-4015)
ALPHAQuote #:

Turn-Around Time

Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

Deliverables

[ ] ASP-A [X] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Regulatory Requirement

[ ] NY TOGS [X] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[X] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Billing Information

[ ] Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

[ ] These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

TS - SM 2540
NYTCL - 8260
Metals 6010/7470
TCLP EPA 1311
PCBs/Herb/TCN
PCB, TCL
NYTCL - 8270

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TS	NYTCL-8260	Metals	TCLP	PCBs/Herb/TCN	PCB, TCL	NYTCL-8270	Sample Specific Comments
L1815750-31	TP-18B_Grab-1	5/2/18	1230	Soil	ES	X	X						
-32	TP-18B_Grab-2		1235			X	X						
-33	TP-18B_COMP		1250			X		X	X	X	X	X	
-34	TP-19A_Grab-1		1330			X	X						
-35	TP-19A_Grab-2		1335			X	X						
-36	TP-19A_COMP		1355			X		X	X	X	X	X	
-37	TP-19B_Grab-1		1340			X	X						
-38	TP-19B_Grab-2		1345			X	X						
-39	TP-19B_COMP		1400			X		X	X	X	X	X	
-40	TP-21_Grab-1	↓	1415	↓	↓	X	X	X	X	X	X	X	

Container Type: P | V | A | A | A | A | A | B
Preservative: A | 1-F 2-H | A | A | A | A | A | B

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	5/2/18 1530		5/2/18 1530
	5/2/18 1830	Daniel Santos AAC	5/2/18 1850
Daniel Santos AAC	5/2/18 2320		5/2/18 2320

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 5 of 5

Date Rec'd in Lab: 5/2/18

ALPHA Job # L1815750

Client Information
Client: PS&S Engineering, Inc.
Address: 1 Larkin Plaza 2nd Floor Yonkers, NY 10701
Phone: 914 509 8600
Fax:
Email: Scaporizzo@psands.com

Project Information
Project Name: Former BICC
Project Location: Yonkers, NY
Project # 056970006
(Use Project name as Project #) ☐
Project Manager: Scott Caporizzo (203-352-4015)
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☒ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☒ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TS-SM2540G	NYTCL-8260	Metals 6020/1ab	Hex Cr EPA 7196	PCBs/1260/TCN	PCB, Tri Cr	NYTCL-8270	Sample Specific Comments
15750-41	TP-21-Grab-2	05/02/18	1430	Soil	ES	X	X						
-42	TP-21-Comp		1430			X		X	X	X	X	X	
-43	TP-X-050218-G		—			X	X						
-44	TP-X-050218-C		—			X		X	X	X	X	X	
-45	FB01	05/02/18	1515	Water	ES		X	X	X	X	X	X	
	FB01 Container						V	P	P	A	A	A	
	FB01 Preservative						B	C	A	A	A	A	

TOTAL BOTTLES: 14

Container Type	P	V	A	A	A	A	A
Preservative	A	1-F 2-H	A	A	A	A	A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	5/2/18 1530	[signature] AAL	5/2/18 1530
[signature]	5/2/18 1830	Daniel Santos AAL	5/2/18 1830
Daniel Santos AAL	5/2/18 2320	[signature]	5/2/18 23:20

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Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L1815928
Client:	PS&S Engineering, Inc. 1 Larkin Plaza Second Floor Yonkers, NY 10701
ATTN:	Scott Caporizzo
Phone:	(914) 266-3722
Project Name:	FORMER BICC
Project Number:	056970006
Report Date:	05/10/18

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1815928-01	TP-23_GRAB-1	SOIL	YONKERS, NY	05/03/18 07:30	05/03/18
L1815928-02	TP-23_GRAB-2	SOIL	YONKERS, NY	05/03/18 07:35	05/03/18
L1815928-03	TP-23_COMP	SOIL	YONKERS, NY	05/03/18 07:40	05/03/18
L1815928-04	TP-24_GRAB-1	SOIL	YONKERS, NY	05/03/18 08:00	05/03/18
L1815928-05	TP-24_GRAB-2	SOIL	YONKERS, NY	05/03/18 08:05	05/03/18
L1815928-06	TP-24_COMP	SOIL	YONKERS, NY	05/03/18 08:15	05/03/18
L1815928-07	TP-25_GRAB-1	SOIL	YONKERS, NY	05/03/18 09:50	05/03/18
L1815928-08	TP-25_GRAB-2	SOIL	YONKERS, NY	05/03/18 09:55	05/03/18
L1815928-09	TP-25_COMP	SOIL	YONKERS, NY	05/03/18 10:00	05/03/18
L1815928-10	TP-26_GRAB-1	SOIL	YONKERS, NY	05/03/18 08:35	05/03/18
L1815928-11	TP-26_GRAB-2	SOIL	YONKERS, NY	05/03/18 08:40	05/03/18
L1815928-12	TP-26_COMP	SOIL	YONKERS, NY	05/03/18 08:45	05/03/18
L1815928-13	TP-27_GRAB-1	SOIL	YONKERS, NY	05/03/18 10:50	05/03/18
L1815928-14	TP-27_GRAB-2	SOIL	YONKERS, NY	05/03/18 10:55	05/03/18
L1815928-15	TP-27_COMP	SOIL	YONKERS, NY	05/03/18 11:00	05/03/18
L1815928-16	TP-29_GRAB-1	SOIL	YONKERS, NY	05/03/18 11:35	05/03/18
L1815928-17	TP-29_GRAB-2	SOIL	YONKERS, NY	05/03/18 11:40	05/03/18
L1815928-18	TP-29_COMP	SOIL	YONKERS, NY	05/03/18 11:45	05/03/18
L1815928-19	TB-05032018	WATER	YONKERS, NY	05/03/18 00:00	05/03/18

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Total Metals

L1815928-03, -06, -09, -12, -15 and -18: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1113817-3 MS recoveries for aluminum (1120%), iron (3880%), magnesium (179%), and potassium (198%), performed on L1815928-03, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1113817-3 MS recoveries, performed on L1815928-03, are outside the acceptance criteria for calcium (215%), copper (139%), manganese (196%), and thallium (72%). A post digestion spike was performed and was within acceptance criteria.

The WG1113817-4 Laboratory Duplicate RPDs for cobalt (24%), iron (24%) and nickel (26%), performed on L1815928-03, are outside the acceptance criteria. The elevated RPDs have been attributed to the non-homogeneous nature of the native sample.

Cyanide, Total

The WG1112689-2 LCS recovery (51%), associated with L1815928-03, -06, -09, -12, -15 and -18, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1112689-2/-3 LCS/LCSD RPD (50%), associated with L1815928-03, -06, -09, -12, -15 and -18, are above the acceptance criteria.

Hexavalent Chromium

The WG1112867-2 LCS recovery (76%), associated with L1815928-03, -06, -09, -12, -15 and -18, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Melissa Cripps

Title: Technical Director/Representative Date: 05/10/18

ORGANICS

VOLATILES

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-01
Client ID: TP-23_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/03/18 07:30
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/08/18 20:33
Analyst: MV
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.1	1.5	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.24	1
Chloroform	ND		ug/kg	1.4	0.34	1
Carbon tetrachloride	ND		ug/kg	0.91	0.31	1
1,2-Dichloropropane	ND		ug/kg	3.2	0.21	1
Dibromochloromethane	ND		ug/kg	0.91	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.28	1
Tetrachloroethene	ND		ug/kg	0.91	0.27	1
Chlorobenzene	ND		ug/kg	0.91	0.32	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.38	1
1,2-Dichloroethane	ND		ug/kg	0.91	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.91	0.32	1
Bromodichloromethane	ND		ug/kg	0.91	0.28	1
trans-1,3-Dichloropropene	ND		ug/kg	0.91	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	0.91	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.91	0.19	1
1,1-Dichloropropene	ND		ug/kg	4.5	0.30	1
Bromoform	ND		ug/kg	3.6	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.91	0.27	1
Benzene	ND		ug/kg	0.91	0.18	1
Toluene	ND		ug/kg	1.4	0.18	1
Ethylbenzene	ND		ug/kg	0.91	0.15	1
Chloromethane	ND		ug/kg	4.5	0.40	1
Bromomethane	ND		ug/kg	1.8	0.31	1
Vinyl chloride	ND		ug/kg	1.8	0.28	1
Chloroethane	ND		ug/kg	1.8	0.29	1
1,1-Dichloroethene	ND		ug/kg	0.91	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.22	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-01
Client ID: TP-23_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/03/18 07:30
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.91	0.27	1
1,2-Dichlorobenzene	ND		ug/kg	4.5	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	4.5	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	4.5	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.14	1
p/m-Xylene	ND		ug/kg	1.8	0.32	1
o-Xylene	ND		ug/kg	1.8	0.31	1
Xylenes, Total	ND		ug/kg	1.8	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	0.91	0.31	1
1,2-Dichloroethene, Total	ND		ug/kg	0.91	0.22	1
Dibromomethane	ND		ug/kg	9.1	0.22	1
Styrene	ND		ug/kg	1.8	0.36	1
Dichlorodifluoromethane	ND		ug/kg	9.1	0.45	1
Acetone	4.6	J	ug/kg	9.1	2.1	1
Carbon disulfide	ND		ug/kg	9.1	1.0	1
2-Butanone	ND		ug/kg	9.1	0.63	1
Vinyl acetate	ND		ug/kg	9.1	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	9.1	0.22	1
1,2,3-Trichloropropane	ND		ug/kg	9.1	0.16	1
2-Hexanone	ND		ug/kg	9.1	0.60	1
Bromochloromethane	ND		ug/kg	4.5	0.32	1
2,2-Dichloropropane	ND		ug/kg	4.5	0.41	1
1,2-Dibromoethane	ND		ug/kg	3.6	0.18	1
1,3-Dichloropropane	ND		ug/kg	4.5	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.91	0.29	1
Bromobenzene	ND		ug/kg	4.5	0.20	1
n-Butylbenzene	ND		ug/kg	0.91	0.21	1
sec-Butylbenzene	ND		ug/kg	0.91	0.20	1
tert-Butylbenzene	ND		ug/kg	4.5	0.22	1
o-Chlorotoluene	ND		ug/kg	4.5	0.20	1
p-Chlorotoluene	ND		ug/kg	4.5	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.5	0.36	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.32	1
Isopropylbenzene	ND		ug/kg	0.91	0.18	1
p-Isopropyltoluene	ND		ug/kg	0.91	0.18	1
Naphthalene	ND		ug/kg	4.5	0.12	1
Acrylonitrile	ND		ug/kg	9.1	0.47	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-01
Client ID: TP-23_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/03/18 07:30
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.91	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.5	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.5	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.5	0.15	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.5	0.17	1
1,4-Dioxane	ND		ug/kg	36	13.	1
p-Diethylbenzene	ND		ug/kg	3.6	3.6	1
p-Ethyltoluene	ND		ug/kg	3.6	0.21	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.6	0.14	1
Ethyl ether	ND		ug/kg	4.5	0.24	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.5	0.36	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	99		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-02
Client ID: TP-23_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/03/18 07:35
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/09/18 10:46
Analyst: JC
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10	1.7	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.27	1
Chloroform	ND		ug/kg	1.5	0.38	1
Carbon tetrachloride	ND		ug/kg	1.0	0.35	1
1,2-Dichloropropane	ND		ug/kg	3.6	0.23	1
Dibromochloromethane	ND		ug/kg	1.0	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.32	1
Tetrachloroethene	ND		ug/kg	1.0	0.31	1
Chlorobenzene	ND		ug/kg	1.0	0.35	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.42	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.36	1
Bromodichloromethane	ND		ug/kg	1.0	0.31	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21	1
1,1-Dichloropropene	ND		ug/kg	5.1	0.33	1
Bromoform	ND		ug/kg	4.1	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30	1
Benzene	ND		ug/kg	1.0	0.20	1
Toluene	ND		ug/kg	1.5	0.20	1
Ethylbenzene	ND		ug/kg	1.0	0.17	1
Chloromethane	ND		ug/kg	5.1	0.44	1
Bromomethane	ND		ug/kg	2.0	0.34	1
Vinyl chloride	ND		ug/kg	2.0	0.32	1
Chloroethane	ND		ug/kg	2.0	0.32	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.38	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24	1

Project Name: FORMER BICC **Lab Number:** L1815928

Project Number: 056970006 **Report Date:** 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-02 Date Collected: 05/03/18 07:35

Client ID: TP-23_GRAB-2 Date Received: 05/03/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.0	0.31	1
1,2-Dichlorobenzene	ND		ug/kg	5.1	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	5.1	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	5.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.16	1
p/m-Xylene	ND		ug/kg	2.0	0.36	1
o-Xylene	ND		ug/kg	2.0	0.34	1
Xylenes, Total	ND		ug/kg	2.0	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.35	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24	1
Dibromomethane	ND		ug/kg	10	0.24	1
Styrene	ND		ug/kg	2.0	0.41	1
Dichlorodifluoromethane	ND		ug/kg	10	0.51	1
Acetone	3.3	J	ug/kg	10	2.3	1
Carbon disulfide	ND		ug/kg	10	1.1	1
2-Butanone	ND		ug/kg	10	0.70	1
Vinyl acetate	ND		ug/kg	10	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.25	1
1,2,3-Trichloropropane	ND		ug/kg	10	0.18	1
2-Hexanone	ND		ug/kg	10	0.68	1
Bromochloromethane	ND		ug/kg	5.1	0.36	1
2,2-Dichloropropane	ND		ug/kg	5.1	0.46	1
1,2-Dibromoethane	ND		ug/kg	4.1	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.1	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32	1
Bromobenzene	ND		ug/kg	5.1	0.22	1
n-Butylbenzene	ND		ug/kg	1.0	0.23	1
sec-Butylbenzene	ND		ug/kg	1.0	0.22	1
tert-Butylbenzene	ND		ug/kg	5.1	0.25	1
o-Chlorotoluene	ND		ug/kg	5.1	0.22	1
p-Chlorotoluene	ND		ug/kg	5.1	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.1	0.40	1
Hexachlorobutadiene	ND		ug/kg	5.1	0.35	1
Isopropylbenzene	ND		ug/kg	1.0	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.20	1
Naphthalene	ND		ug/kg	5.1	0.14	1
Acrylonitrile	ND		ug/kg	10	0.52	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-02
Client ID: TP-23_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/03/18 07:35
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.1	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.1	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.1	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.1	0.19	1
1,4-Dioxane	ND		ug/kg	41	15.	1
p-Diethylbenzene	ND		ug/kg	4.1	4.1	1
p-Ethyltoluene	ND		ug/kg	4.1	0.24	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.1	0.16	1
Ethyl ether	ND		ug/kg	5.1	0.26	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.1	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	99		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-04
Client ID: TP-24_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/03/18 08:00
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/09/18 11:12
Analyst: JC
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.8	1.6	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.26	1
Chloroform	ND		ug/kg	1.5	0.36	1
Carbon tetrachloride	ND		ug/kg	0.98	0.34	1
1,2-Dichloropropane	ND		ug/kg	3.4	0.22	1
Dibromochloromethane	ND		ug/kg	0.98	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31	1
Tetrachloroethene	ND		ug/kg	0.98	0.30	1
Chlorobenzene	ND		ug/kg	0.98	0.34	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.41	1
1,2-Dichloroethane	ND		ug/kg	0.98	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.98	0.34	1
Bromodichloromethane	ND		ug/kg	0.98	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	0.98	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	0.98	0.23	1
1,3-Dichloropropene, Total	ND		ug/kg	0.98	0.20	1
1,1-Dichloropropene	ND		ug/kg	4.9	0.32	1
Bromoform	ND		ug/kg	3.9	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.98	0.29	1
Benzene	ND		ug/kg	0.98	0.19	1
Toluene	ND		ug/kg	1.5	0.19	1
Ethylbenzene	ND		ug/kg	0.98	0.17	1
Chloromethane	ND		ug/kg	4.9	0.43	1
Bromomethane	ND		ug/kg	2.0	0.33	1
Vinyl chloride	ND		ug/kg	2.0	0.31	1
Chloroethane	ND		ug/kg	2.0	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.98	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-04
Client ID: TP-24_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/03/18 08:00
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.98	0.30	1
1,2-Dichlorobenzene	ND		ug/kg	4.9	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	4.9	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	4.9	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.15	1
p/m-Xylene	ND		ug/kg	2.0	0.34	1
o-Xylene	ND		ug/kg	2.0	0.33	1
Xylenes, Total	ND		ug/kg	2.0	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	0.98	0.33	1
1,2-Dichloroethene, Total	ND		ug/kg	0.98	0.24	1
Dibromomethane	ND		ug/kg	9.8	0.23	1
Styrene	ND		ug/kg	2.0	0.39	1
Dichlorodifluoromethane	ND		ug/kg	9.8	0.49	1
Acetone	11		ug/kg	9.8	2.2	1
Carbon disulfide	ND		ug/kg	9.8	1.1	1
2-Butanone	ND		ug/kg	9.8	0.68	1
Vinyl acetate	ND		ug/kg	9.8	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	9.8	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	9.8	0.17	1
2-Hexanone	ND		ug/kg	9.8	0.65	1
Bromochloromethane	ND		ug/kg	4.9	0.35	1
2,2-Dichloropropane	ND		ug/kg	4.9	0.44	1
1,2-Dibromoethane	ND		ug/kg	3.9	0.19	1
1,3-Dichloropropane	ND		ug/kg	4.9	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.98	0.31	1
Bromobenzene	ND		ug/kg	4.9	0.21	1
n-Butylbenzene	ND		ug/kg	0.98	0.22	1
sec-Butylbenzene	ND		ug/kg	0.98	0.21	1
tert-Butylbenzene	ND		ug/kg	4.9	0.24	1
o-Chlorotoluene	ND		ug/kg	4.9	0.22	1
p-Chlorotoluene	ND		ug/kg	4.9	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.9	0.39	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.34	1
Isopropylbenzene	ND		ug/kg	0.98	0.19	1
p-Isopropyltoluene	ND		ug/kg	0.98	0.20	1
Naphthalene	ND		ug/kg	4.9	0.14	1
Acrylonitrile	ND		ug/kg	9.8	0.50	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-04
Client ID: TP-24_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/03/18 08:00
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.98	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.9	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.9	0.21	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.9	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.9	0.18	1
1,4-Dioxane	ND		ug/kg	39	14.	1
p-Diethylbenzene	ND		ug/kg	3.9	3.9	1
p-Ethyltoluene	ND		ug/kg	3.9	0.23	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.9	0.15	1
Ethyl ether	ND		ug/kg	4.9	0.25	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	0.38	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-05
Client ID: TP-24_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/03/18 08:05
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/09/18 11:39
Analyst: JC
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10	1.7	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.29	1
Chloroform	ND		ug/kg	1.6	0.39	1
Carbon tetrachloride	ND		ug/kg	1.0	0.36	1
1,2-Dichloropropane	ND		ug/kg	3.7	0.24	1
Dibromochloromethane	ND		ug/kg	1.0	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.0	0.32	1
Chlorobenzene	ND		ug/kg	1.0	0.37	1
Trichlorofluoromethane	ND		ug/kg	5.3	0.44	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.37	1
Bromodichloromethane	ND		ug/kg	1.0	0.33	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.22	1
1,1-Dichloropropene	ND		ug/kg	5.3	0.35	1
Bromoform	ND		ug/kg	4.2	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.32	1
Benzene	ND		ug/kg	1.0	0.20	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.0	0.18	1
Chloromethane	ND		ug/kg	5.3	0.46	1
Bromomethane	ND		ug/kg	2.1	0.36	1
Vinyl chloride	ND		ug/kg	2.1	0.33	1
Chloroethane	ND		ug/kg	2.1	0.33	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.39	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.26	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-05
Client ID: TP-24_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/03/18 08:05
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.0	0.32	1
1,2-Dichlorobenzene	ND		ug/kg	5.3	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	5.3	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	5.3	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.16	1
p/m-Xylene	ND		ug/kg	2.1	0.37	1
o-Xylene	ND		ug/kg	2.1	0.36	1
Xylenes, Total	ND		ug/kg	2.1	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.36	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.26	1
Dibromomethane	ND		ug/kg	10	0.25	1
Styrene	ND		ug/kg	2.1	0.42	1
Dichlorodifluoromethane	ND		ug/kg	10	0.53	1
Acetone	9.9	J	ug/kg	10	2.4	1
Carbon disulfide	ND		ug/kg	10	1.2	1
2-Butanone	ND		ug/kg	10	0.73	1
Vinyl acetate	ND		ug/kg	10	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	10	0.19	1
2-Hexanone	ND		ug/kg	10	0.70	1
Bromochloromethane	ND		ug/kg	5.3	0.38	1
2,2-Dichloropropane	ND		ug/kg	5.3	0.48	1
1,2-Dibromoethane	ND		ug/kg	4.2	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.3	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.34	1
Bromobenzene	ND		ug/kg	5.3	0.23	1
n-Butylbenzene	ND		ug/kg	1.0	0.24	1
sec-Butylbenzene	ND		ug/kg	1.0	0.23	1
tert-Butylbenzene	ND		ug/kg	5.3	0.26	1
o-Chlorotoluene	ND		ug/kg	5.3	0.23	1
p-Chlorotoluene	ND		ug/kg	5.3	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.3	0.42	1
Hexachlorobutadiene	ND		ug/kg	5.3	0.37	1
Isopropylbenzene	ND		ug/kg	1.0	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.21	1
Naphthalene	ND		ug/kg	5.3	0.15	1
Acrylonitrile	ND		ug/kg	10	0.54	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-05
Client ID: TP-24_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/03/18 08:05
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.3	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.3	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.3	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.3	0.20	1
1,4-Dioxane	ND		ug/kg	42	15.	1
p-Diethylbenzene	ND		ug/kg	4.2	4.2	1
p-Ethyltoluene	ND		ug/kg	4.2	0.25	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.2	0.16	1
Ethyl ether	ND		ug/kg	5.3	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.3	0.42	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	99		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-07
Client ID: TP-25_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/03/18 09:50
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/09/18 12:05
Analyst: JC
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10	1.6	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.27	1
Chloroform	ND		ug/kg	1.5	0.37	1
Carbon tetrachloride	ND		ug/kg	1.0	0.34	1
1,2-Dichloropropane	ND		ug/kg	3.5	0.23	1
Dibromochloromethane	ND		ug/kg	1.0	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31	1
Tetrachloroethene	ND		ug/kg	1.0	0.30	1
Chlorobenzene	ND		ug/kg	1.0	0.35	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.42	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35	1
Bromodichloromethane	ND		ug/kg	1.0	0.31	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23	1
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21	1
1,1-Dichloropropene	ND		ug/kg	5.0	0.33	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30	1
Benzene	ND		ug/kg	1.0	0.19	1
Toluene	ND		ug/kg	1.5	0.20	1
Ethylbenzene	ND		ug/kg	1.0	0.17	1
Chloromethane	ND		ug/kg	5.0	0.44	1
Bromomethane	ND		ug/kg	2.0	0.34	1
Vinyl chloride	ND		ug/kg	2.0	0.32	1
Chloroethane	ND		ug/kg	2.0	0.32	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-07
Client ID: TP-25_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/03/18 09:50
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.0	0.30	1
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.15	1
p/m-Xylene	ND		ug/kg	2.0	0.35	1
o-Xylene	ND		ug/kg	2.0	0.34	1
Xylenes, Total	ND		ug/kg	2.0	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24	1
Dibromomethane	ND		ug/kg	10	0.24	1
Styrene	ND		ug/kg	2.0	0.40	1
Dichlorodifluoromethane	ND		ug/kg	10	0.50	1
Acetone	ND		ug/kg	10	2.3	1
Carbon disulfide	ND		ug/kg	10	1.1	1
2-Butanone	ND		ug/kg	10	0.69	1
Vinyl acetate	ND		ug/kg	10	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	10	0.18	1
2-Hexanone	ND		ug/kg	10	0.67	1
Bromochloromethane	ND		ug/kg	5.0	0.36	1
2,2-Dichloropropane	ND		ug/kg	5.0	0.45	1
1,2-Dibromoethane	ND		ug/kg	4.0	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.0	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32	1
Bromobenzene	ND		ug/kg	5.0	0.22	1
n-Butylbenzene	ND		ug/kg	1.0	0.23	1
sec-Butylbenzene	ND		ug/kg	1.0	0.22	1
tert-Butylbenzene	ND		ug/kg	5.0	0.25	1
o-Chlorotoluene	ND		ug/kg	5.0	0.22	1
p-Chlorotoluene	ND		ug/kg	5.0	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.35	1
Isopropylbenzene	ND		ug/kg	1.0	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.20	1
Naphthalene	ND		ug/kg	5.0	0.14	1
Acrylonitrile	ND		ug/kg	10	0.52	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-07
Client ID: TP-25_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/03/18 09:50
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19	1
1,4-Dioxane	ND		ug/kg	40	14.	1
p-Diethylbenzene	ND		ug/kg	4.0	4.0	1
p-Ethyltoluene	ND		ug/kg	4.0	0.23	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16	1
Ethyl ether	ND		ug/kg	5.0	0.26	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	100		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-08
Client ID: TP-25_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/03/18 09:55
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/09/18 12:32
Analyst: JC
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.1	1.5	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.24	1
Chloroform	ND		ug/kg	1.4	0.34	1
Carbon tetrachloride	ND		ug/kg	0.91	0.31	1
1,2-Dichloropropane	ND		ug/kg	3.2	0.21	1
Dibromochloromethane	ND		ug/kg	0.91	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.28	1
Tetrachloroethene	ND		ug/kg	0.91	0.27	1
Chlorobenzene	ND		ug/kg	0.91	0.32	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.38	1
1,2-Dichloroethane	ND		ug/kg	0.91	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.91	0.32	1
Bromodichloromethane	ND		ug/kg	0.91	0.28	1
trans-1,3-Dichloropropene	ND		ug/kg	0.91	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	0.91	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.91	0.19	1
1,1-Dichloropropene	ND		ug/kg	4.5	0.30	1
Bromoform	ND		ug/kg	3.6	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.91	0.27	1
Benzene	ND		ug/kg	0.91	0.17	1
Toluene	ND		ug/kg	1.4	0.18	1
Ethylbenzene	ND		ug/kg	0.91	0.15	1
Chloromethane	ND		ug/kg	4.5	0.40	1
Bromomethane	ND		ug/kg	1.8	0.31	1
Vinyl chloride	ND		ug/kg	1.8	0.28	1
Chloroethane	ND		ug/kg	1.8	0.29	1
1,1-Dichloroethene	ND		ug/kg	0.91	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.22	1

Project Name: FORMER BICC **Lab Number:** L1815928

Project Number: 056970006 **Report Date:** 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-08 Date Collected: 05/03/18 09:55

Client ID: TP-25_GRAB-2 Date Received: 05/03/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.91	0.27	1
1,2-Dichlorobenzene	ND		ug/kg	4.5	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	4.5	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	4.5	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.14	1
p/m-Xylene	ND		ug/kg	1.8	0.32	1
o-Xylene	ND		ug/kg	1.8	0.31	1
Xylenes, Total	ND		ug/kg	1.8	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	0.91	0.31	1
1,2-Dichloroethene, Total	ND		ug/kg	0.91	0.22	1
Dibromomethane	ND		ug/kg	9.1	0.22	1
Styrene	ND		ug/kg	1.8	0.36	1
Dichlorodifluoromethane	ND		ug/kg	9.1	0.45	1
Acetone	18		ug/kg	9.1	2.1	1
Carbon disulfide	ND		ug/kg	9.1	1.0	1
2-Butanone	ND		ug/kg	9.1	0.62	1
Vinyl acetate	ND		ug/kg	9.1	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	9.1	0.22	1
1,2,3-Trichloropropane	ND		ug/kg	9.1	0.16	1
2-Hexanone	ND		ug/kg	9.1	0.60	1
Bromochloromethane	ND		ug/kg	4.5	0.32	1
2,2-Dichloropropane	ND		ug/kg	4.5	0.41	1
1,2-Dibromoethane	ND		ug/kg	3.6	0.18	1
1,3-Dichloropropane	ND		ug/kg	4.5	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.91	0.29	1
Bromobenzene	ND		ug/kg	4.5	0.20	1
n-Butylbenzene	ND		ug/kg	0.91	0.21	1
sec-Butylbenzene	ND		ug/kg	0.91	0.20	1
tert-Butylbenzene	ND		ug/kg	4.5	0.22	1
o-Chlorotoluene	ND		ug/kg	4.5	0.20	1
p-Chlorotoluene	ND		ug/kg	4.5	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.5	0.36	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.32	1
Isopropylbenzene	ND		ug/kg	0.91	0.18	1
p-Isopropyltoluene	ND		ug/kg	0.91	0.18	1
Naphthalene	ND		ug/kg	4.5	0.12	1
Acrylonitrile	ND		ug/kg	9.1	0.46	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-08
Client ID: TP-25_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/03/18 09:55
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.91	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.5	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.5	0.19	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.5	0.14	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.5	0.17	1
1,4-Dioxane	ND		ug/kg	36	13.	1
p-Diethylbenzene	ND		ug/kg	3.6	3.6	1
p-Ethyltoluene	ND		ug/kg	3.6	0.21	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.6	0.14	1
Ethyl ether	ND		ug/kg	4.5	0.24	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.5	0.36	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	99		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-10
Client ID: TP-26_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/03/18 08:35
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/09/18 12:58
Analyst: JC
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10	1.7	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.28	1
Chloroform	ND		ug/kg	1.6	0.38	1
Carbon tetrachloride	ND		ug/kg	1.0	0.36	1
1,2-Dichloropropane	ND		ug/kg	3.6	0.24	1
Dibromochloromethane	ND		ug/kg	1.0	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.0	0.31	1
Chlorobenzene	ND		ug/kg	1.0	0.36	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.43	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.36	1
Bromodichloromethane	ND		ug/kg	1.0	0.32	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.22	1
1,1-Dichloropropene	ND		ug/kg	5.2	0.34	1
Bromoform	ND		ug/kg	4.2	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.31	1
Benzene	ND		ug/kg	1.0	0.20	1
Toluene	ND		ug/kg	1.6	0.20	1
Ethylbenzene	ND		ug/kg	1.0	0.18	1
Chloromethane	ND		ug/kg	5.2	0.45	1
Bromomethane	ND		ug/kg	2.1	0.35	1
Vinyl chloride	ND		ug/kg	2.1	0.33	1
Chloroethane	ND		ug/kg	2.1	0.33	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.39	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.25	1

Project Name: FORMER BICC **Lab Number:** L1815928

Project Number: 056970006 **Report Date:** 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-10 Date Collected: 05/03/18 08:35

Client ID: TP-26_GRAB-1 Date Received: 05/03/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.0	0.31	1
1,2-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	5.2	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.16	1
p/m-Xylene	ND		ug/kg	2.1	0.37	1
o-Xylene	ND		ug/kg	2.1	0.35	1
Xylenes, Total	ND		ug/kg	2.1	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.36	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.25	1
Dibromomethane	ND		ug/kg	10	0.25	1
Styrene	ND		ug/kg	2.1	0.42	1
Dichlorodifluoromethane	ND		ug/kg	10	0.52	1
Acetone	6.4	J	ug/kg	10	2.4	1
Carbon disulfide	ND		ug/kg	10	1.1	1
2-Butanone	ND		ug/kg	10	0.72	1
Vinyl acetate	ND		ug/kg	10	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.25	1
1,2,3-Trichloropropane	ND		ug/kg	10	0.18	1
2-Hexanone	ND		ug/kg	10	0.69	1
Bromochloromethane	ND		ug/kg	5.2	0.37	1
2,2-Dichloropropane	ND		ug/kg	5.2	0.47	1
1,2-Dibromoethane	ND		ug/kg	4.2	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.33	1
Bromobenzene	ND		ug/kg	5.2	0.23	1
n-Butylbenzene	ND		ug/kg	1.0	0.24	1
sec-Butylbenzene	ND		ug/kg	1.0	0.23	1
tert-Butylbenzene	ND		ug/kg	5.2	0.26	1
o-Chlorotoluene	ND		ug/kg	5.2	0.23	1
p-Chlorotoluene	ND		ug/kg	5.2	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.2	0.41	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.36	1
Isopropylbenzene	ND		ug/kg	1.0	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.21	1
Naphthalene	ND		ug/kg	5.2	0.14	1
Acrylonitrile	ND		ug/kg	10	0.54	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-10
Client ID: TP-26_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/03/18 08:35
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.2	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.2	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.2	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.2	0.19	1
1,4-Dioxane	ND		ug/kg	42	15.	1
p-Diethylbenzene	ND		ug/kg	4.2	4.2	1
p-Ethyltoluene	ND		ug/kg	4.2	0.24	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.2	0.16	1
Ethyl ether	ND		ug/kg	5.2	0.27	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	0.41	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	98		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-11
Client ID: TP-26_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/03/18 08:40
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/09/18 13:24
Analyst: JC
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.29	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.38	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.33	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.45	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.38	1
Bromodichloromethane	ND		ug/kg	1.1	0.34	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.23	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.25	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.23	1
1,1-Dichloropropene	ND		ug/kg	5.4	0.36	1
Bromoform	ND		ug/kg	4.4	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.32	1
Benzene	ND		ug/kg	1.1	0.21	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.18	1
Chloromethane	ND		ug/kg	5.4	0.47	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.34	1
Chloroethane	ND		ug/kg	2.2	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.40	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.26	1

Project Name: FORMER BICC **Lab Number:** L1815928

Project Number: 056970006 **Report Date:** 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-11 Date Collected: 05/03/18 08:40

Client ID: TP-26_GRAB-2 Date Received: 05/03/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.1	0.33	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.4	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.17	1
p/m-Xylene	ND		ug/kg	2.2	0.38	1
o-Xylene	ND		ug/kg	2.2	0.37	1
Xylenes, Total	ND		ug/kg	2.2	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.37	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.26	1
Dibromomethane	ND		ug/kg	11	0.26	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	11	0.54	1
Acetone	12		ug/kg	11	2.5	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.75	1
Vinyl acetate	ND		ug/kg	11	0.17	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.19	1
2-Hexanone	ND		ug/kg	11	0.72	1
Bromochloromethane	ND		ug/kg	5.4	0.39	1
2,2-Dichloropropane	ND		ug/kg	5.4	0.49	1
1,2-Dibromoethane	ND		ug/kg	4.4	0.22	1
1,3-Dichloropropane	ND		ug/kg	5.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.4	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.25	1
sec-Butylbenzene	ND		ug/kg	1.1	0.24	1
tert-Butylbenzene	ND		ug/kg	5.4	0.27	1
o-Chlorotoluene	ND		ug/kg	5.4	0.24	1
p-Chlorotoluene	ND		ug/kg	5.4	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	0.43	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.38	1
Isopropylbenzene	ND		ug/kg	1.1	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	ND		ug/kg	5.4	0.15	1
Acrylonitrile	ND		ug/kg	11	0.56	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-11
Client ID: TP-26_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/03/18 08:40
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	0.18	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	0.20	1
1,4-Dioxane	ND		ug/kg	44	16.	1
p-Diethylbenzene	ND		ug/kg	4.4	4.4	1
p-Ethyltoluene	ND		ug/kg	4.4	0.25	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.17	1
Ethyl ether	ND		ug/kg	5.4	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	0.43	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-13
Client ID: TP-27_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/03/18 10:50
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/09/18 13:51
Analyst: PK
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.5	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.23	1
Chloroform	ND		ug/kg	1.3	0.32	1
Carbon tetrachloride	ND		ug/kg	0.85	0.29	1
1,2-Dichloropropane	ND		ug/kg	3.0	0.19	1
Dibromochloromethane	ND		ug/kg	0.85	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.27	1
Tetrachloroethene	ND		ug/kg	0.85	0.26	1
Chlorobenzene	ND		ug/kg	0.85	0.30	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.36	1
1,2-Dichloroethane	ND		ug/kg	0.85	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	0.85	0.30	1
Bromodichloromethane	ND		ug/kg	0.85	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	0.85	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	0.85	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.85	0.18	1
1,1-Dichloropropene	ND		ug/kg	4.2	0.28	1
Bromoform	ND		ug/kg	3.4	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.85	0.25	1
Benzene	ND		ug/kg	0.85	0.16	1
Toluene	ND		ug/kg	1.3	0.17	1
Ethylbenzene	ND		ug/kg	0.85	0.14	1
Chloromethane	ND		ug/kg	4.2	0.37	1
Bromomethane	ND		ug/kg	1.7	0.29	1
Vinyl chloride	ND		ug/kg	1.7	0.27	1
Chloroethane	ND		ug/kg	1.7	0.27	1
1,1-Dichloroethene	ND		ug/kg	0.85	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.20	1

Project Name: FORMER BICC **Lab Number:** L1815928

Project Number: 056970006 **Report Date:** 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-13 Date Collected: 05/03/18 10:50

Client ID: TP-27_GRAB-1 Date Received: 05/03/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.85	0.26	1
1,2-Dichlorobenzene	ND		ug/kg	4.2	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	4.2	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	4.2	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.13	1
p/m-Xylene	ND		ug/kg	1.7	0.30	1
o-Xylene	ND		ug/kg	1.7	0.29	1
Xylenes, Total	ND		ug/kg	1.7	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.85	0.29	1
1,2-Dichloroethene, Total	ND		ug/kg	0.85	0.20	1
Dibromomethane	ND		ug/kg	8.5	0.20	1
Styrene	ND		ug/kg	1.7	0.34	1
Dichlorodifluoromethane	ND		ug/kg	8.5	0.42	1
Acetone	6.6	J	ug/kg	8.5	2.0	1
Carbon disulfide	ND		ug/kg	8.5	0.94	1
2-Butanone	ND		ug/kg	8.5	0.59	1
Vinyl acetate	ND		ug/kg	8.5	0.13	1
4-Methyl-2-pentanone	ND		ug/kg	8.5	0.21	1
1,2,3-Trichloropropane	ND		ug/kg	8.5	0.15	1
2-Hexanone	ND		ug/kg	8.5	0.57	1
Bromochloromethane	ND		ug/kg	4.2	0.30	1
2,2-Dichloropropane	ND		ug/kg	4.2	0.38	1
1,2-Dibromoethane	ND		ug/kg	3.4	0.17	1
1,3-Dichloropropane	ND		ug/kg	4.2	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.85	0.27	1
Bromobenzene	ND		ug/kg	4.2	0.19	1
n-Butylbenzene	ND		ug/kg	0.85	0.19	1
sec-Butylbenzene	ND		ug/kg	0.85	0.18	1
tert-Butylbenzene	ND		ug/kg	4.2	0.21	1
o-Chlorotoluene	ND		ug/kg	4.2	0.19	1
p-Chlorotoluene	ND		ug/kg	4.2	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	0.34	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.30	1
Isopropylbenzene	ND		ug/kg	0.85	0.16	1
p-Isopropyltoluene	ND		ug/kg	0.85	0.17	1
Naphthalene	ND		ug/kg	4.2	0.12	1
Acrylonitrile	ND		ug/kg	8.5	0.44	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-13
Client ID: TP-27_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/03/18 10:50
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.85	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.2	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.2	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.2	0.14	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.2	0.16	1
1,4-Dioxane	ND		ug/kg	34	12.	1
p-Diethylbenzene	ND		ug/kg	3.4	3.4	1
p-Ethyltoluene	ND		ug/kg	3.4	0.20	1
1,2,4,5-Tetramethylbenzene	0.17	J	ug/kg	3.4	0.13	1
Ethyl ether	ND		ug/kg	4.2	0.22	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.2	0.33	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	98		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-14
Client ID: TP-27_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/03/18 10:55
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/09/18 14:18
Analyst: PK
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10	1.6	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.27	1
Chloroform	ND		ug/kg	1.5	0.37	1
Carbon tetrachloride	ND		ug/kg	1.0	0.35	1
1,2-Dichloropropane	ND		ug/kg	3.5	0.23	1
Dibromochloromethane	ND		ug/kg	1.0	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31	1
Tetrachloroethene	ND		ug/kg	1.0	0.30	1
Chlorobenzene	ND		ug/kg	1.0	0.35	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.42	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35	1
Bromodichloromethane	ND		ug/kg	1.0	0.31	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23	1
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21	1
1,1-Dichloropropene	ND		ug/kg	5.0	0.33	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30	1
Benzene	ND		ug/kg	1.0	0.19	1
Toluene	ND		ug/kg	1.5	0.20	1
Ethylbenzene	ND		ug/kg	1.0	0.17	1
Chloromethane	ND		ug/kg	5.0	0.44	1
Bromomethane	ND		ug/kg	2.0	0.34	1
Vinyl chloride	ND		ug/kg	2.0	0.32	1
Chloroethane	ND		ug/kg	2.0	0.32	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-14
Client ID: TP-27_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/03/18 10:55
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.0	0.30	1
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.15	1
p/m-Xylene	ND		ug/kg	2.0	0.35	1
o-Xylene	ND		ug/kg	2.0	0.34	1
Xylenes, Total	ND		ug/kg	2.0	0.34	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24	1
Dibromomethane	ND		ug/kg	10	0.24	1
Styrene	ND		ug/kg	2.0	0.40	1
Dichlorodifluoromethane	ND		ug/kg	10	0.50	1
Acetone	5.5	J	ug/kg	10	2.3	1
Carbon disulfide	ND		ug/kg	10	1.1	1
2-Butanone	ND		ug/kg	10	0.69	1
Vinyl acetate	ND		ug/kg	10	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	10	0.18	1
2-Hexanone	ND		ug/kg	10	0.67	1
Bromochloromethane	ND		ug/kg	5.0	0.36	1
2,2-Dichloropropane	ND		ug/kg	5.0	0.45	1
1,2-Dibromoethane	ND		ug/kg	4.0	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.0	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32	1
Bromobenzene	ND		ug/kg	5.0	0.22	1
n-Butylbenzene	ND		ug/kg	1.0	0.23	1
sec-Butylbenzene	ND		ug/kg	1.0	0.22	1
tert-Butylbenzene	ND		ug/kg	5.0	0.25	1
o-Chlorotoluene	ND		ug/kg	5.0	0.22	1
p-Chlorotoluene	ND		ug/kg	5.0	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.35	1
Isopropylbenzene	ND		ug/kg	1.0	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.20	1
Naphthalene	ND		ug/kg	5.0	0.14	1
Acrylonitrile	ND		ug/kg	10	0.52	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-14
Client ID: TP-27_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/03/18 10:55
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19	1
1,4-Dioxane	ND		ug/kg	40	14.	1
p-Diethylbenzene	ND		ug/kg	4.0	4.0	1
p-Ethyltoluene	ND		ug/kg	4.0	0.24	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16	1
Ethyl ether	ND		ug/kg	5.0	0.26	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-16
Client ID: TP-29_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/03/18 11:35
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/09/18 14:44
Analyst: PK
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.6	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.23	1
Chloroform	ND		ug/kg	1.3	0.32	1
Carbon tetrachloride	ND		ug/kg	0.86	0.30	1
1,2-Dichloropropane	ND		ug/kg	3.0	0.20	1
Dibromochloromethane	ND		ug/kg	0.86	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.27	1
Tetrachloroethene	ND		ug/kg	0.86	0.26	1
Chlorobenzene	ND		ug/kg	0.86	0.30	1
Trichlorofluoromethane	ND		ug/kg	4.3	0.36	1
1,2-Dichloroethane	ND		ug/kg	0.86	0.21	1
1,1,1-Trichloroethane	ND		ug/kg	0.86	0.30	1
Bromodichloromethane	ND		ug/kg	0.86	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	0.86	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	0.86	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.86	0.18	1
1,1-Dichloropropene	ND		ug/kg	4.3	0.28	1
Bromoform	ND		ug/kg	3.4	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.86	0.26	1
Benzene	ND		ug/kg	0.86	0.17	1
Toluene	ND		ug/kg	1.3	0.17	1
Ethylbenzene	ND		ug/kg	0.86	0.15	1
Chloromethane	ND		ug/kg	4.3	0.38	1
Bromomethane	ND		ug/kg	1.7	0.29	1
Vinyl chloride	ND		ug/kg	1.7	0.27	1
Chloroethane	ND		ug/kg	1.7	0.27	1
1,1-Dichloroethene	ND		ug/kg	0.86	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.21	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-16
Client ID: TP-29_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/03/18 11:35
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.86	0.26	1
1,2-Dichlorobenzene	ND		ug/kg	4.3	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	4.3	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	4.3	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.13	1
p/m-Xylene	ND		ug/kg	1.7	0.30	1
o-Xylene	ND		ug/kg	1.7	0.29	1
Xylenes, Total	ND		ug/kg	1.7	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.86	0.29	1
1,2-Dichloroethene, Total	ND		ug/kg	0.86	0.21	1
Dibromomethane	ND		ug/kg	8.6	0.21	1
Styrene	ND		ug/kg	1.7	0.34	1
Dichlorodifluoromethane	ND		ug/kg	8.6	0.43	1
Acetone	10		ug/kg	8.6	2.0	1
Carbon disulfide	ND		ug/kg	8.6	0.95	1
2-Butanone	ND		ug/kg	8.6	0.59	1
Vinyl acetate	ND		ug/kg	8.6	0.13	1
4-Methyl-2-pentanone	ND		ug/kg	8.6	0.21	1
1,2,3-Trichloropropane	ND		ug/kg	8.6	0.15	1
2-Hexanone	ND		ug/kg	8.6	0.57	1
Bromochloromethane	ND		ug/kg	4.3	0.31	1
2,2-Dichloropropane	ND		ug/kg	4.3	0.39	1
1,2-Dibromoethane	ND		ug/kg	3.4	0.17	1
1,3-Dichloropropane	ND		ug/kg	4.3	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.86	0.27	1
Bromobenzene	ND		ug/kg	4.3	0.19	1
n-Butylbenzene	ND		ug/kg	0.86	0.20	1
sec-Butylbenzene	ND		ug/kg	0.86	0.19	1
tert-Butylbenzene	ND		ug/kg	4.3	0.21	1
o-Chlorotoluene	ND		ug/kg	4.3	0.19	1
p-Chlorotoluene	ND		ug/kg	4.3	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.3	0.34	1
Hexachlorobutadiene	ND		ug/kg	4.3	0.30	1
Isopropylbenzene	ND		ug/kg	0.86	0.17	1
p-Isopropyltoluene	ND		ug/kg	0.86	0.17	1
Naphthalene	ND		ug/kg	4.3	0.12	1
Acrylonitrile	ND		ug/kg	8.6	0.44	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-16
Client ID: TP-29_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/03/18 11:35
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.86	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.3	0.22	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.3	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.3	0.14	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.3	0.16	1
1,4-Dioxane	ND		ug/kg	34	12.	1
p-Diethylbenzene	ND		ug/kg	3.4	3.4	1
p-Ethyltoluene	ND		ug/kg	3.4	0.20	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.4	0.13	1
Ethyl ether	ND		ug/kg	4.3	0.22	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.3	0.34	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-17
Client ID: TP-29_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/03/18 11:40
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/09/18 15:11
Analyst: PK
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.7	1.6	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.26	1
Chloroform	ND		ug/kg	1.5	0.36	1
Carbon tetrachloride	ND		ug/kg	0.97	0.34	1
1,2-Dichloropropane	ND		ug/kg	3.4	0.22	1
Dibromochloromethane	ND		ug/kg	0.97	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.30	1
Tetrachloroethene	ND		ug/kg	0.97	0.29	1
Chlorobenzene	ND		ug/kg	0.97	0.34	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.40	1
1,2-Dichloroethane	ND		ug/kg	0.97	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.97	0.34	1
Bromodichloromethane	ND		ug/kg	0.97	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	0.97	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.97	0.20	1
1,1-Dichloropropene	ND		ug/kg	4.9	0.32	1
Bromoform	ND		ug/kg	3.9	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.97	0.29	1
Benzene	ND		ug/kg	0.97	0.19	1
Toluene	ND		ug/kg	1.5	0.19	1
Ethylbenzene	0.19	J	ug/kg	0.97	0.16	1
Chloromethane	ND		ug/kg	4.9	0.42	1
Bromomethane	ND		ug/kg	1.9	0.33	1
Vinyl chloride	ND		ug/kg	1.9	0.31	1
Chloroethane	ND		ug/kg	1.9	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.23	1

Project Name: FORMER BICC **Lab Number:** L1815928

Project Number: 056970006 **Report Date:** 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-17 Date Collected: 05/03/18 11:40

Client ID: TP-29_GRAB-2 Date Received: 05/03/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.97	0.29	1
1,2-Dichlorobenzene	ND		ug/kg	4.9	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	4.9	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	4.9	0.18	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.15	1
p/m-Xylene	0.74	J	ug/kg	1.9	0.34	1
o-Xylene	ND		ug/kg	1.9	0.33	1
Xylenes, Total	0.74	J	ug/kg	1.9	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.33	1
1,2-Dichloroethene, Total	ND		ug/kg	0.97	0.23	1
Dibromomethane	ND		ug/kg	9.7	0.23	1
Styrene	ND		ug/kg	1.9	0.39	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.49	1
Acetone	24		ug/kg	9.7	2.2	1
Carbon disulfide	1.1	J	ug/kg	9.7	1.1	1
2-Butanone	ND		ug/kg	9.7	0.67	1
Vinyl acetate	ND		ug/kg	9.7	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	9.7	0.17	1
2-Hexanone	ND		ug/kg	9.7	0.65	1
Bromochloromethane	ND		ug/kg	4.9	0.35	1
2,2-Dichloropropane	ND		ug/kg	4.9	0.44	1
1,2-Dibromoethane	ND		ug/kg	3.9	0.19	1
1,3-Dichloropropane	ND		ug/kg	4.9	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.97	0.31	1
Bromobenzene	ND		ug/kg	4.9	0.21	1
n-Butylbenzene	ND		ug/kg	0.97	0.22	1
sec-Butylbenzene	ND		ug/kg	0.97	0.21	1
tert-Butylbenzene	ND		ug/kg	4.9	0.24	1
o-Chlorotoluene	ND		ug/kg	4.9	0.22	1
p-Chlorotoluene	ND		ug/kg	4.9	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.9	0.38	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.34	1
Isopropylbenzene	ND		ug/kg	0.97	0.19	1
p-Isopropyltoluene	0.25	J	ug/kg	0.97	0.20	1
Naphthalene	1.7	J	ug/kg	4.9	0.13	1
Acrylonitrile	ND		ug/kg	9.7	0.50	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-17
Client ID: TP-29_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/03/18 11:40
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.97	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.9	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.9	0.21	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.9	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.9	0.18	1
1,4-Dioxane	ND		ug/kg	39	14.	1
p-Diethylbenzene	ND		ug/kg	3.9	3.9	1
p-Ethyltoluene	ND		ug/kg	3.9	0.23	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.9	0.15	1
Ethyl ether	ND		ug/kg	4.9	0.25	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	0.38	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	96		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-19
Client ID: TB-05032018
Sample Location: YONKERS, NY

Date Collected: 05/03/18 00:00
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/05/18 11:53
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-19
Client ID: TB-05032018
Sample Location: YONKERS, NY
Date Collected: 05/03/18 00:00
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-19
Client ID: TB-05032018
Sample Location: YONKERS, NY
Date Collected: 05/03/18 00:00
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	104		70-130

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/05/18 11:02
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 19 Batch: WG1113111-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/05/18 11:02
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 19 Batch: WG1113111-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/05/18 11:02
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 19 Batch: WG1113111-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	101		70-130

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/08/18 20:06
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1113952-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	1.0	J	ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/08/18 20:06
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1113952-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/08/18 20:06
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01 Batch: WG1113952-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	96		70-130

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/09/18 08:35
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02,04-05,07-08,10-11,13-14,16-17 Batch: WG1114095-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	0.44	J	ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/09/18 08:35
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02,04-05,07-08,10-11,13-14,16-17 Batch: WG1114095-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/09/18 08:35
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02,04-05,07-08,10-11,13-14,16-17 Batch: WG1114095-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	96		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 19 Batch: WG1113111-3 WG1113111-4								
Methylene chloride	90		94		70-130	4		20
1,1-Dichloroethane	90		93		70-130	3		20
Chloroform	92		94		70-130	2		20
Carbon tetrachloride	96		99		63-132	3		20
1,2-Dichloropropane	87		91		70-130	4		20
Dibromochloromethane	90		94		63-130	4		20
1,1,2-Trichloroethane	92		92		70-130	0		20
Tetrachloroethene	94		98		70-130	4		20
Chlorobenzene	90		93		75-130	3		20
Trichlorofluoromethane	120		120		62-150	0		20
1,2-Dichloroethane	98		98		70-130	0		20
1,1,1-Trichloroethane	98		100		67-130	2		20
Bromodichloromethane	93		96		67-130	3		20
trans-1,3-Dichloropropene	91		94		70-130	3		20
cis-1,3-Dichloropropene	90		93		70-130	3		20
1,1-Dichloropropene	94		97		70-130	3		20
Bromoform	93		94		54-136	1		20
1,1,2,2-Tetrachloroethane	88		90		67-130	2		20
Benzene	90		93		70-130	3		20
Toluene	88		92		70-130	4		20
Ethylbenzene	91		95		70-130	4		20
Chloromethane	93		100		64-130	7		20
Bromomethane	94		100		39-139	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815928

Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 19 Batch: WG1113111-3 WG1113111-4								
Vinyl chloride	87		90		55-140	3		20
Chloroethane	90		100		55-138	11		20
1,1-Dichloroethene	94		98		61-145	4		20
trans-1,2-Dichloroethene	88		93		70-130	6		20
Trichloroethene	97		100		70-130	3		20
1,2-Dichlorobenzene	90		92		70-130	2		20
1,3-Dichlorobenzene	91		92		70-130	1		20
1,4-Dichlorobenzene	92		91		70-130	1		20
Methyl tert butyl ether	92		96		63-130	4		20
p/m-Xylene	95		100		70-130	5		20
o-Xylene	95		100		70-130	5		20
cis-1,2-Dichloroethene	87		89		70-130	2		20
Dibromomethane	89		92		70-130	3		20
1,2,3-Trichloropropane	90		96		64-130	6		20
Acrylonitrile	90		95		70-130	5		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	110		120		36-147	9		20
Acetone	120		100		58-148	18		20
Carbon disulfide	96		100		51-130	4		20
2-Butanone	98		93		63-138	5		20
Vinyl acetate	92		95		70-130	3		20
4-Methyl-2-pentanone	86		94		59-130	9		20
2-Hexanone	85		88		57-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 19 Batch: WG1113111-3 WG1113111-4								
Bromochloromethane	92		98		70-130	6		20
2,2-Dichloropropane	100		100		63-133	0		20
1,2-Dibromoethane	87		91		70-130	4		20
1,3-Dichloropropane	88		89		70-130	1		20
1,1,1,2-Tetrachloroethane	92		95		64-130	3		20
Bromobenzene	89		90		70-130	1		20
n-Butylbenzene	96		99		53-136	3		20
sec-Butylbenzene	97		100		70-130	3		20
tert-Butylbenzene	96		97		70-130	1		20
o-Chlorotoluene	76		76		70-130	0		20
p-Chlorotoluene	91		90		70-130	1		20
1,2-Dibromo-3-chloropropane	91		90		41-144	1		20
Hexachlorobutadiene	89		96		63-130	8		20
Isopropylbenzene	94		95		70-130	1		20
p-Isopropyltoluene	98		100		70-130	2		20
Naphthalene	86		90		70-130	5		20
n-Propylbenzene	95		97		69-130	2		20
1,2,3-Trichlorobenzene	90		92		70-130	2		20
1,2,4-Trichlorobenzene	89		90		70-130	1		20
1,3,5-Trimethylbenzene	93		95		64-130	2		20
1,2,4-Trimethylbenzene	93		95		70-130	2		20
1,4-Dioxane	104		98		56-162	6		20
p-Diethylbenzene	100		100		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815928

Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 19 Batch: WG1113111-3 WG1113111-4								
p-Ethyltoluene	99		100		70-130	1		20
1,2,4,5-Tetramethylbenzene	97		99		70-130	2		20
Ethyl ether	90		94		59-134	4		20
trans-1,4-Dichloro-2-butene	90		93		70-130	3		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	105		105		70-130
Toluene-d8	98		97		70-130
4-Bromofluorobenzene	94		94		70-130
Dibromofluoromethane	105		104		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1113952-3 WG1113952-4								
Methylene chloride	98		100		70-130	2		30
1,1-Dichloroethane	102		103		70-130	1		30
Chloroform	100		101		70-130	1		30
Carbon tetrachloride	106		107		70-130	1		30
1,2-Dichloropropane	103		104		70-130	1		30
Dibromochloromethane	88		90		70-130	2		30
1,1,2-Trichloroethane	94		96		70-130	2		30
Tetrachloroethene	106		106		70-130	0		30
Chlorobenzene	99		99		70-130	0		30
Trichlorofluoromethane	100		100		70-139	0		30
1,2-Dichloroethane	93		96		70-130	3		30
1,1,1-Trichloroethane	102		102		70-130	0		30
Bromodichloromethane	99		101		70-130	2		30
trans-1,3-Dichloropropene	91		91		70-130	0		30
cis-1,3-Dichloropropene	104		105		70-130	1		30
1,1-Dichloropropene	107		108		70-130	1		30
Bromoform	86		88		70-130	2		30
1,1,2,2-Tetrachloroethane	100		100		70-130	0		30
Benzene	103		103		70-130	0		30
Toluene	102		102		70-130	0		30
Ethylbenzene	102		102		70-130	0		30
Chloromethane	101		96		52-130	5		30
Bromomethane	97		100		57-147	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1113952-3 WG1113952-4								
Vinyl chloride	101		101		67-130	0		30
Chloroethane	92		91		50-151	1		30
1,1-Dichloroethene	108		108		65-135	0		30
trans-1,2-Dichloroethene	104		105		70-130	1		30
Trichloroethene	103		104		70-130	1		30
1,2-Dichlorobenzene	99		100		70-130	1		30
1,3-Dichlorobenzene	100		101		70-130	1		30
1,4-Dichlorobenzene	98		98		70-130	0		30
Methyl tert butyl ether	99		100		66-130	1		30
p/m-Xylene	104		104		70-130	0		30
o-Xylene	103		103		70-130	0		30
cis-1,2-Dichloroethene	104		104		70-130	0		30
Dibromomethane	93		94		70-130	1		30
Styrene	103		103		70-130	0		30
Dichlorodifluoromethane	94		94		30-146	0		30
Acetone	102		106		54-140	4		30
Carbon disulfide	96		97		59-130	1		30
2-Butanone	85		89		70-130	5		30
Vinyl acetate	91		90		70-130	1		30
4-Methyl-2-pentanone	96		96		70-130	0		30
1,2,3-Trichloropropane	98		99		68-130	1		30
2-Hexanone	93		91		70-130	2		30
Bromochloromethane	105		107		70-130	2		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1113952-3 WG1113952-4								
2,2-Dichloropropane	104		104		70-130	0		30
1,2-Dibromoethane	94		94		70-130	0		30
1,3-Dichloropropane	100		102		69-130	2		30
1,1,1,2-Tetrachloroethane	100		100		70-130	0		30
Bromobenzene	100		101		70-130	1		30
n-Butylbenzene	103		105		70-130	2		30
sec-Butylbenzene	103		102		70-130	1		30
tert-Butylbenzene	102		102		70-130	0		30
o-Chlorotoluene	98		99		70-130	1		30
p-Chlorotoluene	99		98		70-130	1		30
1,2-Dibromo-3-chloropropane	86		88		68-130	2		30
Hexachlorobutadiene	102		103		67-130	1		30
Isopropylbenzene	102		102		70-130	0		30
p-Isopropyltoluene	103		103		70-130	0		30
Naphthalene	101		100		70-130	1		30
Acrylonitrile	95		98		70-130	3		30
n-Propylbenzene	102		103		70-130	1		30
1,2,3-Trichlorobenzene	101		101		70-130	0		30
1,2,4-Trichlorobenzene	105		105		70-130	0		30
1,3,5-Trimethylbenzene	102		101		70-130	1		30
1,2,4-Trimethylbenzene	102		101		70-130	1		30
1,4-Dioxane	99		99		65-136	0		30
p-Diethylbenzene	105		105		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815928

Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01 Batch: WG1113952-3 WG1113952-4								
p-Ethyltoluene	104		103		70-130	1		30
1,2,4,5-Tetramethylbenzene	101		101		70-130	0		30
Ethyl ether	92		93		67-130	1		30
trans-1,4-Dichloro-2-butene	95		95		70-130	0		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		94		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	100		100		70-130
Dibromofluoromethane	98		100		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04-05,07-08,10-11,13-14,16-17 Batch: WG1114095-3 WG1114095-4								
Methylene chloride	101		98		70-130	3		30
1,1-Dichloroethane	104		101		70-130	3		30
Chloroform	101		99		70-130	2		30
Carbon tetrachloride	102		99		70-130	3		30
1,2-Dichloropropane	104		103		70-130	1		30
Dibromochloromethane	88		88		70-130	0		30
1,1,2-Trichloroethane	95		93		70-130	2		30
Tetrachloroethene	106		103		70-130	3		30
Chlorobenzene	100		98		70-130	2		30
Trichlorofluoromethane	95		90		70-139	5		30
1,2-Dichloroethane	94		92		70-130	2		30
1,1,1-Trichloroethane	102		98		70-130	4		30
Bromodichloromethane	100		99		70-130	1		30
trans-1,3-Dichloropropene	89		90		70-130	1		30
cis-1,3-Dichloropropene	106		103		70-130	3		30
1,1-Dichloropropene	107		103		70-130	4		30
Bromoform	85		84		70-130	1		30
1,1,2,2-Tetrachloroethane	98		96		70-130	2		30
Benzene	104		101		70-130	3		30
Toluene	103		100		70-130	3		30
Ethylbenzene	103		101		70-130	2		30
Chloromethane	100		96		52-130	4		30
Bromomethane	97		92		57-147	5		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04-05,07-08,10-11,13-14,16-17 Batch: WG1114095-3 WG1114095-4								
Vinyl chloride	102		96		67-130	6		30
Chloroethane	93		92		50-151	1		30
1,1-Dichloroethene	106		102		65-135	4		30
trans-1,2-Dichloroethene	105		103		70-130	2		30
Trichloroethene	103		101		70-130	2		30
1,2-Dichlorobenzene	101		96		70-130	5		30
1,3-Dichlorobenzene	102		98		70-130	4		30
1,4-Dichlorobenzene	98		95		70-130	3		30
Methyl tert butyl ether	100		97		66-130	3		30
p/m-Xylene	106		103		70-130	3		30
o-Xylene	104		101		70-130	3		30
cis-1,2-Dichloroethene	107		104		70-130	3		30
Dibromomethane	93		91		70-130	2		30
Styrene	104		102		70-130	2		30
Dichlorodifluoromethane	87		84		30-146	4		30
Acetone	100		98		54-140	2		30
Carbon disulfide	97		93		59-130	4		30
2-Butanone	86		85		70-130	1		30
Vinyl acetate	92		89		70-130	3		30
4-Methyl-2-pentanone	94		93		70-130	1		30
1,2,3-Trichloropropane	97		96		68-130	1		30
2-Hexanone	90		88		70-130	2		30
Bromochloromethane	108		104		70-130	4		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04-05,07-08,10-11,13-14,16-17 Batch: WG1114095-3 WG1114095-4								
2,2-Dichloropropane	104		101		70-130	3		30
1,2-Dibromoethane	94		92		70-130	2		30
1,3-Dichloropropane	102		100		69-130	2		30
1,1,1,2-Tetrachloroethane	100		99		70-130	1		30
Bromobenzene	101		98		70-130	3		30
n-Butylbenzene	104		101		70-130	3		30
sec-Butylbenzene	102		98		70-130	4		30
tert-Butylbenzene	103		99		70-130	4		30
o-Chlorotoluene	99		96		70-130	3		30
p-Chlorotoluene	102		97		70-130	5		30
1,2-Dibromo-3-chloropropane	87		83		68-130	5		30
Hexachlorobutadiene	103		100		67-130	3		30
Isopropylbenzene	103		99		70-130	4		30
p-Isopropyltoluene	105		101		70-130	4		30
Naphthalene	98		98		70-130	0		30
Acrylonitrile	96		95		70-130	1		30
n-Propylbenzene	104		100		70-130	4		30
1,2,3-Trichlorobenzene	101		98		70-130	3		30
1,2,4-Trichlorobenzene	106		102		70-130	4		30
1,3,5-Trimethylbenzene	102		98		70-130	4		30
1,2,4-Trimethylbenzene	103		99		70-130	4		30
1,4-Dioxane	100		100		65-136	0		30
p-Diethylbenzene	106		102		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815928

Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02,04-05,07-08,10-11,13-14,16-17 Batch: WG1114095-3 WG1114095-4								
p-Ethyltoluene	105		102		70-130	3		30
1,2,4,5-Tetramethylbenzene	102		99		70-130	3		30
Ethyl ether	94		91		67-130	3		30
trans-1,4-Dichloro-2-butene	93		90		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		92		70-130
Toluene-d8	99		100		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	97		98		70-130

SEMIVOLATILES

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-03
Client ID: TP-23_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 07:40
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/07/18 17:15
Analyst: SZ
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 05/04/18 17:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	200		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-03
Client ID: TP-23_COMP
Sample Location: YONKERS, NY
Date Collected: 05/03/18 07:40
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	110		ug/kg	100	20.	1
Benzo(a)pyrene	110	J	ug/kg	140	43.	1
Benzo(b)fluoranthene	150		ug/kg	100	30.	1
Benzo(k)fluoranthene	44	J	ug/kg	100	28.	1
Chrysene	110		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	75	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	99	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	80	J	ug/kg	140	24.	1
Pyrene	200		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	84.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	28.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-03
Client ID: TP-23_COMP
Sample Location: YONKERS, NY
Date Collected: 05/03/18 07:40
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	88		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	96		10-136
4-Terphenyl-d14	90		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-06
Client ID: TP-24_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 08:15
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/08/18 03:47
Analyst: EK
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 05/05/18 13:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	43	J	ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	590		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	42	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-06
Client ID: TP-24_COMP
Sample Location: YONKERS, NY
Date Collected: 05/03/18 08:15
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	270		ug/kg	110	20.	1
Benzo(a)pyrene	250		ug/kg	140	43.	1
Benzo(b)fluoranthene	310		ug/kg	110	30.	1
Benzo(k)fluoranthene	120		ug/kg	110	28.	1
Chrysene	250		ug/kg	110	18.	1
Acenaphthylene	43	J	ug/kg	140	27.	1
Anthracene	110		ug/kg	110	35.	1
Benzo(ghi)perylene	140		ug/kg	140	21.	1
Fluorene	50	J	ug/kg	180	17.	1
Phenanthrene	450		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	36	J	ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	150		ug/kg	140	25.	1
Pyrene	530		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	36	J	ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-06
Client ID: TP-24_COMP
Sample Location: YONKERS, NY
Date Collected: 05/03/18 08:15
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	50	J	ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	67		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-09
Client ID: TP-25_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 10:00
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/08/18 04:12
Analyst: EK
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/05/18 13:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	210		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	180	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	47.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: FORMER BICC **Lab Number:** L1815928

Project Number: 056970006 **Report Date:** 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-09 Date Collected: 05/03/18 10:00

Client ID: TP-25_COMP Date Received: 05/03/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	97	J	ug/kg	110	21.	1
Benzo(a)pyrene	89	J	ug/kg	150	45.	1
Benzo(b)fluoranthene	110		ug/kg	110	31.	1
Benzo(k)fluoranthene	39	J	ug/kg	110	30.	1
Chrysene	98	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	43	J	ug/kg	110	36.	1
Benzo(ghi)perylene	58	J	ug/kg	150	22.	1
Fluorene	22	J	ug/kg	180	18.	1
Phenanthrene	170		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	57	J	ug/kg	150	26.	1
Pyrene	180		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	77.	1
Dibenzofuran	ND		ug/kg	180	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-09
Client ID: TP-25_COMP
Sample Location: YONKERS, NY
Date Collected: 05/03/18 10:00
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	36.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	21	J	ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	89		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	94		30-120
2,4,6-Tribromophenol	95		10-136
4-Terphenyl-d14	87		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-12
Client ID: TP-26_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 08:45
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/08/18 03:21
Analyst: EK
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/05/18 13:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	180		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: FORMER BICC **Lab Number:** L1815928

Project Number: 056970006 **Report Date:** 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-12 Date Collected: 05/03/18 08:45

Client ID: TP-26_COMP Date Received: 05/03/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	86	J	ug/kg	110	20.	1
Benzo(a)pyrene	72	J	ug/kg	140	44.	1
Benzo(b)fluoranthene	93	J	ug/kg	110	30.	1
Benzo(k)fluoranthene	33	J	ug/kg	110	29.	1
Chrysene	78	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	44	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	140		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	46	J	ug/kg	140	25.	1
Pyrene	160		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	860	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	86.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-12
Client ID: TP-26_COMP
Sample Location: YONKERS, NY
Date Collected: 05/03/18 08:45
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	79		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-15
Client ID: TP-27_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 11:00
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/08/18 04:38
Analyst: EK
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/05/18 13:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	380		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	27	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: FORMER BICC **Lab Number:** L1815928

Project Number: 056970006 **Report Date:** 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-15 Date Collected: 05/03/18 11:00

Client ID: TP-27_COMP Date Received: 05/03/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	170		ug/kg	110	20.	1
Benzo(a)pyrene	140		ug/kg	140	44.	1
Benzo(b)fluoranthene	210		ug/kg	110	30.	1
Benzo(k)fluoranthene	64	J	ug/kg	110	28.	1
Chrysene	170		ug/kg	110	18.	1
Acenaphthylene	43	J	ug/kg	140	28.	1
Anthracene	63	J	ug/kg	110	35.	1
Benzo(ghi)perylene	100	J	ug/kg	140	21.	1
Fluorene	28	J	ug/kg	180	17.	1
Phenanthrene	220		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	26	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	110	J	ug/kg	140	25.	1
Pyrene	330		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	390	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	86.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-15
Client ID: TP-27_COMP
Sample Location: YONKERS, NY
Date Collected: 05/03/18 11:00
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	28	J	ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	81		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-18
Client ID: TP-29_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 11:45
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/08/18 05:03
Analyst: EK
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/05/18 13:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	20	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	410		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	180	23.	1
Nitrobenzene	ND		ug/kg	170	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	29.	1
Bis(2-ethylhexyl)phthalate	91	J	ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	47.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	63.	1

Project Name: FORMER BICC **Lab Number:** L1815928

Project Number: 056970006 **Report Date:** 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-18 Date Collected: 05/03/18 11:45

Client ID: TP-29_COMP Date Received: 05/03/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	39.	1
Benzo(a)anthracene	210		ug/kg	110	21.	1
Benzo(a)pyrene	190		ug/kg	150	45.	1
Benzo(b)fluoranthene	240		ug/kg	110	31.	1
Benzo(k)fluoranthene	85	J	ug/kg	110	30.	1
Chrysene	200		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	60	J	ug/kg	110	36.	1
Benzo(ghi)perylene	110	J	ug/kg	150	22.	1
Fluorene	24	J	ug/kg	180	18.	1
Phenanthrene	210		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	30	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	120	J	ug/kg	150	26.	1
Pyrene	370		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	34.	1
2-Nitroaniline	ND		ug/kg	180	36.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	77.	1
Dibenzofuran	ND		ug/kg	180	18.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	28.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-18
Client ID: TP-29_COMP
Sample Location: YONKERS, NY
Date Collected: 05/03/18 11:45
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	36.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	180	57.	1
Carbazole	25	J	ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	89		10-136
4-Terphenyl-d14	73		18-120

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/09/18 00:30
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 05/04/18 17:31

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1112768-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/09/18 00:30
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 05/04/18 17:31

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1112768-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	62.

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/09/18 00:30
Analyst: PS

Extraction Method: EPA 3546
Extraction Date: 05/04/18 17:31

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1112768-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	92		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	108		18-120

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/07/18 23:08
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 05/05/18 13:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06,09,12,15,18 Batch: WG1112997-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/07/18 23:08
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 05/05/18 13:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06,09,12,15,18 Batch: WG1112997-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	62.

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/07/18 23:08
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 05/05/18 13:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 06,09,12,15,18 Batch: WG1112997-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	90		30-120
2,4,6-Tribromophenol	93		10-136
4-Terphenyl-d14	102		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1112768-2 WG1112768-3								
Acenaphthene	77		78		31-137	1		50
1,2,4-Trichlorobenzene	72		73		38-107	1		50
Hexachlorobenzene	81		79		40-140	3		50
Bis(2-chloroethyl)ether	72		74		40-140	3		50
2-Chloronaphthalene	76		78		40-140	3		50
1,2-Dichlorobenzene	73		75		40-140	3		50
1,3-Dichlorobenzene	73		74		40-140	1		50
1,4-Dichlorobenzene	73		73		28-104	0		50
3,3'-Dichlorobenzidine	62		65		40-140	5		50
2,4-Dinitrotoluene	99		98		40-132	1		50
2,6-Dinitrotoluene	92		89		40-140	3		50
Fluoranthene	82		82		40-140	0		50
4-Chlorophenyl phenyl ether	80		79		40-140	1		50
4-Bromophenyl phenyl ether	82		82		40-140	0		50
Bis(2-chloroisopropyl)ether	73		74		40-140	1		50
Bis(2-chloroethoxy)methane	74		76		40-117	3		50
Hexachlorobutadiene	76		79		40-140	4		50
Hexachlorocyclopentadiene	90		91		40-140	1		50
Hexachloroethane	76		80		40-140	5		50
Isophorone	76		77		40-140	1		50
Naphthalene	76		77		40-140	1		50
Nitrobenzene	82		83		40-140	1		50
NDPA/DPA	82		82		36-157	0		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1112768-2 WG1112768-3								
n-Nitrosodi-n-propylamine	75		77		32-121	3		50
Bis(2-ethylhexyl)phthalate	91		92		40-140	1		50
Butyl benzyl phthalate	92		92		40-140	0		50
Di-n-butylphthalate	86		88		40-140	2		50
Di-n-octylphthalate	89		91		40-140	2		50
Diethyl phthalate	83		82		40-140	1		50
Dimethyl phthalate	81		80		40-140	1		50
Benzo(a)anthracene	80		82		40-140	2		50
Benzo(a)pyrene	84		87		40-140	4		50
Benzo(b)fluoranthene	80		83		40-140	4		50
Benzo(k)fluoranthene	85		85		40-140	0		50
Chrysene	79		80		40-140	1		50
Acenaphthylene	84		83		40-140	1		50
Anthracene	83		83		40-140	0		50
Benzo(ghi)perylene	82		82		40-140	0		50
Fluorene	82		82		40-140	0		50
Phenanthrene	77		79		40-140	3		50
Dibenzo(a,h)anthracene	82		84		40-140	2		50
Indeno(1,2,3-cd)pyrene	82		85		40-140	4		50
Pyrene	79		79		35-142	0		50
Biphenyl	79		80		54-104	1		50
4-Chloroaniline	65		83		40-140	24		50
2-Nitroaniline	95		94		47-134	1		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1112768-2 WG1112768-3								
3-Nitroaniline	66		68		26-129	3		50
4-Nitroaniline	82		80		41-125	2		50
Dibenzofuran	79		79		40-140	0		50
2-Methylnaphthalene	78		79		40-140	1		50
1,2,4,5-Tetrachlorobenzene	79		80		40-117	1		50
Acetophenone	79		79		14-144	0		50
2,4,6-Trichlorophenol	86		86		30-130	0		50
p-Chloro-m-cresol	87		89		26-103	2		50
2-Chlorophenol	81		82		25-102	1		50
2,4-Dichlorophenol	85		86		30-130	1		50
2,4-Dimethylphenol	85		88		30-130	3		50
2-Nitrophenol	95		97		30-130	2		50
4-Nitrophenol	109		109		11-114	0		50
2,4-Dinitrophenol	101		98		4-130	3		50
4,6-Dinitro-o-cresol	110		108		10-130	2		50
Pentachlorophenol	75		74		17-109	1		50
Phenol	81		84		26-90	4		50
2-Methylphenol	82		83		30-130.	1		50
3-Methylphenol/4-Methylphenol	87		87		30-130	0		50
2,4,5-Trichlorophenol	89		89		30-130	0		50
Benzoic Acid	64		71		10-110	10		50
Benzyl Alcohol	83		83		40-140	0		50
Carbazole	81		83		54-128	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815928

Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1112768-2 WG1112768-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	76		76		25-120
Phenol-d6	77		80		10-120
Nitrobenzene-d5	81		82		23-120
2-Fluorobiphenyl	79		79		30-120
2,4,6-Tribromophenol	89		85		10-136
4-Terphenyl-d14	84		86		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815928

Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06,09,12,15,18 Batch: WG1112997-2 WG1112997-3								
Acenaphthene	88		74		31-137	17		50
1,2,4-Trichlorobenzene	88		77		38-107	13		50
Hexachlorobenzene	89		74		40-140	18		50
Bis(2-chloroethyl)ether	92		79		40-140	15		50
2-Chloronaphthalene	97		81		40-140	18		50
1,2-Dichlorobenzene	86		76		40-140	12		50
1,3-Dichlorobenzene	85		76		40-140	11		50
1,4-Dichlorobenzene	85		76		28-104	11		50
3,3'-Dichlorobenzidine	70		60		40-140	15		50
2,4-Dinitrotoluene	118		98		40-132	19		50
2,6-Dinitrotoluene	119		98		40-140	19		50
Fluoranthene	92		78		40-140	16		50
4-Chlorophenyl phenyl ether	90		76		40-140	17		50
4-Bromophenyl phenyl ether	92		77		40-140	18		50
Bis(2-chloroisopropyl)ether	117		102		40-140	14		50
Bis(2-chloroethoxy)methane	96		83		40-117	15		50
Hexachlorobutadiene	88		76		40-140	15		50
Hexachlorocyclopentadiene	78		64		40-140	20		50
Hexachloroethane	85		76		40-140	11		50
Isophorone	96		82		40-140	16		50
Naphthalene	88		76		40-140	15		50
Nitrobenzene	99		86		40-140	14		50
NDPA/DPA	93		78		36-157	18		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815928

Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06,09,12,15,18 Batch: WG1112997-2 WG1112997-3								
n-Nitrosodi-n-propylamine	94		82		32-121	14		50
Bis(2-ethylhexyl)phthalate	102		86		40-140	17		50
Butyl benzyl phthalate	100		82		40-140	20		50
Di-n-butylphthalate	97		81		40-140	18		50
Di-n-octylphthalate	104		87		40-140	18		50
Diethyl phthalate	91		77		40-140	17		50
Dimethyl phthalate	99		82		40-140	19		50
Benzo(a)anthracene	92		78		40-140	16		50
Benzo(a)pyrene	94		80		40-140	16		50
Benzo(b)fluoranthene	92		78		40-140	16		50
Benzo(k)fluoranthene	92		78		40-140	16		50
Chrysene	91		78		40-140	15		50
Acenaphthylene	98		82		40-140	18		50
Anthracene	92		78		40-140	16		50
Benzo(ghi)perylene	93		78		40-140	18		50
Fluorene	92		77		40-140	18		50
Phenanthrene	91		78		40-140	15		50
Dibenzo(a,h)anthracene	91		78		40-140	15		50
Indeno(1,2,3-cd)pyrene	91		78		40-140	15		50
Pyrene	92		77		35-142	18		50
Biphenyl	97		80		54-104	19		50
4-Chloroaniline	85		72		40-140	17		50
2-Nitroaniline	122		100		47-134	20		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06,09,12,15,18 Batch: WG1112997-2 WG1112997-3								
3-Nitroaniline	84		73		26-129	14		50
4-Nitroaniline	108		89		41-125	19		50
Dibenzofuran	91		76		40-140	18		50
2-Methylnaphthalene	93		79		40-140	16		50
1,2,4,5-Tetrachlorobenzene	94		79		40-117	17		50
Acetophenone	98		85		14-144	14		50
2,4,6-Trichlorophenol	103		86		30-130	18		50
p-Chloro-m-cresol	101		83		26-103	20		50
2-Chlorophenol	95		81		25-102	16		50
2,4-Dichlorophenol	104		89		30-130	16		50
2,4-Dimethylphenol	100		86		30-130	15		50
2-Nitrophenol	113		97		30-130	15		50
4-Nitrophenol	**118**	Q	95		11-114	22		50
2,4-Dinitrophenol	94		82		4-130	14		50
4,6-Dinitro-o-cresol	116		96		10-130	19		50
Pentachlorophenol	88		74		17-109	17		50
Phenol	90		78		26-90	14		50
2-Methylphenol	100		84		30-130.	17		50
3-Methylphenol/4-Methylphenol	100		86		30-130	15		50
2,4,5-Trichlorophenol	103		86		30-130	18		50
Benzoic Acid	73		70		10-110	4		50
Benzyl Alcohol	99		84		40-140	16		50
Carbazole	98		83		54-128	17		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815928

Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 06,09,12,15,18 Batch: WG1112997-2 WG1112997-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	91		79		25-120
Phenol-d6	94		79		10-120
Nitrobenzene-d5	101		86		23-120
2-Fluorobiphenyl	96		78		30-120
2,4,6-Tribromophenol	96		77		10-136
4-Terphenyl-d14	99		80		18-120

PCBS

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-03
Client ID: TP-23_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 07:40
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/07/18 06:52
Analyst: KB
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 05/05/18 07:01
Cleanup Method: EPA 3665A
Cleanup Date: 05/05/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.4	4.02	1	A
Aroclor 1221	ND		ug/kg	35.4	5.39	1	A
Aroclor 1232	ND		ug/kg	35.4	3.49	1	A
Aroclor 1242	ND		ug/kg	35.4	4.34	1	A
Aroclor 1248	ND		ug/kg	35.4	3.98	1	A
Aroclor 1254	ND		ug/kg	35.4	2.89	1	A
Aroclor 1260	5.00	J	ug/kg	35.4	3.70	1	A
Aroclor 1262	ND		ug/kg	35.4	2.91	1	A
Aroclor 1268	ND		ug/kg	35.4	2.51	1	A
PCBs, Total	5.00	J	ug/kg	35.4	2.51	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	99		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-06
Client ID: TP-24_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 08:15
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/07/18 07:05
Analyst: KB
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 05/05/18 07:01
Cleanup Method: EPA 3665A
Cleanup Date: 05/05/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.4	4.01	1	A
Aroclor 1221	ND		ug/kg	35.4	5.39	1	A
Aroclor 1232	ND		ug/kg	35.4	3.48	1	A
Aroclor 1242	ND		ug/kg	35.4	4.33	1	A
Aroclor 1248	ND		ug/kg	35.4	3.97	1	A
Aroclor 1254	5.96	J	ug/kg	35.4	2.89	1	B
Aroclor 1260	5.62	J	ug/kg	35.4	3.69	1	A
Aroclor 1262	ND		ug/kg	35.4	2.91	1	A
Aroclor 1268	ND		ug/kg	35.4	2.50	1	A
PCBs, Total	11.6	J	ug/kg	35.4	2.50	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	99		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-09
Client ID: TP-25_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 10:00
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/07/18 07:19
Analyst: KB
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/05/18 07:01
Cleanup Method: EPA 3665A
Cleanup Date: 05/05/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.4	4.02	1	A
Aroclor 1221	ND		ug/kg	35.4	5.39	1	A
Aroclor 1232	ND		ug/kg	35.4	3.49	1	A
Aroclor 1242	ND		ug/kg	35.4	4.34	1	A
Aroclor 1248	ND		ug/kg	35.4	3.98	1	A
Aroclor 1254	ND		ug/kg	35.4	2.89	1	A
Aroclor 1260	8.52	J	ug/kg	35.4	3.70	1	A
Aroclor 1262	ND		ug/kg	35.4	2.91	1	A
Aroclor 1268	5.44	J	ug/kg	35.4	2.51	1	B
PCBs, Total	14.0	J	ug/kg	35.4	2.51	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	107		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-12
Client ID: TP-26_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 08:45
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/06/18 23:43
Analyst: KB
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/05/18 07:01
Cleanup Method: EPA 3665A
Cleanup Date: 05/05/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.1	4.09	1	A
Aroclor 1221	ND		ug/kg	36.1	5.49	1	A
Aroclor 1232	ND		ug/kg	36.1	3.55	1	A
Aroclor 1242	ND		ug/kg	36.1	4.42	1	A
Aroclor 1248	ND		ug/kg	36.1	4.05	1	A
Aroclor 1254	4.56	J	ug/kg	36.1	2.94	1	B
Aroclor 1260	ND		ug/kg	36.1	3.77	1	A
Aroclor 1262	ND		ug/kg	36.1	2.97	1	A
Aroclor 1268	ND		ug/kg	36.1	2.56	1	A
PCBs, Total	4.56	J	ug/kg	36.1	2.56	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	94		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	84		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-15
Client ID: TP-27_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 11:00
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/06/18 23:56
Analyst: KB
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/05/18 07:01
Cleanup Method: EPA 3665A
Cleanup Date: 05/05/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.6	4.03	1	A
Aroclor 1221	ND		ug/kg	35.6	5.41	1	A
Aroclor 1232	ND		ug/kg	35.6	3.50	1	A
Aroclor 1242	ND		ug/kg	35.6	4.35	1	A
Aroclor 1248	ND		ug/kg	35.6	3.99	1	A
Aroclor 1254	ND		ug/kg	35.6	2.90	1	A
Aroclor 1260	30.6	J	ug/kg	35.6	3.71	1	A
Aroclor 1262	ND		ug/kg	35.6	2.92	1	A
Aroclor 1268	ND		ug/kg	35.6	2.52	1	A
PCBs, Total	30.6	J	ug/kg	35.6	2.52	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	95		30-150	B
Decachlorobiphenyl	88		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-18
Client ID: TP-29_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 11:45
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/07/18 00:09
Analyst: KB
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/05/18 07:01
Cleanup Method: EPA 3665A
Cleanup Date: 05/05/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.7	4.27	1	A
Aroclor 1221	ND		ug/kg	37.7	5.73	1	A
Aroclor 1232	ND		ug/kg	37.7	3.71	1	A
Aroclor 1242	ND		ug/kg	37.7	4.61	1	A
Aroclor 1248	ND		ug/kg	37.7	4.23	1	A
Aroclor 1254	10.8	J	ug/kg	37.7	3.07	1	B
Aroclor 1260	7.29	J	ug/kg	37.7	3.93	1	B
Aroclor 1262	ND		ug/kg	37.7	3.10	1	A
Aroclor 1268	ND		ug/kg	37.7	2.67	1	A
PCBs, Total	18.1	J	ug/kg	37.7	2.67	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	92		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/06/18 02:31
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 05/05/18 00:21
Cleanup Method: EPA 3665A
Cleanup Date: 05/05/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/05/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03,06,09,12,15,18 Batch: WG1112850-1						
Aroclor 1016	ND		ug/kg	32.0	3.63	A
Aroclor 1221	ND		ug/kg	32.0	4.88	A
Aroclor 1232	ND		ug/kg	32.0	3.15	A
Aroclor 1242	ND		ug/kg	32.0	3.92	A
Aroclor 1248	ND		ug/kg	32.0	3.59	A
Aroclor 1254	ND		ug/kg	32.0	2.61	A
Aroclor 1260	ND		ug/kg	32.0	3.34	A
Aroclor 1262	ND		ug/kg	32.0	2.63	A
Aroclor 1268	ND		ug/kg	32.0	2.27	A
PCBs, Total	ND		ug/kg	32.0	2.27	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	88		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03,06,09,12,15,18 Batch: WG1112850-2 WG1112850-3									
Aroclor 1016	88		92		40-140	4		50	A
Aroclor 1260	83		87		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		95		30-150	A
Decachlorobiphenyl	87		91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		93		30-150	B
Decachlorobiphenyl	97		101		30-150	B

PESTICIDES

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-03
Client ID: TP-23_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 07:40
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/07/18 00:57
Analyst: JW
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 05/05/18 07:54
Cleanup Method: EPA 3620B
Cleanup Date: 05/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.67	0.328	1	A
Lindane	ND		ug/kg	0.698	0.312	1	A
Alpha-BHC	ND		ug/kg	0.698	0.198	1	A
Beta-BHC	ND		ug/kg	1.67	0.635	1	A
Heptachlor	ND		ug/kg	0.837	0.375	1	A
Aldrin	ND		ug/kg	1.67	0.589	1	A
Heptachlor epoxide	ND		ug/kg	3.14	0.942	1	A
Endrin	ND		ug/kg	0.698	0.286	1	A
Endrin aldehyde	ND		ug/kg	2.09	0.732	1	A
Endrin ketone	ND		ug/kg	1.67	0.431	1	A
Dieldrin	ND		ug/kg	1.05	0.523	1	A
4,4'-DDE	ND		ug/kg	1.67	0.387	1	A
4,4'-DDD	ND		ug/kg	1.67	0.597	1	A
4,4'-DDT	2.98	J	ug/kg	3.14	1.35	1	A
Endosulfan I	ND		ug/kg	1.67	0.396	1	A
Endosulfan II	ND		ug/kg	1.67	0.559	1	A
Endosulfan sulfate	ND		ug/kg	0.698	0.332	1	A
Methoxychlor	ND		ug/kg	3.14	0.977	1	A
Toxaphene	ND		ug/kg	31.4	8.79	1	A
cis-Chlordane	ND		ug/kg	2.09	0.583	1	A
trans-Chlordane	ND		ug/kg	2.09	0.552	1	A
Chlordane	ND		ug/kg	13.6	5.54	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-03
Client ID: TP-23_COMP
Sample Location: YONKERS, NY
Date Collected: 05/03/18 07:40
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	101		30-150	B
Decachlorobiphenyl	103		30-150	B
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	88		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-03
Client ID: TP-23_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 07:40
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/08/18 01:44
Analyst: SL
Percent Solids: 94%
Methylation Date: 05/06/18 07:55

Extraction Method: EPA 8151A
Extraction Date: 05/05/18 00:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	172	10.8	1	A
2,4,5-T	ND		ug/kg	172	5.34	1	A
2,4,5-TP (Silvex)	ND		ug/kg	172	4.58	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	97		30-150	A
DCAA	95		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-06
Client ID: TP-24_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 08:15
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/07/18 01:10
Analyst: JW
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 05/05/18 07:54
Cleanup Method: EPA 3620B
Cleanup Date: 05/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.65	0.323	1	A
Lindane	ND		ug/kg	0.688	0.307	1	A
Alpha-BHC	ND		ug/kg	0.688	0.195	1	A
Beta-BHC	ND		ug/kg	1.65	0.626	1	A
Heptachlor	ND		ug/kg	0.825	0.370	1	A
Aldrin	ND		ug/kg	1.65	0.581	1	A
Heptachlor epoxide	ND		ug/kg	3.09	0.928	1	A
Endrin	ND		ug/kg	0.688	0.282	1	A
Endrin aldehyde	ND		ug/kg	2.06	0.722	1	A
Endrin ketone	ND		ug/kg	1.65	0.425	1	A
Dieldrin	ND		ug/kg	1.03	0.516	1	A
4,4'-DDE	ND		ug/kg	1.65	0.382	1	A
4,4'-DDD	ND		ug/kg	1.65	0.588	1	A
4,4'-DDT	1.75	J	ug/kg	3.09	1.33	1	A
Endosulfan I	ND		ug/kg	1.65	0.390	1	A
Endosulfan II	ND		ug/kg	1.65	0.551	1	A
Endosulfan sulfate	ND		ug/kg	0.688	0.327	1	A
Methoxychlor	ND		ug/kg	3.09	0.962	1	A
Toxaphene	ND		ug/kg	30.9	8.66	1	A
cis-Chlordane	ND		ug/kg	2.06	0.575	1	A
trans-Chlordane	ND		ug/kg	2.06	0.544	1	A
Chlordane	ND		ug/kg	13.4	5.46	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-06
Client ID: TP-24_COMP
Sample Location: YONKERS, NY
Date Collected: 05/03/18 08:15
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	101		30-150	B
Decachlorobiphenyl	109		30-150	B
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	91		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-06
Client ID: TP-24_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 08:15
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/08/18 02:03
Analyst: SL
Percent Solids: 93%
Methylation Date: 05/06/18 07:55

Extraction Method: EPA 8151A
Extraction Date: 05/05/18 00:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	178	11.2	1	A
2,4,5-T	ND		ug/kg	178	5.50	1	A
2,4,5-TP (Silvex)	ND		ug/kg	178	4.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	87		30-150	A
DCAA	86		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-09
Client ID: TP-25_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 10:00
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/07/18 01:22
Analyst: JW
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/05/18 07:54
Cleanup Method: EPA 3620B
Cleanup Date: 05/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.76	0.345	1	A
Lindane	ND		ug/kg	0.735	0.328	1	A
Alpha-BHC	ND		ug/kg	0.735	0.209	1	A
Beta-BHC	ND		ug/kg	1.76	0.669	1	A
Heptachlor	ND		ug/kg	0.882	0.395	1	A
Aldrin	ND		ug/kg	1.76	0.621	1	A
Heptachlor epoxide	ND		ug/kg	3.31	0.992	1	A
Endrin	ND		ug/kg	0.735	0.301	1	A
Endrin aldehyde	ND		ug/kg	2.20	0.771	1	A
Endrin ketone	ND		ug/kg	1.76	0.454	1	A
Dieldrin	ND		ug/kg	1.10	0.551	1	A
4,4'-DDE	1.05	J	ug/kg	1.76	0.408	1	A
4,4'-DDD	ND		ug/kg	1.76	0.629	1	A
4,4'-DDT	ND	PI	ug/kg	3.31	1.42	1	B
Endosulfan I	ND		ug/kg	1.76	0.416	1	A
Endosulfan II	ND		ug/kg	1.76	0.589	1	A
Endosulfan sulfate	ND		ug/kg	0.735	0.350	1	A
Methoxychlor	ND		ug/kg	3.31	1.03	1	A
Toxaphene	ND		ug/kg	33.1	9.26	1	A
cis-Chlordane	ND		ug/kg	2.20	0.614	1	A
trans-Chlordane	ND		ug/kg	2.20	0.582	1	A
Chlordane	ND		ug/kg	14.3	5.84	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-09
Client ID: TP-25_COMP
Sample Location: YONKERS, NY
Date Collected: 05/03/18 10:00
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	104		30-150	B
Decachlorobiphenyl	101		30-150	B
2,4,5,6-Tetrachloro-m-xylene	104		30-150	A
Decachlorobiphenyl	86		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-09
Client ID: TP-25_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 10:00
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/08/18 02:22
Analyst: SL
Percent Solids: 90%
Methylation Date: 05/06/18 07:55

Extraction Method: EPA 8151A
Extraction Date: 05/05/18 00:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	185	11.7	1	A
2,4,5-T	ND		ug/kg	185	5.74	1	A
2,4,5-TP (Silvex)	ND		ug/kg	185	4.93	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	83		30-150	A
DCAA	88		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-12
Client ID: TP-26_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 08:45
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/07/18 01:35
Analyst: JW
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/05/18 07:54
Cleanup Method: EPA 3620B
Cleanup Date: 05/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	0.326	1	A
Lindane	ND		ug/kg	0.693	0.310	1	A
Alpha-BHC	ND		ug/kg	0.693	0.197	1	A
Beta-BHC	ND		ug/kg	1.66	0.631	1	A
Heptachlor	ND		ug/kg	0.832	0.373	1	A
Aldrin	ND		ug/kg	1.66	0.586	1	A
Heptachlor epoxide	ND		ug/kg	3.12	0.936	1	A
Endrin	ND		ug/kg	0.693	0.284	1	A
Endrin aldehyde	ND		ug/kg	2.08	0.728	1	A
Endrin ketone	ND		ug/kg	1.66	0.428	1	A
Dieldrin	ND		ug/kg	1.04	0.520	1	A
4,4'-DDE	ND		ug/kg	1.66	0.385	1	A
4,4'-DDD	ND		ug/kg	1.66	0.593	1	A
4,4'-DDT	6.51	P	ug/kg	3.12	1.34	1	A
Endosulfan I	ND		ug/kg	1.66	0.393	1	A
Endosulfan II	ND		ug/kg	1.66	0.556	1	A
Endosulfan sulfate	ND		ug/kg	0.693	0.330	1	A
Methoxychlor	ND		ug/kg	3.12	0.971	1	A
Toxaphene	ND		ug/kg	31.2	8.74	1	A
cis-Chlordane	ND		ug/kg	2.08	0.580	1	A
trans-Chlordane	ND		ug/kg	2.08	0.549	1	A
Chlordane	ND		ug/kg	13.5	5.51	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-12
Client ID: TP-26_COMP
Sample Location: YONKERS, NY
Date Collected: 05/03/18 08:45
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	B
Decachlorobiphenyl	124		30-150	B
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	94		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-12
Client ID: TP-26_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 08:45
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/08/18 02:41
Analyst: SL
Percent Solids: 91%
Methylation Date: 05/06/18 07:55

Extraction Method: EPA 8151A
Extraction Date: 05/05/18 00:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	179	11.3	1	A
2,4,5-T	ND		ug/kg	179	5.55	1	A
2,4,5-TP (Silvex)	ND		ug/kg	179	4.76	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	85		30-150	A
DCAA	91		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-15
Client ID: TP-27_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 11:00
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/07/18 01:48
Analyst: JW
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/05/18 07:54
Cleanup Method: EPA 3620B
Cleanup Date: 05/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.70	0.332	1	A
Lindane	ND		ug/kg	0.707	0.316	1	A
Alpha-BHC	ND		ug/kg	0.707	0.201	1	A
Beta-BHC	ND		ug/kg	1.70	0.643	1	A
Heptachlor	ND		ug/kg	0.848	0.380	1	A
Aldrin	ND		ug/kg	1.70	0.597	1	A
Heptachlor epoxide	ND		ug/kg	3.18	0.954	1	A
Endrin	ND		ug/kg	0.707	0.290	1	A
Endrin aldehyde	ND		ug/kg	2.12	0.742	1	A
Endrin ketone	ND		ug/kg	1.70	0.437	1	A
Dieldrin	ND		ug/kg	1.06	0.530	1	A
4,4'-DDE	ND		ug/kg	1.70	0.392	1	A
4,4'-DDD	ND		ug/kg	1.70	0.605	1	A
4,4'-DDT	2.89	JPI	ug/kg	3.18	1.36	1	B
Endosulfan I	ND		ug/kg	1.70	0.401	1	A
Endosulfan II	ND		ug/kg	1.70	0.567	1	A
Endosulfan sulfate	ND		ug/kg	0.707	0.336	1	A
Methoxychlor	ND		ug/kg	3.18	0.989	1	A
Toxaphene	ND		ug/kg	31.8	8.90	1	A
cis-Chlordane	ND		ug/kg	2.12	0.591	1	A
trans-Chlordane	ND		ug/kg	2.12	0.560	1	A
Chlordane	ND		ug/kg	13.8	5.62	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-15
Client ID: TP-27_COMP
Sample Location: YONKERS, NY
Date Collected: 05/03/18 11:00
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		30-150	B
Decachlorobiphenyl	110		30-150	B
2,4,5,6-Tetrachloro-m-xylene	93		30-150	A
Decachlorobiphenyl	97		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-15
Client ID: TP-27_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 11:00
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/08/18 03:00
Analyst: SL
Percent Solids: 92%
Methylation Date: 05/06/18 07:55

Extraction Method: EPA 8151A
Extraction Date: 05/05/18 00:04

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	177	11.1	1	A
2,4,5-T	ND		ug/kg	177	5.48	1	A
2,4,5-TP (Silvex)	ND		ug/kg	177	4.70	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	93		30-150	A
DCAA	93		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-18
Client ID: TP-29_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 11:45
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/07/18 02:01
Analyst: JW
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/05/18 07:54
Cleanup Method: EPA 3620B
Cleanup Date: 05/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.74	0.341	1	A
Lindane	ND		ug/kg	0.725	0.324	1	A
Alpha-BHC	ND		ug/kg	0.725	0.206	1	A
Beta-BHC	ND		ug/kg	1.74	0.660	1	A
Heptachlor	ND		ug/kg	0.870	0.390	1	A
Aldrin	ND		ug/kg	1.74	0.612	1	A
Heptachlor epoxide	ND		ug/kg	3.26	0.979	1	A
Endrin	ND		ug/kg	0.725	0.297	1	A
Endrin aldehyde	ND		ug/kg	2.17	0.761	1	A
Endrin ketone	ND		ug/kg	1.74	0.448	1	A
Dieldrin	ND		ug/kg	1.09	0.544	1	A
4,4'-DDE	0.521	J	ug/kg	1.74	0.402	1	A
4,4'-DDD	1.75		ug/kg	1.74	0.620	1	B
4,4'-DDT	2.71	J	ug/kg	3.26	1.40	1	B
Endosulfan I	ND		ug/kg	1.74	0.411	1	A
Endosulfan II	ND		ug/kg	1.74	0.581	1	A
Endosulfan sulfate	ND		ug/kg	0.725	0.345	1	A
Methoxychlor	ND		ug/kg	3.26	1.01	1	A
Toxaphene	ND		ug/kg	32.6	9.13	1	A
cis-Chlordane	ND		ug/kg	2.17	0.606	1	A
trans-Chlordane	ND		ug/kg	2.17	0.574	1	A
Chlordane	ND		ug/kg	14.1	5.76	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-18
Client ID: TP-29_COMP
Sample Location: YONKERS, NY
Date Collected: 05/03/18 11:45
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		30-150	B
Decachlorobiphenyl	104		30-150	B
2,4,5,6-Tetrachloro-m-xylene	98		30-150	A
Decachlorobiphenyl	95		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-18
Client ID: TP-29_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 11:45
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/08/18 03:18
Analyst: SL
Percent Solids: 88%
Methylation Date: 05/06/18 07:55

Extraction Method: EPA 8151A
Extraction Date: 05/05/18 00:06

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	189	11.9	1	A
2,4,5-T	ND		ug/kg	189	5.86	1	A
2,4,5-TP (Silvex)	ND		ug/kg	189	5.03	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	95		30-150	A
DCAA	104		30-150	B

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 05/06/18 20:16
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 05/04/18 07:58

Methylation Date: 05/04/18 23:19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 03,06,09,12,15,18 Batch: WG1112844-1						
2,4-D	ND		ug/kg	165	10.4	A
2,4,5-T	ND		ug/kg	165	5.10	A
2,4,5-TP (Silvex)	ND		ug/kg	165	4.38	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	98		30-150	A
DCAA	128		30-150	B

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/06/18 20:23
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 05/05/18 00:19
Cleanup Method: EPA 3620B
Cleanup Date: 05/05/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03,06,09,12,15,18 Batch: WG1112849-1						
Delta-BHC	ND		ug/kg	1.52	0.298	A
Lindane	ND		ug/kg	0.634	0.283	A
Alpha-BHC	ND		ug/kg	0.634	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.577	A
Heptachlor	ND		ug/kg	0.760	0.341	A
Aldrin	ND		ug/kg	1.52	0.535	A
Heptachlor epoxide	ND		ug/kg	2.85	0.856	A
Endrin	ND		ug/kg	0.634	0.260	A
Endrin aldehyde	ND		ug/kg	1.90	0.665	A
Endrin ketone	ND		ug/kg	1.52	0.392	A
Dieldrin	ND		ug/kg	0.950	0.475	A
4,4'-DDE	ND		ug/kg	1.52	0.352	A
4,4'-DDD	ND		ug/kg	1.52	0.542	A
4,4'-DDT	ND		ug/kg	2.85	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.359	A
Endosulfan II	ND		ug/kg	1.52	0.508	A
Endosulfan sulfate	ND		ug/kg	0.634	0.302	A
Methoxychlor	ND		ug/kg	2.85	0.887	A
Toxaphene	ND		ug/kg	28.5	7.98	A
cis-Chlordane	ND		ug/kg	1.90	0.530	A
trans-Chlordane	ND		ug/kg	1.90	0.502	A
Chlordane	ND		ug/kg	12.4	5.04	A

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/06/18 20:23
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 05/05/18 00:19
Cleanup Method: EPA 3620B
Cleanup Date: 05/05/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03,06,09,12,15,18 Batch: WG1112849-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	69		30-150	B
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	61		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815928

Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 03,06,09,12,15,18 Batch: WG1112844-2 WG1112844-3									
2,4-D	79		89		30-150	12		30	A
2,4,5-T	84		93		30-150	10		30	A
2,4,5-TP (Silvex)	81		81		30-150	0		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	90		100		30-150	A
DCAA	118		124		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03,06,09,12,15,18 Batch: WG1112849-2 WG1112849-3									
Delta-BHC	95		108		30-150	13		30	A
Lindane	93		104		30-150	11		30	A
Alpha-BHC	91		102		30-150	11		30	A
Beta-BHC	91		115		30-150	23		30	A
Heptachlor	96		107		30-150	11		30	A
Aldrin	92		101		30-150	9		30	A
Heptachlor epoxide	90		100		30-150	11		30	A
Endrin	100		115		30-150	14		30	A
Endrin aldehyde	53		74		30-150	**33**	Q	30	A
Endrin ketone	82		106		30-150	26		30	A
Dieldrin	93		110		30-150	17		30	A
4,4'-DDE	85		94		30-150	10		30	A
4,4'-DDD	90		105		30-150	15		30	A
4,4'-DDT	98		119		30-150	19		30	A
Endosulfan I	84		94		30-150	11		30	A
Endosulfan II	81		95		30-150	16		30	A
Endosulfan sulfate	45		62		30-150	**32**	Q	30	A
Methoxychlor	112		138		30-150	21		30	A
cis-Chlordane	75		84		30-150	11		30	A
trans-Chlordane	70		75		30-150	7		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815928

Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03,06,09,12,15,18 Batch: WG1112849-2 WG1112849-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		84		30-150	B
Decachlorobiphenyl	76		86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		77		30-150	A
Decachlorobiphenyl	72		78		30-150	A

METALS

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-03
Client ID: TP-23_COMP
Sample Location: YONKERS, NY
Date Collected: 05/03/18 07:40
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8560		mg/kg	8.30	2.24	2	05/08/18 19:36	05/09/18 14:12	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.15	0.316	2	05/08/18 19:36	05/09/18 14:12	EPA 3050B	1,6010C	LC
Arsenic, Total	1.05		mg/kg	0.830	0.173	2	05/08/18 19:36	05/09/18 14:12	EPA 3050B	1,6010C	LC
Barium, Total	90.9		mg/kg	0.830	0.144	2	05/08/18 19:36	05/09/18 14:12	EPA 3050B	1,6010C	LC
Beryllium, Total	0.10	J	mg/kg	0.415	0.027	2	05/08/18 19:36	05/09/18 14:12	EPA 3050B	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.830	0.081	2	05/08/18 19:36	05/09/18 14:12	EPA 3050B	1,6010C	LC
Calcium, Total	1880		mg/kg	8.30	2.91	2	05/08/18 19:36	05/09/18 14:12	EPA 3050B	1,6010C	LC
Chromium, Total	14.5		mg/kg	0.830	0.080	2	05/08/18 19:36	05/09/18 14:12	EPA 3050B	1,6010C	LC
Cobalt, Total	7.61		mg/kg	1.66	0.138	2	05/08/18 19:36	05/09/18 14:12	EPA 3050B	1,6010C	LC
Copper, Total	13.9		mg/kg	0.830	0.214	2	05/08/18 19:36	05/09/18 14:12	EPA 3050B	1,6010C	LC
Iron, Total	13000		mg/kg	4.15	0.750	2	05/08/18 19:36	05/09/18 14:12	EPA 3050B	1,6010C	LC
Lead, Total	13.4		mg/kg	4.15	0.222	2	05/08/18 19:36	05/09/18 14:12	EPA 3050B	1,6010C	LC
Magnesium, Total	3560		mg/kg	8.30	1.28	2	05/08/18 19:36	05/09/18 14:12	EPA 3050B	1,6010C	LC
Manganese, Total	160		mg/kg	0.830	0.132	2	05/08/18 19:36	05/09/18 14:12	EPA 3050B	1,6010C	LC
Mercury, Total	0.042	J	mg/kg	0.067	0.014	1	05/07/18 13:20	05/08/18 19:28	EPA 7471B	1,7471B	EA
Nickel, Total	10.7		mg/kg	2.08	0.201	2	05/08/18 19:36	05/09/18 14:12	EPA 3050B	1,6010C	LC
Potassium, Total	4190		mg/kg	208	12.0	2	05/08/18 19:36	05/09/18 14:12	EPA 3050B	1,6010C	LC
Selenium, Total	0.232	J	mg/kg	1.66	0.214	2	05/08/18 19:36	05/09/18 14:12	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.830	0.235	2	05/08/18 19:36	05/09/18 14:12	EPA 3050B	1,6010C	LC
Sodium, Total	128	J	mg/kg	166	2.62	2	05/08/18 19:36	05/09/18 14:12	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.66	0.262	2	05/08/18 19:36	05/09/18 14:12	EPA 3050B	1,6010C	LC
Vanadium, Total	23.9		mg/kg	0.830	0.168	2	05/08/18 19:36	05/09/18 14:12	EPA 3050B	1,6010C	LC
Zinc, Total	42.7		mg/kg	4.15	0.243	2	05/08/18 19:36	05/09/18 14:12	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	14		mg/kg	0.85	0.85	1		05/09/18 14:12	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-06
Client ID: TP-24_COMP
Sample Location: YONKERS, NY
Date Collected: 05/03/18 08:15
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11600		mg/kg	8.22	2.22	2	05/08/18 19:36	05/09/18 14:29	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.11	0.312	2	05/08/18 19:36	05/09/18 14:29	EPA 3050B	1,6010C	LC
Arsenic, Total	1.58		mg/kg	0.822	0.171	2	05/08/18 19:36	05/09/18 14:29	EPA 3050B	1,6010C	LC
Barium, Total	123		mg/kg	0.822	0.143	2	05/08/18 19:36	05/09/18 14:29	EPA 3050B	1,6010C	LC
Beryllium, Total	0.172	J	mg/kg	0.411	0.027	2	05/08/18 19:36	05/09/18 14:29	EPA 3050B	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.822	0.081	2	05/08/18 19:36	05/09/18 14:29	EPA 3050B	1,6010C	LC
Calcium, Total	2550		mg/kg	8.22	2.88	2	05/08/18 19:36	05/09/18 14:29	EPA 3050B	1,6010C	LC
Chromium, Total	22.5		mg/kg	0.822	0.079	2	05/08/18 19:36	05/09/18 14:29	EPA 3050B	1,6010C	LC
Cobalt, Total	10.0		mg/kg	1.64	0.136	2	05/08/18 19:36	05/09/18 14:29	EPA 3050B	1,6010C	LC
Copper, Total	20.3		mg/kg	0.822	0.212	2	05/08/18 19:36	05/09/18 14:29	EPA 3050B	1,6010C	LC
Iron, Total	17600		mg/kg	4.11	0.742	2	05/08/18 19:36	05/09/18 14:29	EPA 3050B	1,6010C	LC
Lead, Total	31.4		mg/kg	4.11	0.220	2	05/08/18 19:36	05/09/18 14:29	EPA 3050B	1,6010C	LC
Magnesium, Total	4560		mg/kg	8.22	1.26	2	05/08/18 19:36	05/09/18 14:29	EPA 3050B	1,6010C	LC
Manganese, Total	267		mg/kg	0.822	0.131	2	05/08/18 19:36	05/09/18 14:29	EPA 3050B	1,6010C	LC
Mercury, Total	0.126		mg/kg	0.068	0.014	1	05/07/18 13:20	05/08/18 19:34	EPA 7471B	1,7471B	EA
Nickel, Total	14.6		mg/kg	2.05	0.199	2	05/08/18 19:36	05/09/18 14:29	EPA 3050B	1,6010C	LC
Potassium, Total	4890		mg/kg	205	11.8	2	05/08/18 19:36	05/09/18 14:29	EPA 3050B	1,6010C	LC
Selenium, Total	0.378	J	mg/kg	1.64	0.212	2	05/08/18 19:36	05/09/18 14:29	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.822	0.232	2	05/08/18 19:36	05/09/18 14:29	EPA 3050B	1,6010C	LC
Sodium, Total	128	J	mg/kg	164	2.59	2	05/08/18 19:36	05/09/18 14:29	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.64	0.259	2	05/08/18 19:36	05/09/18 14:29	EPA 3050B	1,6010C	LC
Vanadium, Total	33.9		mg/kg	0.822	0.167	2	05/08/18 19:36	05/09/18 14:29	EPA 3050B	1,6010C	LC
Zinc, Total	59.8		mg/kg	4.11	0.241	2	05/08/18 19:36	05/09/18 14:29	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	22		mg/kg	0.86	0.86	1		05/09/18 14:29	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-09
Client ID: TP-25_COMP
Sample Location: YONKERS, NY
Date Collected: 05/03/18 10:00
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10300		mg/kg	8.56	2.31	2	05/08/18 19:36	05/09/18 14:33	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.28	0.325	2	05/08/18 19:36	05/09/18 14:33	EPA 3050B	1,6010C	LC
Arsenic, Total	0.874		mg/kg	0.856	0.178	2	05/08/18 19:36	05/09/18 14:33	EPA 3050B	1,6010C	LC
Barium, Total	100		mg/kg	0.856	0.149	2	05/08/18 19:36	05/09/18 14:33	EPA 3050B	1,6010C	LC
Beryllium, Total	0.094	J	mg/kg	0.428	0.028	2	05/08/18 19:36	05/09/18 14:33	EPA 3050B	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.856	0.084	2	05/08/18 19:36	05/09/18 14:33	EPA 3050B	1,6010C	LC
Calcium, Total	7910		mg/kg	8.56	3.00	2	05/08/18 19:36	05/09/18 14:33	EPA 3050B	1,6010C	LC
Chromium, Total	16.5		mg/kg	0.856	0.082	2	05/08/18 19:36	05/09/18 14:33	EPA 3050B	1,6010C	LC
Cobalt, Total	9.75		mg/kg	1.71	0.142	2	05/08/18 19:36	05/09/18 14:33	EPA 3050B	1,6010C	LC
Copper, Total	28.7		mg/kg	0.856	0.221	2	05/08/18 19:36	05/09/18 14:33	EPA 3050B	1,6010C	LC
Iron, Total	16500		mg/kg	4.28	0.773	2	05/08/18 19:36	05/09/18 14:33	EPA 3050B	1,6010C	LC
Lead, Total	12.1		mg/kg	4.28	0.230	2	05/08/18 19:36	05/09/18 14:33	EPA 3050B	1,6010C	LC
Magnesium, Total	7360		mg/kg	8.56	1.32	2	05/08/18 19:36	05/09/18 14:33	EPA 3050B	1,6010C	LC
Manganese, Total	202		mg/kg	0.856	0.136	2	05/08/18 19:36	05/09/18 14:33	EPA 3050B	1,6010C	LC
Mercury, Total	0.061	J	mg/kg	0.071	0.015	1	05/07/18 13:20	05/08/18 19:36	EPA 7471B	1,7471B	EA
Nickel, Total	11.6		mg/kg	2.14	0.207	2	05/08/18 19:36	05/09/18 14:33	EPA 3050B	1,6010C	LC
Potassium, Total	5620		mg/kg	214	12.3	2	05/08/18 19:36	05/09/18 14:33	EPA 3050B	1,6010C	LC
Selenium, Total	0.300	J	mg/kg	1.71	0.221	2	05/08/18 19:36	05/09/18 14:33	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.856	0.242	2	05/08/18 19:36	05/09/18 14:33	EPA 3050B	1,6010C	LC
Sodium, Total	392		mg/kg	171	2.70	2	05/08/18 19:36	05/09/18 14:33	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.71	0.270	2	05/08/18 19:36	05/09/18 14:33	EPA 3050B	1,6010C	LC
Vanadium, Total	37.2		mg/kg	0.856	0.174	2	05/08/18 19:36	05/09/18 14:33	EPA 3050B	1,6010C	LC
Zinc, Total	44.1		mg/kg	4.28	0.251	2	05/08/18 19:36	05/09/18 14:33	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	16		mg/kg	0.89	0.89	1		05/09/18 14:33	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-12
Client ID: TP-26_COMP
Sample Location: YONKERS, NY
Date Collected: 05/03/18 08:45
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11400		mg/kg	8.44	2.28	2	05/08/18 19:36	05/09/18 14:37	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.22	0.321	2	05/08/18 19:36	05/09/18 14:37	EPA 3050B	1,6010C	LC
Arsenic, Total	1.13		mg/kg	0.844	0.176	2	05/08/18 19:36	05/09/18 14:37	EPA 3050B	1,6010C	LC
Barium, Total	115		mg/kg	0.844	0.147	2	05/08/18 19:36	05/09/18 14:37	EPA 3050B	1,6010C	LC
Beryllium, Total	0.169	J	mg/kg	0.422	0.028	2	05/08/18 19:36	05/09/18 14:37	EPA 3050B	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.844	0.083	2	05/08/18 19:36	05/09/18 14:37	EPA 3050B	1,6010C	LC
Calcium, Total	2260		mg/kg	8.44	2.95	2	05/08/18 19:36	05/09/18 14:37	EPA 3050B	1,6010C	LC
Chromium, Total	15.3		mg/kg	0.844	0.081	2	05/08/18 19:36	05/09/18 14:37	EPA 3050B	1,6010C	LC
Cobalt, Total	10.7		mg/kg	1.69	0.140	2	05/08/18 19:36	05/09/18 14:37	EPA 3050B	1,6010C	LC
Copper, Total	16.6		mg/kg	0.844	0.218	2	05/08/18 19:36	05/09/18 14:37	EPA 3050B	1,6010C	LC
Iron, Total	17600		mg/kg	4.22	0.762	2	05/08/18 19:36	05/09/18 14:37	EPA 3050B	1,6010C	LC
Lead, Total	16.6		mg/kg	4.22	0.226	2	05/08/18 19:36	05/09/18 14:37	EPA 3050B	1,6010C	LC
Magnesium, Total	4760		mg/kg	8.44	1.30	2	05/08/18 19:36	05/09/18 14:37	EPA 3050B	1,6010C	LC
Manganese, Total	262		mg/kg	0.844	0.134	2	05/08/18 19:36	05/09/18 14:37	EPA 3050B	1,6010C	LC
Mercury, Total	0.056	J	mg/kg	0.069	0.015	1	05/07/18 13:20	05/08/18 19:38	EPA 7471B	1,7471B	EA
Nickel, Total	12.1		mg/kg	2.11	0.204	2	05/08/18 19:36	05/09/18 14:37	EPA 3050B	1,6010C	LC
Potassium, Total	5860		mg/kg	211	12.2	2	05/08/18 19:36	05/09/18 14:37	EPA 3050B	1,6010C	LC
Selenium, Total	0.228	J	mg/kg	1.69	0.218	2	05/08/18 19:36	05/09/18 14:37	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.844	0.239	2	05/08/18 19:36	05/09/18 14:37	EPA 3050B	1,6010C	LC
Sodium, Total	120	J	mg/kg	169	2.66	2	05/08/18 19:36	05/09/18 14:37	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.69	0.266	2	05/08/18 19:36	05/09/18 14:37	EPA 3050B	1,6010C	LC
Vanadium, Total	35.5		mg/kg	0.844	0.171	2	05/08/18 19:36	05/09/18 14:37	EPA 3050B	1,6010C	LC
Zinc, Total	53.8		mg/kg	4.22	0.247	2	05/08/18 19:36	05/09/18 14:37	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	15		mg/kg	0.88	0.88	1		05/09/18 14:37	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-15
Client ID: TP-27_COMP
Sample Location: YONKERS, NY
Date Collected: 05/03/18 11:00
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11900		mg/kg	8.32	2.25	2	05/08/18 19:36	05/09/18 16:23	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.16	0.316	2	05/08/18 19:36	05/09/18 16:23	EPA 3050B	1,6010C	LC
Arsenic, Total	0.965		mg/kg	0.832	0.173	2	05/08/18 19:36	05/09/18 16:23	EPA 3050B	1,6010C	LC
Barium, Total	190		mg/kg	0.832	0.145	2	05/08/18 19:36	05/09/18 16:23	EPA 3050B	1,6010C	LC
Beryllium, Total	0.033	J	mg/kg	0.416	0.028	2	05/08/18 19:36	05/09/18 16:23	EPA 3050B	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.832	0.082	2	05/08/18 19:36	05/09/18 16:23	EPA 3050B	1,6010C	LC
Calcium, Total	3820		mg/kg	8.32	2.91	2	05/08/18 19:36	05/09/18 16:23	EPA 3050B	1,6010C	LC
Chromium, Total	31.2		mg/kg	0.832	0.080	2	05/08/18 19:36	05/09/18 16:23	EPA 3050B	1,6010C	LC
Cobalt, Total	13.2		mg/kg	1.66	0.138	2	05/08/18 19:36	05/09/18 16:23	EPA 3050B	1,6010C	LC
Copper, Total	35.4		mg/kg	0.832	0.215	2	05/08/18 19:36	05/09/18 16:23	EPA 3050B	1,6010C	LC
Iron, Total	18600		mg/kg	4.16	0.751	2	05/08/18 19:36	05/09/18 16:23	EPA 3050B	1,6010C	LC
Lead, Total	10.8		mg/kg	4.16	0.223	2	05/08/18 19:36	05/09/18 16:23	EPA 3050B	1,6010C	LC
Magnesium, Total	7790		mg/kg	8.32	1.28	2	05/08/18 19:36	05/09/18 16:23	EPA 3050B	1,6010C	LC
Manganese, Total	229		mg/kg	0.832	0.132	2	05/08/18 19:36	05/09/18 16:23	EPA 3050B	1,6010C	LC
Mercury, Total	0.037	J	mg/kg	0.070	0.015	1	05/07/18 13:20	05/08/18 19:39	EPA 7471B	1,7471B	EA
Nickel, Total	25.3		mg/kg	2.08	0.201	2	05/08/18 19:36	05/09/18 16:23	EPA 3050B	1,6010C	LC
Potassium, Total	5520		mg/kg	208	12.0	2	05/08/18 19:36	05/09/18 16:23	EPA 3050B	1,6010C	LC
Selenium, Total	0.324	J	mg/kg	1.66	0.215	2	05/08/18 19:36	05/09/18 16:23	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.832	0.235	2	05/08/18 19:36	05/09/18 16:23	EPA 3050B	1,6010C	LC
Sodium, Total	210		mg/kg	166	2.62	2	05/08/18 19:36	05/09/18 16:23	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.66	0.262	2	05/08/18 19:36	05/09/18 16:23	EPA 3050B	1,6010C	LC
Vanadium, Total	38.5		mg/kg	0.832	0.169	2	05/08/18 19:36	05/09/18 16:23	EPA 3050B	1,6010C	LC
Zinc, Total	54.3		mg/kg	4.16	0.244	2	05/08/18 19:36	05/09/18 16:23	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	31		mg/kg	0.87	0.87	1		05/09/18 16:23	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-18
Client ID: TP-29_COMP
Sample Location: YONKERS, NY
Date Collected: 05/03/18 11:45
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10300		mg/kg	8.71	2.35	2	05/08/18 19:36	05/09/18 16:27	EPA 3050B	1,6010C	LC
Antimony, Total	ND		mg/kg	4.35	0.331	2	05/08/18 19:36	05/09/18 16:27	EPA 3050B	1,6010C	LC
Arsenic, Total	1.13		mg/kg	0.871	0.181	2	05/08/18 19:36	05/09/18 16:27	EPA 3050B	1,6010C	LC
Barium, Total	137		mg/kg	0.871	0.152	2	05/08/18 19:36	05/09/18 16:27	EPA 3050B	1,6010C	LC
Beryllium, Total	0.096	J	mg/kg	0.435	0.029	2	05/08/18 19:36	05/09/18 16:27	EPA 3050B	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.871	0.085	2	05/08/18 19:36	05/09/18 16:27	EPA 3050B	1,6010C	LC
Calcium, Total	10700		mg/kg	8.71	3.05	2	05/08/18 19:36	05/09/18 16:27	EPA 3050B	1,6010C	LC
Chromium, Total	24.4		mg/kg	0.871	0.084	2	05/08/18 19:36	05/09/18 16:27	EPA 3050B	1,6010C	LC
Cobalt, Total	9.52		mg/kg	1.74	0.144	2	05/08/18 19:36	05/09/18 16:27	EPA 3050B	1,6010C	LC
Copper, Total	19.0		mg/kg	0.871	0.225	2	05/08/18 19:36	05/09/18 16:27	EPA 3050B	1,6010C	LC
Iron, Total	15900		mg/kg	4.35	0.786	2	05/08/18 19:36	05/09/18 16:27	EPA 3050B	1,6010C	LC
Lead, Total	16.1		mg/kg	4.35	0.233	2	05/08/18 19:36	05/09/18 16:27	EPA 3050B	1,6010C	LC
Magnesium, Total	8460		mg/kg	8.71	1.34	2	05/08/18 19:36	05/09/18 16:27	EPA 3050B	1,6010C	LC
Manganese, Total	212		mg/kg	0.871	0.138	2	05/08/18 19:36	05/09/18 16:27	EPA 3050B	1,6010C	LC
Mercury, Total	0.037	J	mg/kg	0.071	0.015	1	05/07/18 13:20	05/08/18 19:41	EPA 7471B	1,7471B	EA
Nickel, Total	16.4		mg/kg	2.18	0.211	2	05/08/18 19:36	05/09/18 16:27	EPA 3050B	1,6010C	LC
Potassium, Total	4520		mg/kg	218	12.5	2	05/08/18 19:36	05/09/18 16:27	EPA 3050B	1,6010C	LC
Selenium, Total	0.400	J	mg/kg	1.74	0.225	2	05/08/18 19:36	05/09/18 16:27	EPA 3050B	1,6010C	LC
Silver, Total	ND		mg/kg	0.871	0.246	2	05/08/18 19:36	05/09/18 16:27	EPA 3050B	1,6010C	LC
Sodium, Total	307		mg/kg	174	2.74	2	05/08/18 19:36	05/09/18 16:27	EPA 3050B	1,6010C	LC
Thallium, Total	ND		mg/kg	1.74	0.274	2	05/08/18 19:36	05/09/18 16:27	EPA 3050B	1,6010C	LC
Vanadium, Total	32.1		mg/kg	0.871	0.177	2	05/08/18 19:36	05/09/18 16:27	EPA 3050B	1,6010C	LC
Zinc, Total	51.8		mg/kg	4.35	0.255	2	05/08/18 19:36	05/09/18 16:27	EPA 3050B	1,6010C	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	24		mg/kg	0.91	0.91	1		05/09/18 16:27	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03,06,09,12,15,18 Batch: WG1113289-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	05/07/18 13:20	05/08/18 18:55	1,7471B	EA

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03,06,09,12,15,18 Batch: WG1113817-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	05/08/18 19:36	05/09/18 14:04	1,6010C	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	05/08/18 19:36	05/09/18 14:04	1,6010C	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	05/08/18 19:36	05/09/18 14:04	1,6010C	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	05/08/18 19:36	05/09/18 14:04	1,6010C	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	05/08/18 19:36	05/09/18 14:04	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	05/08/18 19:36	05/09/18 14:04	1,6010C	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	05/08/18 19:36	05/09/18 14:04	1,6010C	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	05/08/18 19:36	05/09/18 14:04	1,6010C	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	05/08/18 19:36	05/09/18 14:04	1,6010C	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	05/08/18 19:36	05/09/18 14:04	1,6010C	LC
Iron, Total	ND		mg/kg	2.00	0.361	1	05/08/18 19:36	05/09/18 14:04	1,6010C	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	05/08/18 19:36	05/09/18 14:04	1,6010C	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	05/08/18 19:36	05/09/18 14:04	1,6010C	LC
Manganese, Total	ND		mg/kg	0.400	0.064	1	05/08/18 19:36	05/09/18 14:04	1,6010C	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	05/08/18 19:36	05/09/18 14:04	1,6010C	LC
Potassium, Total	ND		mg/kg	100	5.76	1	05/08/18 19:36	05/09/18 14:04	1,6010C	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	05/08/18 19:36	05/09/18 14:04	1,6010C	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	05/08/18 19:36	05/09/18 14:04	1,6010C	LC
Sodium, Total	ND		mg/kg	80.0	1.26	1	05/08/18 19:36	05/09/18 14:04	1,6010C	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	05/08/18 19:36	05/09/18 14:04	1,6010C	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	05/08/18 19:36	05/09/18 14:04	1,6010C	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	05/08/18 19:36	05/09/18 14:04	1,6010C	LC

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815928

Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18 Batch: WG1113289-2 SRM Lot Number: D098-540								
Mercury, Total	99		-		50-149	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815928

Report Date: 05/10/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18 Batch: WG1113817-2 SRM Lot Number: D098-540					
Aluminum, Total	94	-	47-153	-	
Antimony, Total	168	-	6-194	-	
Arsenic, Total	108	-	83-117	-	
Barium, Total	98	-	82-118	-	
Beryllium, Total	98	-	83-117	-	
Cadmium, Total	99	-	82-117	-	
Calcium, Total	95	-	81-118	-	
Chromium, Total	97	-	83-119	-	
Cobalt, Total	100	-	84-116	-	
Copper, Total	107	-	84-116	-	
Iron, Total	117	-	60-140	-	
Lead, Total	98	-	82-117	-	
Magnesium, Total	86	-	76-124	-	
Manganese, Total	90	-	82-118	-	
Nickel, Total	100	-	82-117	-	
Potassium, Total	102	-	69-131	-	
Selenium, Total	106	-	78-121	-	
Silver, Total	102	-	80-120	-	
Sodium, Total	103	-	74-126	-	
Thallium, Total	100	-	80-119	-	
Vanadium, Total	104	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815928

Report Date: 05/10/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18 Batch: WG1113817-2 SRM Lot Number: D098-540					
Zinc, Total	98	-	81-119	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18 QC Batch ID: WG1113289-3 QC Sample: L1814522-07 Client ID: MS Sample												
Mercury, Total	0.065J	0.138	0.245	**177**	Q	-	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18	QC Batch ID: WG1113817-3				QC Sample: L1815928-03			Client ID: TP-23_COMP		
Aluminum, Total	8560	165	10400	**1120**	Q	-	-	75-125	-	20
Antimony, Total	ND	41.2	35.4	86		-	-	75-125	-	20
Arsenic, Total	1.05	9.9	10.6	96		-	-	75-125	-	20
Barium, Total	90.9	165	247	95		-	-	75-125	-	20
Beryllium, Total	0.10J	4.12	3.40	82		-	-	75-125	-	20
Cadmium, Total	ND	4.2	3.16	75		-	-	75-125	-	20
Calcium, Total	1880	825	3650	**215**	Q	-	-	75-125	-	20
Chromium, Total	14.5	16.5	28.4	84		-	-	75-125	-	20
Cobalt, Total	7.61	41.2	42.2	84		-	-	75-125	-	20
Copper, Total	13.9	20.6	42.5	**139**	Q	-	-	75-125	-	20
Iron, Total	13000	82.5	16200	**3880**	Q	-	-	75-125	-	20
Lead, Total	13.4	42	56.4	102		-	-	75-125	-	20
Magnesium, Total	3560	825	5040	**179**	Q	-	-	75-125	-	20
Manganese, Total	160.	41.2	241	**196**	Q	-	-	75-125	-	20
Nickel, Total	10.7	41.2	46.1	86		-	-	75-125	-	20
Potassium, Total	4190	825	5820	**198**	Q	-	-	75-125	-	20
Selenium, Total	0.232J	9.9	9.65	98		-	-	75-125	-	20
Silver, Total	ND	24.7	23.0	93		-	-	75-125	-	20
Sodium, Total	128.J	825	900	109		-	-	75-125	-	20
Thallium, Total	ND	9.9	7.12	**72**	Q	-	-	75-125	-	20
Vanadium, Total	23.9	41.2	62.5	94		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18 QC Batch ID: WG1113817-3 QC Sample: L1815928-03 Client ID: TP-23_COMP									
Zinc, Total	42.7	41.2	91.9	119	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18 QC Batch ID: WG1113289-4 QC Sample: L1814522-07 Client ID: DUP Sample						
Mercury, Total	0.065J	0.045J	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18 QC Batch ID: WG1113817-4 QC Sample: L1815928-03 Client ID: TP-23_COMP						
Aluminum, Total	8560	9990	mg/kg	15		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	1.05	0.936	mg/kg	11		20
Barium, Total	90.9	109	mg/kg	18		20
Beryllium, Total	0.10J	0.107J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Calcium, Total	1880	1830	mg/kg	3		20
Chromium, Total	14.5	16.9	mg/kg	15		20
Cobalt, Total	7.61	9.69	mg/kg	**24**	Q	20
Copper, Total	13.9	16.9	mg/kg	19		20
Iron, Total	13000	16500	mg/kg	**24**	Q	20
Lead, Total	13.4	15.9	mg/kg	17		20
Magnesium, Total	3560	4320	mg/kg	19		20
Manganese, Total	160.	185	mg/kg	14		20
Nickel, Total	10.7	13.9	mg/kg	**26**	Q	20
Potassium, Total	4190	4900	mg/kg	16		20
Selenium, Total	0.232J	0.312J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	128.J	129J	mg/kg	NC		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,12,15,18 QC Batch ID: WG1113817-4 QC Sample: L1815928-03 Client ID: TP-23_COMP					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	23.9	28.9	mg/kg	19	20
Zinc, Total	42.7	50.7	mg/kg	17	20

INORGANICS
&
MISCELLANEOUS

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-01
Client ID: TP-23_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/03/18 07:30
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.0		%	0.100	NA	1	-	05/04/18 13:19	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-02
Client ID: TP-23_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/03/18 07:35
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.5		%	0.100	NA	1	-	05/04/18 13:19	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-03
Client ID: TP-23_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 07:40
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.0		%	0.100	NA	1	-	05/04/18 13:19	121,2540G	RI
Cyanide, Total	ND		mg/kg	0.98	0.21	1	05/04/18 17:45	05/07/18 12:59	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.851	0.170	1	05/05/18 03:25	05/07/18 21:30	1,7196A	JD

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-04
Client ID: TP-24_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/03/18 08:00
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.6		%	0.100	NA	1	-	05/04/18 13:19	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-05
Client ID: TP-24_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/03/18 08:05
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.5		%	0.100	NA	1	-	05/04/18 13:19	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-06
Client ID: TP-24_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 08:15
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.7		%	0.100	NA	1	-	05/04/18 13:19	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/04/18 17:45	05/07/18 13:00	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.863	0.172	1	05/05/18 03:25	05/07/18 21:30	1,7196A	JD

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-07
Client ID: TP-25_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/03/18 09:50
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.4		%	0.100	NA	1	-	05/04/18 13:19	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-08
Client ID: TP-25_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/03/18 09:55
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.2		%	0.100	NA	1	-	05/04/18 13:19	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-09
Client ID: TP-25_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 10:00
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.6		%	0.100	NA	1	-	05/04/18 13:19	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/04/18 17:45	05/07/18 13:01	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.893	0.178	1	05/05/18 03:25	05/07/18 21:30	1,7196A	JD

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-10
Client ID: TP-26_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/03/18 08:35
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.0		%	0.100	NA	1	-	05/04/18 13:19	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-11
Client ID: TP-26_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/03/18 08:40
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.8		%	0.100	NA	1	-	05/04/18 13:19	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-12
Client ID: TP-26_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 08:45
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.0		%	0.100	NA	1	-	05/04/18 13:19	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/04/18 17:45	05/07/18 13:02	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.879	0.176	1	05/05/18 03:25	05/07/18 21:30	1,7196A	JD

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-13
Client ID: TP-27_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/03/18 10:50
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.2		%	0.100	NA	1	-	05/04/18 13:19	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-14
Client ID: TP-27_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/03/18 10:55
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.1		%	0.100	NA	1	-	05/04/18 13:19	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-15
Client ID: TP-27_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 11:00
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.3		%	0.100	NA	1	-	05/04/18 13:19	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.21	1	05/04/18 17:45	05/07/18 13:03	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.867	0.173	1	05/05/18 03:25	05/07/18 21:30	1,7196A	JD

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-16
Client ID: TP-29_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/03/18 11:35
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.6		%	0.100	NA	1	-	05/04/18 13:19	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-17
Client ID: TP-29_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/03/18 11:40
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.2		%	0.100	NA	1	-	05/04/18 13:19	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

SAMPLE RESULTS

Lab ID: L1815928-18
Client ID: TP-29_COMP
Sample Location: YONKERS, NY

Date Collected: 05/03/18 11:45
Date Received: 05/03/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.2		%	0.100	NA	1	-	05/04/18 13:19	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	05/04/18 17:45	05/07/18 13:04	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.907	0.181	1	05/05/18 03:25	05/07/18 21:30	1,7196A	JD

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 03,06,09,12,15,18 Batch: WG1112689-1										
Cyanide, Total	ND		mg/kg	0.95	0.20	1	05/04/18 17:45	05/07/18 12:33	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 03,06,09,12,15,18 Batch: WG1112867-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	05/05/18 03:25	05/07/18 21:30	1,7196A	JD

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1815928

Report Date: 05/10/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03,06,09,12,15,18 Batch: WG1112689-2 WG1112689-3								
Cyanide, Total	**51**	Q	87		80-120	**50**	Q	35
General Chemistry - Westborough Lab Associated sample(s): 03,06,09,12,15,18 Batch: WG1112867-2								
Chromium, Hexavalent	**76**	Q	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03,06,09,12,15,18 QC Batch ID: WG1112689-4 WG1112689-5 QC Sample: L1815863-07 Client ID: MS Sample												
Cyanide, Total	ND	10	9.4	90		9.5	93		75-125	1		35
General Chemistry - Westborough Lab Associated sample(s): 03,06,09,12,15,18 QC Batch ID: WG1112867-4 QC Sample: L1815928-09 Client ID: TP-25_COMP												
Chromium, Hexavalent	ND	905	930	103		-	-		75-125	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-18 QC Batch ID: WG1112710-1 QC Sample: L1815928-01 Client ID: TP-23_GRAB-1						
Solids, Total	95.0	94.7	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 03,06,09,12,15,18 QC Batch ID: WG1112867-6 QC Sample: L1815928-09 Client ID: TP-25_COMP						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815928-01A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815928-01B	Vial water preserved	A	NA		4.5	Y	Absent	04-MAY-18 06:08	NYTCL-8260HLW(14)
L1815928-01C	Vial water preserved	A	NA		4.5	Y	Absent	04-MAY-18 06:08	NYTCL-8260HLW(14)
L1815928-01D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815928-02A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815928-02B	Vial water preserved	A	NA		4.5	Y	Absent	04-MAY-18 06:08	NYTCL-8260HLW(14)
L1815928-02C	Vial water preserved	A	NA		4.5	Y	Absent	04-MAY-18 06:08	NYTCL-8260HLW(14)
L1815928-02D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815928-03A	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815928-03B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815928-03C	Glass 120ml/4oz unpreserved	A	NA		4.5	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1815928-03D	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1815928-04A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815928-04B	Vial water preserved	A	NA		4.5	Y	Absent	04-MAY-18 06:08	NYTCL-8260HLW(14)
L1815928-04C	Vial water preserved	A	NA		4.5	Y	Absent	04-MAY-18 06:08	NYTCL-8260HLW(14)
L1815928-04D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815928-05A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815928-05B	Vial water preserved	A	NA		4.5	Y	Absent	04-MAY-18 06:08	NYTCL-8260HLW(14)
L1815928-05C	Vial water preserved	A	NA		4.5	Y	Absent	04-MAY-18 06:08	NYTCL-8260HLW(14)
L1815928-05D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815928-06A	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815928-06B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815928-06C	Glass 120ml/4oz unpreserved	A	NA		4.5	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1815928-06D	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1815928-07A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815928-07B	Vial water preserved	A	NA		4.5	Y	Absent	04-MAY-18 06:08	NYTCL-8260HLW(14)
L1815928-07C	Vial water preserved	A	NA		4.5	Y	Absent	04-MAY-18 06:08	NYTCL-8260HLW(14)
L1815928-07D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815928-08A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815928-08B	Vial water preserved	A	NA		4.5	Y	Absent	04-MAY-18 06:08	NYTCL-8260HLW(14)
L1815928-08C	Vial water preserved	A	NA		4.5	Y	Absent	04-MAY-18 06:08	NYTCL-8260HLW(14)
L1815928-08D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815928-09A	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815928-09B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815928-09C	Glass 120ml/4oz unpreserved	A	NA		4.5	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1815928-09D	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1815928-10A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815928-10B	Vial water preserved	A	NA		4.5	Y	Absent	04-MAY-18 06:08	NYTCL-8260HLW(14)
L1815928-10C	Vial water preserved	A	NA		4.5	Y	Absent	04-MAY-18 06:08	NYTCL-8260HLW(14)
L1815928-10D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815928-11A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815928-11B	Vial water preserved	A	NA		4.5	Y	Absent	04-MAY-18 06:08	NYTCL-8260HLW(14)
L1815928-11C	Vial water preserved	A	NA		4.5	Y	Absent	04-MAY-18 06:08	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815928-11D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815928-12A	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815928-12B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815928-12C	Glass 120ml/4oz unpreserved	A	NA		4.5	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1815928-12D	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1815928-13A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815928-13B	Vial water preserved	A	NA		4.5	Y	Absent	04-MAY-18 06:08	NYTCL-8260HLW(14)
L1815928-13C	Vial water preserved	A	NA		4.5	Y	Absent	04-MAY-18 06:08	NYTCL-8260HLW(14)
L1815928-13D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815928-14A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815928-14B	Vial water preserved	A	NA		4.5	Y	Absent	04-MAY-18 06:08	NYTCL-8260HLW(14)
L1815928-14C	Vial water preserved	A	NA		4.5	Y	Absent	04-MAY-18 06:08	NYTCL-8260HLW(14)
L1815928-14D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815928-15A	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815928-15B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815928-15C	Glass 120ml/4oz unpreserved	A	NA		4.5	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1815928-15D	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1815928-16A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815928-16B	Vial water preserved	A	NA		4.5	Y	Absent	04-MAY-18 06:08	NYTCL-8260HLW(14)
L1815928-16C	Vial water preserved	A	NA		4.5	Y	Absent	04-MAY-18 06:08	NYTCL-8260HLW(14)
L1815928-16D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815928-17A	Vial MeOH preserved	A	NA		4.5	Y	Absent		NYTCL-8260HLW(14)
L1815928-17B	Vial water preserved	A	NA		4.5	Y	Absent	04-MAY-18 06:08	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1815928
Report Date: 05/10/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1815928-17C	Vial water preserved	A	NA		4.5	Y	Absent	04-MAY-18 06:08	NYTCL-8260HLW(14)
L1815928-17D	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815928-18A	Plastic 2oz unpreserved for TS	A	NA		4.5	Y	Absent		TS(7)
L1815928-18B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1815928-18C	Glass 120ml/4oz unpreserved	A	NA		4.5	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1815928-18D	Glass 500ml/16oz unpreserved	A	NA		4.5	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1815928-19A	Vial HCl preserved	A	NA		4.5	Y	Absent		NYTCL-8260(14)
L1815928-19B	Vial HCl preserved	A	NA		4.5	Y	Absent		NYTCL-8260(14)

*Values in parentheses indicate holding time in days

Project Name:	FORMER BICC	**Lab Number:**	L1815928
Project Number:	056970006	**Report Date:**	05/10/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER BICC	**Lab Number:**	L1815928
Project Number:	056970006	**Report Date:**	05/10/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1815928
Report Date: 05/10/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 2

Date Rec'd in Lab: 5/3/18

ALPHA Job #: L1815928

Client Information

Client: PS-S Engineering PC
Address: Larkin Plaza 2nd Fl.
Yonkers, NY, 10701
Phone: 914-509-8600
Fax:
Email: supervisor@pseds.com

Project Information

Project Name: Former BICC
Project Location: Yonkers, NY
Project #: 05690006
(Use Project name as Project #)
Project Manager: Scott Caporizzo
ALPHAQuote #:

Turn-Around Time

Standard: X
Rush (only if pre approved):
Due Date:
# of Days:

These samples have been previously analyzed by Alpha:

Other project specific requirements/comments:

Please specify Metals or TAL.

Deliverables

- ASP-A
- ASP-B: X
- EQuIS (1 File)
- EQuIS (4 File): X
- Other

Regulatory Requirement

- NY TOGS
- NY Part 375: X
- AWQ Standards
- NY CP-51
- NY Restricted Use: X
- Other
- NY Unrestricted Use
- NYC Sewer Discharge

Billing Information

- Same as Client Info: X

PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.

Disposal Facility:
- NJ
- NY
- Other:

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TS-SM 2540	NYTCL-8260	NYTCL-8270	Pest/Herbs/TCN	Metals 6020/HG	Hex Cr 7196	PCB, Tr. Cr.	Total # Bottles
1815928-01	TP-23_Grab-1	5/3/18	0730	Soil	SC	X	X						
-02	TP-23_Grab-2		0735			X	X						
-03	TP-23_COMP		0740			X		X	X	X	X	X	
-04	TP-24_Grab-1		0800			X	X						
-05	TP-24_Grab-2		0805			X	X						
-06	TP-24_COMP		0815			X		X	X	X	X	X	
-07	TP-25_Grab-1		0950			X	X						
-08	TP-25_Grab-2		0955			X	X						
-09	TP-25_COMP		1000			X		X	X	X	X	X	
-10	TP-26_Grab-1		0825			X	X						

Sample Filtration
- Done
- Lab to do

Preservation
- Lab to do

(Please Specify below)

Sample Specific Comments

Container Type	P	V	A	A	A	A	A						
Preservative	A	I-F Zn Ac	A	A	A	A	A						

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	5/3/18 1400	Paul Mazella	5/3/18 1437
Paul Mazella	5/3/18 1657		5/3/18 2345

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Client Information
Client: P&S Eng. PC
Address: 1 Larkin Plaza 2nd Fl
Yonkers, NY 10701
Phone: 914-509-8600
Fax:
Email: scapizzo@pandsusa.com

Project Information
Project Name: Former BTLC
Project Location: Yonkers, NY
Project # 056970000
(Use Project name as Project #)
Project Manager: Scott Capizzo
ALPHAQuote #:

Turn-Around Time
Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

These samples have been previously analyzed by Alpha [ ]

Other project specific requirements/comments:

Please specify Metals or TAL.

Deliverables
[ ] ASP-A [X] ASP-B
[ ] EQuIS (1 File) [X] EQuIS (4 File)
[ ] Other

Regulatory Requirement
[ ] NY TOGS [X] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[X] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Billing Information
[X] Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TS SM2540G	VOC-8260	SVOC-8270	PEST/Herbs/PCB	Metals-6020/7470	Hex Cr EPA 7196	Trivalent Cr.	Sample Specific Comments
15938-71	TP-26-Grab-2	5/3/18	0840	Soil	SC	X	X						
-72	TP-26-COMP		0845			X		X	X	X	X	X	
-73	TP-27-Grab-1		1050			X	X						
-74	TP-27-Grab-2		1055			X	X						
-75	TP-27-COMP		1100			X	-	X	X	X	X	X	
-76	TP-29-Grab-1		1135			X	X						
-77	TP-29-Grab-2		1140			X	X						
-78	TP-29-COMP		1145			X		X	X	X	X	X	
-79	TB-05032018			TB			X						

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	P	V	A	A	A	A	A	A
Preservative	A	1-F 2-HCl	A	A	A	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
	5/3/18 1400	Paul Mansfield	5/3/18 1432
Paul Mansfield	5/3/18 1657		5/3/18 1657
			5/3/18 2345

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

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ANALYTICAL REPORT

Lab Number:	L1816155
Client:	PS&S Engineering, Inc. 1 Larkin Plaza Second Floor Yonkers, NY 10701
ATTN:	Scott Caporizzo
Phone:	(914) 266-3722
Project Name:	FORMER BICC
Project Number:	056970006
Report Date:	05/11/18

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1816155-01	TP-30_GRAB-1	SOIL	YONKERS, NY	05/04/18 09:15	05/04/18
L1816155-02	TP-30_GRAB-2	SOIL	YONKERS, NY	05/04/18 09:20	05/04/18
L1816155-03	TP-30_COMP	SOIL	YONKERS, NY	05/04/18 09:30	05/04/18
L1816155-04	TP-31_GRAB-1	SOIL	YONKERS, NY	05/04/18 07:45	05/04/18
L1816155-05	TP-31_GRAB-2	SOIL	YONKERS, NY	05/04/18 07:50	05/04/18
L1816155-06	TP-31_COMP	SOIL	YONKERS, NY	05/04/18 08:00	05/04/18
L1816155-07	TP-32_GRAB-1	SOIL	YONKERS, NY	05/04/18 09:45	05/04/18
L1816155-08	TP-32_GRAB-2	SOIL	YONKERS, NY	05/04/18 09:55	05/04/18
L1816155-09	TP-32_COMP	SOIL	YONKERS, NY	05/04/18 10:00	05/04/18
L1816155-10	TP-X-050418-G	SOIL	YONKERS, NY	05/04/18 00:00	05/04/18
L1816155-11	TP-X-050415-C	SOIL	YONKERS, NY	05/04/18 00:00	05/04/18
L1816155-12	TRIP BLANK	WATER	YONKERS, NY	05/01/18 00:00	05/04/18
L1816155-13	FB02	WATER	YONKERS, NY	05/04/18 10:25	05/04/18

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
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Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
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Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Pesticides

L1816155-13:The Field Blank has a concentration above the reporting limit for trans-Chlordane. Since the associated field sample concentration is greater than 10x the concentration for this analyte, no corrective action is required.

Total Metals

L1816155-03, -06, -09 and -11: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

L1816155-13: The Field Blank has a concentration above the reporting limit for Calcium. The results were confirmed.

Cyanide, Total

The WG1113153-2/-3 LCS/LCSD recoveries (27%/62%), associated with L1816155-03,-06,-09, and -11, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported. In addition, the WG1113153-2/-3 LCS/LCSD RPD (83%), is above the acceptance criteria.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Cristin Walker

Title: Technical Director/Representative Date: 05/11/18

ORGANICS

VOLATILES

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-01
Client ID: TP-30_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/04/18 09:15
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/09/18 15:37
Analyst: PK
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.29	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.37	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.33	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.45	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.38	1
Bromodichloromethane	ND		ug/kg	1.1	0.33	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.25	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.22	1
1,1-Dichloropropene	ND		ug/kg	5.4	0.36	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.32	1
Benzene	ND		ug/kg	1.1	0.21	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.18	1
Chloromethane	ND		ug/kg	5.4	0.47	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.34	1
Chloroethane	ND		ug/kg	2.2	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.40	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.26	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-01
Client ID: TP-30_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/04/18 09:15
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.1	0.33	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.4	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.16	1
p/m-Xylene	ND		ug/kg	2.2	0.38	1
o-Xylene	ND		ug/kg	2.2	0.37	1
Xylenes, Total	ND		ug/kg	2.2	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.37	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.26	1
Dibromomethane	ND		ug/kg	11	0.26	1
Styrene	ND		ug/kg	2.2	0.43	1
Dichlorodifluoromethane	ND		ug/kg	11	0.54	1
Acetone	10	J	ug/kg	11	2.5	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.75	1
Vinyl acetate	ND		ug/kg	11	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.19	1
2-Hexanone	ND		ug/kg	11	0.72	1
Bromochloromethane	ND		ug/kg	5.4	0.39	1
2,2-Dichloropropane	ND		ug/kg	5.4	0.49	1
1,2-Dibromoethane	ND		ug/kg	4.3	0.22	1
1,3-Dichloropropane	ND		ug/kg	5.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.4	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.25	1
sec-Butylbenzene	ND		ug/kg	1.1	0.24	1
tert-Butylbenzene	ND		ug/kg	5.4	0.27	1
o-Chlorotoluene	ND		ug/kg	5.4	0.24	1
p-Chlorotoluene	ND		ug/kg	5.4	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	0.43	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.38	1
Isopropylbenzene	ND		ug/kg	1.1	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	ND		ug/kg	5.4	0.15	1
Acrylonitrile	ND		ug/kg	11	0.56	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-01
Client ID: TP-30_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/04/18 09:15
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	0.20	1
1,4-Dioxane	ND		ug/kg	43	16.	1
p-Diethylbenzene	ND		ug/kg	4.3	4.3	1
p-Ethyltoluene	ND		ug/kg	4.3	0.25	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.3	0.17	1
Ethyl ether	ND		ug/kg	5.4	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	0.42	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	99		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-02
Client ID: TP-30_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/04/18 09:20
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/09/18 16:04
Analyst: PK
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.33	1
Chloroform	ND		ug/kg	1.8	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.43	1
1,2-Dichloropropane	ND		ug/kg	4.3	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.39	1
Tetrachloroethene	ND		ug/kg	1.2	0.37	1
Chlorobenzene	ND		ug/kg	1.2	0.43	1
Trichlorofluoromethane	ND		ug/kg	6.2	0.52	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.43	1
Bromodichloromethane	ND		ug/kg	1.2	0.38	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.29	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.26	1
1,1-Dichloropropene	ND		ug/kg	6.2	0.41	1
Bromoform	ND		ug/kg	5.0	0.29	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.37	1
Benzene	ND		ug/kg	1.2	0.24	1
Toluene	ND		ug/kg	1.8	0.24	1
Ethylbenzene	0.25	J	ug/kg	1.2	0.21	1
Chloromethane	ND		ug/kg	6.2	0.54	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	ND		ug/kg	2.5	0.39	1
Chloroethane	ND		ug/kg	2.5	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.46	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.30	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-02
Client ID: TP-30_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/04/18 09:20
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.2	0.37	1
1,2-Dichlorobenzene	ND		ug/kg	6.2	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	6.2	0.27	1
1,4-Dichlorobenzene	ND		ug/kg	6.2	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.19	1
p/m-Xylene	ND		ug/kg	2.5	0.43	1
o-Xylene	ND		ug/kg	2.5	0.42	1
Xylenes, Total	ND		ug/kg	2.5	0.42	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.42	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.30	1
Dibromomethane	ND		ug/kg	12	0.30	1
Styrene	ND		ug/kg	2.5	0.50	1
Dichlorodifluoromethane	ND		ug/kg	12	0.62	1
Acetone	24		ug/kg	12	2.8	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	ND		ug/kg	12	0.85	1
Vinyl acetate	ND		ug/kg	12	0.19	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.22	1
2-Hexanone	ND		ug/kg	12	0.82	1
Bromochloromethane	ND		ug/kg	6.2	0.44	1
2,2-Dichloropropane	ND		ug/kg	6.2	0.56	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.25	1
1,3-Dichloropropane	ND		ug/kg	6.2	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.39	1
Bromobenzene	ND		ug/kg	6.2	0.27	1
n-Butylbenzene	ND		ug/kg	1.2	0.28	1
sec-Butylbenzene	ND		ug/kg	1.2	0.27	1
tert-Butylbenzene	ND		ug/kg	6.2	0.30	1
o-Chlorotoluene	ND		ug/kg	6.2	0.27	1
p-Chlorotoluene	ND		ug/kg	6.2	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	0.49	1
Hexachlorobutadiene	ND		ug/kg	6.2	0.43	1
Isopropylbenzene	ND		ug/kg	1.2	0.24	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.25	1
Naphthalene	0.38	J	ug/kg	6.2	0.17	1
Acrylonitrile	ND		ug/kg	12	0.64	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-02
Client ID: TP-30_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/04/18 09:20
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.27	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.2	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.2	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.2	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.2	0.23	1
1,4-Dioxane	ND		ug/kg	50	18.	1
p-Diethylbenzene	ND		ug/kg	5.0	5.0	1
p-Ethyltoluene	ND		ug/kg	5.0	0.29	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.0	0.19	1
Ethyl ether	ND		ug/kg	6.2	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	0.48	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	98		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-04
Client ID: TP-31_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/04/18 07:45
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/09/18 16:31
Analyst: PK
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10	1.7	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.28	1
Chloroform	ND		ug/kg	1.6	0.38	1
Carbon tetrachloride	ND		ug/kg	1.0	0.36	1
1,2-Dichloropropane	ND		ug/kg	3.6	0.24	1
Dibromochloromethane	ND		ug/kg	1.0	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.32	1
Tetrachloroethene	ND		ug/kg	1.0	0.31	1
Chlorobenzene	ND		ug/kg	1.0	0.36	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.43	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.36	1
Bromodichloromethane	ND		ug/kg	1.0	0.32	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.22	1
1,1-Dichloropropene	ND		ug/kg	5.2	0.34	1
Bromoform	ND		ug/kg	4.2	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.31	1
Benzene	ND		ug/kg	1.0	0.20	1
Toluene	ND		ug/kg	1.6	0.20	1
Ethylbenzene	ND		ug/kg	1.0	0.18	1
Chloromethane	ND		ug/kg	5.2	0.45	1
Bromomethane	ND		ug/kg	2.1	0.35	1
Vinyl chloride	ND		ug/kg	2.1	0.33	1
Chloroethane	ND		ug/kg	2.1	0.33	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.39	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.25	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-04
Client ID: TP-31_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/04/18 07:45
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.0	0.31	1
1,2-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	5.2	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.16	1
p/m-Xylene	ND		ug/kg	2.1	0.36	1
o-Xylene	ND		ug/kg	2.1	0.35	1
Xylenes, Total	ND		ug/kg	2.1	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.36	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.25	1
Dibromomethane	ND		ug/kg	10	0.25	1
Styrene	ND		ug/kg	2.1	0.42	1
Dichlorodifluoromethane	ND		ug/kg	10	0.52	1
Acetone	30		ug/kg	10	2.4	1
Carbon disulfide	ND		ug/kg	10	1.1	1
2-Butanone	130		ug/kg	10	0.72	1
Vinyl acetate	ND		ug/kg	10	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.25	1
1,2,3-Trichloropropane	ND		ug/kg	10	0.18	1
2-Hexanone	ND		ug/kg	10	0.69	1
Bromochloromethane	ND		ug/kg	5.2	0.37	1
2,2-Dichloropropane	ND		ug/kg	5.2	0.47	1
1,2-Dibromoethane	ND		ug/kg	4.2	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.33	1
Bromobenzene	ND		ug/kg	5.2	0.23	1
n-Butylbenzene	ND		ug/kg	1.0	0.24	1
sec-Butylbenzene	ND		ug/kg	1.0	0.22	1
tert-Butylbenzene	ND		ug/kg	5.2	0.26	1
o-Chlorotoluene	ND		ug/kg	5.2	0.23	1
p-Chlorotoluene	ND		ug/kg	5.2	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.2	0.41	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.36	1
Isopropylbenzene	ND		ug/kg	1.0	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.21	1
Naphthalene	ND		ug/kg	5.2	0.14	1
Acrylonitrile	ND		ug/kg	10	0.53	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-04
Client ID: TP-31_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/04/18 07:45
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.2	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.2	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.2	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.2	0.19	1
1,4-Dioxane	ND		ug/kg	42	15.	1
p-Diethylbenzene	ND		ug/kg	4.2	4.2	1
p-Ethyltoluene	ND		ug/kg	4.2	0.24	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.2	0.16	1
Ethyl ether	ND		ug/kg	5.2	0.27	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	0.41	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	99		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-05
Client ID: TP-31_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/04/18 07:50
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/09/18 16:58
Analyst: PK
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	10	1.7	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.28	1
Chloroform	ND		ug/kg	1.6	0.39	1
Carbon tetrachloride	ND		ug/kg	1.0	0.36	1
1,2-Dichloropropane	ND		ug/kg	3.7	0.24	1
Dibromochloromethane	ND		ug/kg	1.0	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.33	1
Tetrachloroethene	ND		ug/kg	1.0	0.32	1
Chlorobenzene	ND		ug/kg	1.0	0.36	1
Trichlorofluoromethane	ND		ug/kg	5.2	0.44	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.37	1
Bromodichloromethane	ND		ug/kg	1.0	0.32	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.22	1
1,1-Dichloropropene	ND		ug/kg	5.2	0.34	1
Bromoform	ND		ug/kg	4.2	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.31	1
Benzene	ND		ug/kg	1.0	0.20	1
Toluene	ND		ug/kg	1.6	0.20	1
Ethylbenzene	ND		ug/kg	1.0	0.18	1
Chloromethane	ND		ug/kg	5.2	0.46	1
Bromomethane	ND		ug/kg	2.1	0.35	1
Vinyl chloride	ND		ug/kg	2.1	0.33	1
Chloroethane	ND		ug/kg	2.1	0.33	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.39	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.25	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-05
Client ID: TP-31_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/04/18 07:50
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.0	0.32	1
1,2-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
1,3-Dichlorobenzene	ND		ug/kg	5.2	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	5.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.16	1
p/m-Xylene	ND		ug/kg	2.1	0.37	1
o-Xylene	ND		ug/kg	2.1	0.35	1
Xylenes, Total	ND		ug/kg	2.1	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.36	1
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.25	1
Dibromomethane	ND		ug/kg	10	0.25	1
Styrene	ND		ug/kg	2.1	0.42	1
Dichlorodifluoromethane	ND		ug/kg	10	0.52	1
Acetone	39		ug/kg	10	2.4	1
Carbon disulfide	ND		ug/kg	10	1.2	1
2-Butanone	3.4	J	ug/kg	10	0.72	1
Vinyl acetate	ND		ug/kg	10	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	10	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	10	0.18	1
2-Hexanone	ND		ug/kg	10	0.70	1
Bromochloromethane	ND		ug/kg	5.2	0.37	1
2,2-Dichloropropane	ND		ug/kg	5.2	0.47	1
1,2-Dibromoethane	ND		ug/kg	4.2	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.33	1
Bromobenzene	ND		ug/kg	5.2	0.23	1
n-Butylbenzene	ND		ug/kg	1.0	0.24	1
sec-Butylbenzene	ND		ug/kg	1.0	0.23	1
tert-Butylbenzene	ND		ug/kg	5.2	0.26	1
o-Chlorotoluene	ND		ug/kg	5.2	0.23	1
p-Chlorotoluene	ND		ug/kg	5.2	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.2	0.42	1
Hexachlorobutadiene	ND		ug/kg	5.2	0.36	1
Isopropylbenzene	ND		ug/kg	1.0	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.21	1
Naphthalene	0.50	J	ug/kg	5.2	0.14	1
Acrylonitrile	ND		ug/kg	10	0.54	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-05
Client ID: TP-31_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/04/18 07:50
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.2	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.2	0.22	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.2	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.2	0.20	1
1,4-Dioxane	ND		ug/kg	42	15.	1
p-Diethylbenzene	ND		ug/kg	4.2	4.2	1
p-Ethyltoluene	ND		ug/kg	4.2	0.24	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.2	0.16	1
Ethyl ether	ND		ug/kg	5.2	0.27	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	0.41	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-07
Client ID: TP-32_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/04/18 09:45
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/09/18 17:25
Analyst: PK
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.0	1.5	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.24	1
Chloroform	ND		ug/kg	1.4	0.34	1
Carbon tetrachloride	ND		ug/kg	0.90	0.31	1
1,2-Dichloropropane	ND		ug/kg	3.2	0.21	1
Dibromochloromethane	ND		ug/kg	0.90	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.28	1
Tetrachloroethene	ND		ug/kg	0.90	0.27	1
Chlorobenzene	ND		ug/kg	0.90	0.32	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.38	1
1,2-Dichloroethane	ND		ug/kg	0.90	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.90	0.32	1
Bromodichloromethane	ND		ug/kg	0.90	0.28	1
trans-1,3-Dichloropropene	ND		ug/kg	0.90	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	0.90	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.90	0.19	1
1,1-Dichloropropene	ND		ug/kg	4.5	0.30	1
Bromoform	ND		ug/kg	3.6	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.90	0.27	1
Benzene	ND		ug/kg	0.90	0.17	1
Toluene	ND		ug/kg	1.4	0.18	1
Ethylbenzene	ND		ug/kg	0.90	0.15	1
Chloromethane	ND		ug/kg	4.5	0.39	1
Bromomethane	ND		ug/kg	1.8	0.31	1
Vinyl chloride	ND		ug/kg	1.8	0.28	1
Chloroethane	ND		ug/kg	1.8	0.29	1
1,1-Dichloroethene	ND		ug/kg	0.90	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.22	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-07
Client ID: TP-32_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/04/18 09:45
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.90	0.27	1
1,2-Dichlorobenzene	ND		ug/kg	4.5	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	4.5	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	4.5	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.14	1
p/m-Xylene	ND		ug/kg	1.8	0.32	1
o-Xylene	ND		ug/kg	1.8	0.31	1
Xylenes, Total	ND		ug/kg	1.8	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	0.90	0.31	1
1,2-Dichloroethene, Total	ND		ug/kg	0.90	0.22	1
Dibromomethane	ND		ug/kg	9.0	0.22	1
Styrene	ND		ug/kg	1.8	0.36	1
Dichlorodifluoromethane	ND		ug/kg	9.0	0.45	1
Acetone	12		ug/kg	9.0	2.1	1
Carbon disulfide	ND		ug/kg	9.0	1.0	1
2-Butanone	ND		ug/kg	9.0	0.62	1
Vinyl acetate	ND		ug/kg	9.0	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	9.0	0.22	1
1,2,3-Trichloropropane	ND		ug/kg	9.0	0.16	1
2-Hexanone	ND		ug/kg	9.0	0.60	1
Bromochloromethane	ND		ug/kg	4.5	0.32	1
2,2-Dichloropropane	ND		ug/kg	4.5	0.41	1
1,2-Dibromoethane	ND		ug/kg	3.6	0.18	1
1,3-Dichloropropane	ND		ug/kg	4.5	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.90	0.29	1
Bromobenzene	ND		ug/kg	4.5	0.20	1
n-Butylbenzene	ND		ug/kg	0.90	0.21	1
sec-Butylbenzene	ND		ug/kg	0.90	0.20	1
tert-Butylbenzene	ND		ug/kg	4.5	0.22	1
o-Chlorotoluene	ND		ug/kg	4.5	0.20	1
p-Chlorotoluene	ND		ug/kg	4.5	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.5	0.36	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.32	1
Isopropylbenzene	ND		ug/kg	0.90	0.18	1
p-Isopropyltoluene	ND		ug/kg	0.90	0.18	1
Naphthalene	ND		ug/kg	4.5	0.12	1
Acrylonitrile	ND		ug/kg	9.0	0.46	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-07
Client ID: TP-32_GRAB-1
Sample Location: YONKERS, NY
Date Collected: 05/04/18 09:45
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.90	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.5	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.5	0.19	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.5	0.14	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.5	0.17	1
1,4-Dioxane	ND		ug/kg	36	13.	1
p-Diethylbenzene	ND		ug/kg	3.6	3.6	1
p-Ethyltoluene	ND		ug/kg	3.6	0.21	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.6	0.14	1
Ethyl ether	ND		ug/kg	4.5	0.24	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.5	0.36	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-08
Client ID: TP-32_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/04/18 09:55
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/10/18 10:07
Analyst: JC
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.9	1.6	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.27	1
Chloroform	ND		ug/kg	1.5	0.37	1
Carbon tetrachloride	ND		ug/kg	0.99	0.34	1
1,2-Dichloropropane	ND		ug/kg	3.5	0.22	1
Dibromochloromethane	ND		ug/kg	0.99	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31	1
Tetrachloroethene	ND		ug/kg	0.99	0.30	1
Chlorobenzene	ND		ug/kg	0.99	0.34	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.41	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.99	0.35	1
Bromodichloromethane	ND		ug/kg	0.99	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	0.99	0.23	1
1,3-Dichloropropene, Total	ND		ug/kg	0.99	0.20	1
1,1-Dichloropropene	ND		ug/kg	4.9	0.32	1
Bromoform	ND		ug/kg	4.0	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.99	0.29	1
Benzene	ND		ug/kg	0.99	0.19	1
Toluene	ND		ug/kg	1.5	0.19	1
Ethylbenzene	ND		ug/kg	0.99	0.17	1
Chloromethane	ND		ug/kg	4.9	0.43	1
Bromomethane	ND		ug/kg	2.0	0.33	1
Vinyl chloride	ND		ug/kg	2.0	0.31	1
Chloroethane	ND		ug/kg	2.0	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-08
Client ID: TP-32_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/04/18 09:55
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.99	0.30	1
1,2-Dichlorobenzene	ND		ug/kg	4.9	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	4.9	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	4.9	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.15	1
p/m-Xylene	ND		ug/kg	2.0	0.35	1
o-Xylene	ND		ug/kg	2.0	0.33	1
Xylenes, Total	ND		ug/kg	2.0	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.34	1
1,2-Dichloroethene, Total	ND		ug/kg	0.99	0.24	1
Dibromomethane	ND		ug/kg	9.9	0.24	1
Styrene	ND		ug/kg	2.0	0.40	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.49	1
Acetone	12		ug/kg	9.9	2.3	1
Carbon disulfide	ND		ug/kg	9.9	1.1	1
2-Butanone	ND		ug/kg	9.9	0.68	1
Vinyl acetate	ND		ug/kg	9.9	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	9.9	0.18	1
2-Hexanone	ND		ug/kg	9.9	0.66	1
Bromochloromethane	ND		ug/kg	4.9	0.35	1
2,2-Dichloropropane	ND		ug/kg	4.9	0.44	1
1,2-Dibromoethane	ND		ug/kg	4.0	0.20	1
1,3-Dichloropropane	ND		ug/kg	4.9	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.99	0.31	1
Bromobenzene	ND		ug/kg	4.9	0.22	1
n-Butylbenzene	ND		ug/kg	0.99	0.22	1
sec-Butylbenzene	ND		ug/kg	0.99	0.21	1
tert-Butylbenzene	ND		ug/kg	4.9	0.24	1
o-Chlorotoluene	ND		ug/kg	4.9	0.22	1
p-Chlorotoluene	ND		ug/kg	4.9	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.9	0.39	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.34	1
Isopropylbenzene	ND		ug/kg	0.99	0.19	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.20	1
Naphthalene	ND		ug/kg	4.9	0.14	1
Acrylonitrile	ND		ug/kg	9.9	0.51	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-08
Client ID: TP-32_GRAB-2
Sample Location: YONKERS, NY
Date Collected: 05/04/18 09:55
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.99	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.9	0.25	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.9	0.21	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.9	0.16	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.9	0.18	1
1,4-Dioxane	ND		ug/kg	40	14.	1
p-Diethylbenzene	ND		ug/kg	4.0	4.0	1
p-Ethyltoluene	ND		ug/kg	4.0	0.23	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.15	1
Ethyl ether	ND		ug/kg	4.9	0.26	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	0.39	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	99		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-10
Client ID: TP-X-050418-G
Sample Location: YONKERS, NY

Date Collected: 05/04/18 00:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 05/10/18 10:33
Analyst: JC
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.29	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.37	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.25	1
Dibromochloromethane	ND		ug/kg	1.1	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.33	1
Chlorobenzene	ND		ug/kg	1.1	0.38	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.45	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.38	1
Bromodichloromethane	ND		ug/kg	1.1	0.33	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.25	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.22	1
1,1-Dichloropropene	ND		ug/kg	5.4	0.36	1
Bromoform	ND		ug/kg	4.3	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.32	1
Benzene	ND		ug/kg	1.1	0.21	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.18	1
Chloromethane	ND		ug/kg	5.4	0.47	1
Bromomethane	ND		ug/kg	2.2	0.37	1
Vinyl chloride	ND		ug/kg	2.2	0.34	1
Chloroethane	ND		ug/kg	2.2	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.40	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.26	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-10
Client ID: TP-X-050418-G
Sample Location: YONKERS, NY
Date Collected: 05/04/18 00:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.1	0.33	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.4	0.24	1
1,4-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.17	1
p/m-Xylene	ND		ug/kg	2.2	0.38	1
o-Xylene	ND		ug/kg	2.2	0.37	1
Xylenes, Total	ND		ug/kg	2.2	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.37	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.26	1
Dibromomethane	ND		ug/kg	11	0.26	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	11	0.54	1
Acetone	63		ug/kg	11	2.5	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	5.3	J	ug/kg	11	0.75	1
Vinyl acetate	ND		ug/kg	11	0.17	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.19	1
2-Hexanone	ND		ug/kg	11	0.72	1
Bromochloromethane	ND		ug/kg	5.4	0.39	1
2,2-Dichloropropane	ND		ug/kg	5.4	0.49	1
1,2-Dibromoethane	ND		ug/kg	4.3	0.22	1
1,3-Dichloropropane	ND		ug/kg	5.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.4	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.25	1
sec-Butylbenzene	ND		ug/kg	1.1	0.24	1
tert-Butylbenzene	ND		ug/kg	5.4	0.27	1
o-Chlorotoluene	ND		ug/kg	5.4	0.24	1
p-Chlorotoluene	ND		ug/kg	5.4	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	0.43	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.38	1
Isopropylbenzene	ND		ug/kg	1.1	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	0.71	J	ug/kg	5.4	0.15	1
Acrylonitrile	ND		ug/kg	11	0.56	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-10
Client ID: TP-X-050418-G
Sample Location: YONKERS, NY
Date Collected: 05/04/18 00:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	0.20	1
1,4-Dioxane	ND		ug/kg	43	16.	1
p-Diethylbenzene	ND		ug/kg	4.3	4.3	1
p-Ethyltoluene	ND		ug/kg	4.3	0.25	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.3	0.17	1
Ethyl ether	ND		ug/kg	5.4	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	0.42	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	95		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-12
Client ID: TRIP BLANK
Sample Location: YONKERS, NY

Date Collected: 05/01/18 00:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/09/18 16:57
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-12
Client ID: TRIP BLANK
Sample Location: YONKERS, NY
Date Collected: 05/01/18 00:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-12
Client ID: TRIP BLANK
Sample Location: YONKERS, NY
Date Collected: 05/01/18 00:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	96		70-130

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-13
Client ID: FB02
Sample Location: YONKERS, NY

Date Collected: 05/04/18 10:25
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 05/09/18 17:22
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-13
Client ID: FB02
Sample Location: YONKERS, NY
Date Collected: 05/04/18 10:25
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	3.0	J	ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-13
Client ID: FB02
Sample Location: YONKERS, NY
Date Collected: 05/04/18 10:25
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	ND		ug/l	2.0	0.70	1
p-Ethyltoluene	ND		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	96		70-130

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/09/18 08:35
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02,04-05,07 Batch: WG1114095-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	0.44	J	ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/09/18 08:35
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02,04-05,07 Batch: WG1114095-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/09/18 08:35
Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02,04-05,07 Batch: WG1114095-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	96		70-130

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/09/18 16:07
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12-13 Batch: WG1114474-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/09/18 16:07
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12-13 Batch: WG1114474-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/09/18 16:07
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 12-13 Batch: WG1114474-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	97		70-130

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/10/18 08:47
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 08,10 Batch: WG1114490-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	1.0	J	ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/10/18 08:47
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 08,10 Batch: WG1114490-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/10/18 08:47
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 08,10 Batch: WG1114490-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Tentatively Identified Compounds			
Total TIC Compounds	2.32	J	ug/kg
Unknown	2.32	J	ug/kg

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 05/10/18 08:47
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 08,10 Batch: WG1114490-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	88		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02,04-05,07 Batch: WG1114095-3 WG1114095-4								
Methylene chloride	101		98		70-130	3		30
1,1-Dichloroethane	104		101		70-130	3		30
Chloroform	101		99		70-130	2		30
Carbon tetrachloride	102		99		70-130	3		30
1,2-Dichloropropane	104		103		70-130	1		30
Dibromochloromethane	88		88		70-130	0		30
1,1,2-Trichloroethane	95		93		70-130	2		30
Tetrachloroethene	106		103		70-130	3		30
Chlorobenzene	100		98		70-130	2		30
Trichlorofluoromethane	95		90		70-139	5		30
1,2-Dichloroethane	94		92		70-130	2		30
1,1,1-Trichloroethane	102		98		70-130	4		30
Bromodichloromethane	100		99		70-130	1		30
trans-1,3-Dichloropropene	89		90		70-130	1		30
cis-1,3-Dichloropropene	106		103		70-130	3		30
1,1-Dichloropropene	107		103		70-130	4		30
Bromoform	85		84		70-130	1		30
1,1,2,2-Tetrachloroethane	98		96		70-130	2		30
Benzene	104		101		70-130	3		30
Toluene	103		100		70-130	3		30
Ethylbenzene	103		101		70-130	2		30
Chloromethane	100		96		52-130	4		30
Bromomethane	97		92		57-147	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1816155

Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02,04-05,07 Batch: WG1114095-3 WG1114095-4								
Vinyl chloride	102		96		67-130	6		30
Chloroethane	93		92		50-151	1		30
1,1-Dichloroethene	106		102		65-135	4		30
trans-1,2-Dichloroethene	105		103		70-130	2		30
Trichloroethene	103		101		70-130	2		30
1,2-Dichlorobenzene	101		96		70-130	5		30
1,3-Dichlorobenzene	102		98		70-130	4		30
1,4-Dichlorobenzene	98		95		70-130	3		30
Methyl tert butyl ether	100		97		66-130	3		30
p/m-Xylene	106		103		70-130	3		30
o-Xylene	104		101		70-130	3		30
cis-1,2-Dichloroethene	107		104		70-130	3		30
Dibromomethane	93		91		70-130	2		30
Styrene	104		102		70-130	2		30
Dichlorodifluoromethane	87		84		30-146	4		30
Acetone	100		98		54-140	2		30
Carbon disulfide	97		93		59-130	4		30
2-Butanone	86		85		70-130	1		30
Vinyl acetate	92		89		70-130	3		30
4-Methyl-2-pentanone	94		93		70-130	1		30
1,2,3-Trichloropropane	97		96		68-130	1		30
2-Hexanone	90		88		70-130	2		30
Bromochloromethane	108		104		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1816155

Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02,04-05,07 Batch: WG1114095-3 WG1114095-4								
2,2-Dichloropropane	104		101		70-130	3		30
1,2-Dibromoethane	94		92		70-130	2		30
1,3-Dichloropropane	102		100		69-130	2		30
1,1,1,2-Tetrachloroethane	100		99		70-130	1		30
Bromobenzene	101		98		70-130	3		30
n-Butylbenzene	104		101		70-130	3		30
sec-Butylbenzene	102		98		70-130	4		30
tert-Butylbenzene	103		99		70-130	4		30
o-Chlorotoluene	99		96		70-130	3		30
p-Chlorotoluene	102		97		70-130	5		30
1,2-Dibromo-3-chloropropane	87		83		68-130	5		30
Hexachlorobutadiene	103		100		67-130	3		30
Isopropylbenzene	103		99		70-130	4		30
p-Isopropyltoluene	105		101		70-130	4		30
Naphthalene	98		98		70-130	0		30
Acrylonitrile	96		95		70-130	1		30
n-Propylbenzene	104		100		70-130	4		30
1,2,3-Trichlorobenzene	101		98		70-130	3		30
1,2,4-Trichlorobenzene	106		102		70-130	4		30
1,3,5-Trimethylbenzene	102		98		70-130	4		30
1,2,4-Trimethylbenzene	103		99		70-130	4		30
1,4-Dioxane	100		100		65-136	0		30
p-Diethylbenzene	106		102		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1816155

Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02,04-05,07 Batch: WG1114095-3 WG1114095-4								
p-Ethyltoluene	105		102		70-130	3		30
1,2,4,5-Tetramethylbenzene	102		99		70-130	3		30
Ethyl ether	94		91		67-130	3		30
trans-1,4-Dichloro-2-butene	93		90		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	92		92		70-130
Toluene-d8	99		100		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	97		98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12-13 Batch: WG1114474-3 WG1114474-4								
Methylene chloride	88		90		70-130	2		20
1,1-Dichloroethane	89		92		70-130	3		20
Chloroform	90		91		70-130	1		20
Carbon tetrachloride	93		97		63-132	4		20
1,2-Dichloropropane	89		91		70-130	2		20
Dibromochloromethane	92		91		63-130	1		20
1,1,2-Trichloroethane	98		96		70-130	2		20
Tetrachloroethene	98		100		70-130	2		20
Chlorobenzene	93		96		75-130	3		20
Trichlorofluoromethane	96		100		62-150	4		20
1,2-Dichloroethane	91		90		70-130	1		20
1,1,1-Trichloroethane	91		96		67-130	5		20
Bromodichloromethane	90		90		67-130	0		20
trans-1,3-Dichloropropene	93		92		70-130	1		20
cis-1,3-Dichloropropene	90		90		70-130	0		20
1,1-Dichloropropene	92		97		70-130	5		20
Bromoform	92		90		54-136	2		20
1,1,2,2-Tetrachloroethane	94		93		67-130	1		20
Benzene	87		91		70-130	4		20
Toluene	93		96		70-130	3		20
Ethylbenzene	92		96		70-130	4		20
Chloromethane	89		92		64-130	3		20
Bromomethane	89		96		39-139	8		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1816155

Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12-13 Batch: WG1114474-3 WG1114474-4								
Vinyl chloride	93		97		55-140	4		20
Chloroethane	96		100		55-138	4		20
1,1-Dichloroethene	92		96		61-145	4		20
trans-1,2-Dichloroethene	91		96		70-130	5		20
Trichloroethene	86		90		70-130	5		20
1,2-Dichlorobenzene	95		97		70-130	2		20
1,3-Dichlorobenzene	95		98		70-130	3		20
1,4-Dichlorobenzene	94		97		70-130	3		20
Methyl tert butyl ether	91		89		63-130	2		20
p/m-Xylene	95		100		70-130	5		20
o-Xylene	95		100		70-130	5		20
cis-1,2-Dichloroethene	88		92		70-130	4		20
Dibromomethane	90		89		70-130	1		20
1,2,3-Trichloropropane	91		90		64-130	1		20
Acrylonitrile	94		91		70-130	3		20
Styrene	95		100		70-130	5		20
Dichlorodifluoromethane	96		100		36-147	4		20
Acetone	87		87		58-148	0		20
Carbon disulfide	93		96		51-130	3		20
2-Butanone	96		95		63-138	1		20
Vinyl acetate	98		96		70-130	2		20
4-Methyl-2-pentanone	89		90		59-130	1		20
2-Hexanone	92		89		57-130	3		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12-13 Batch: WG1114474-3 WG1114474-4								
Bromochloromethane	91		90		70-130	1		20
2,2-Dichloropropane	94		98		63-133	4		20
1,2-Dibromoethane	93		93		70-130	0		20
1,3-Dichloropropane	94		93		70-130	1		20
1,1,1,2-Tetrachloroethane	92		95		64-130	3		20
Bromobenzene	93		96		70-130	3		20
n-Butylbenzene	96		100		53-136	4		20
sec-Butylbenzene	95		100		70-130	5		20
tert-Butylbenzene	94		99		70-130	5		20
o-Chlorotoluene	93		97		70-130	4		20
p-Chlorotoluene	93		96		70-130	3		20
1,2-Dibromo-3-chloropropane	89		89		41-144	0		20
Hexachlorobutadiene	100		110		63-130	10		20
Isopropylbenzene	94		100		70-130	6		20
p-Isopropyltoluene	96		100		70-130	4		20
Naphthalene	94		98		70-130	4		20
n-Propylbenzene	95		100		69-130	5		20
1,2,3-Trichlorobenzene	100		110		70-130	10		20
1,2,4-Trichlorobenzene	97		100		70-130	3		20
1,3,5-Trimethylbenzene	94		99		64-130	5		20
1,2,4-Trimethylbenzene	94		98		70-130	4		20
1,4-Dioxane	**50**	Q	96		56-162	**63**	Q	20
p-Diethylbenzene	94		100		70-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1816155

Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 12-13 Batch: WG1114474-3 WG1114474-4								
p-Ethyltoluene	95		100		70-130	5		20
1,2,4,5-Tetramethylbenzene	94		99		70-130	5		20
Ethyl ether	95		97		59-134	2		20
trans-1,4-Dichloro-2-butene	84		87		70-130	4		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	102		98		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	97		98		70-130
Dibromofluoromethane	98		97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1816155

Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 08,10 Batch: WG1114490-3 WG1114490-4								
Methylene chloride	94		104		70-130	10		30
1,1-Dichloroethane	94		105		70-130	11		30
Chloroform	94		105		70-130	11		30
Carbon tetrachloride	92		103		70-130	11		30
1,2-Dichloropropane	97		108		70-130	11		30
Dibromochloromethane	86		95		70-130	10		30
1,1,2-Trichloroethane	90		99		70-130	10		30
Tetrachloroethene	97		106		70-130	9		30
Chlorobenzene	94		103		70-130	9		30
Trichlorofluoromethane	83		95		70-139	13		30
1,2-Dichloroethane	90		100		70-130	11		30
1,1,1-Trichloroethane	92		102		70-130	10		30
Bromodichloromethane	94		106		70-130	12		30
trans-1,3-Dichloropropene	87		97		70-130	11		30
cis-1,3-Dichloropropene	99		110		70-130	11		30
1,1-Dichloropropene	96		106		70-130	10		30
Bromoform	81		92		70-130	13		30
1,1,2,2-Tetrachloroethane	96		104		70-130	8		30
Benzene	94		106		70-130	12		30
Toluene	94		103		70-130	9		30
Ethylbenzene	94		104		70-130	10		30
Chloromethane	90		98		52-130	9		30
Bromomethane	85		100		57-147	16		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1816155

Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 08,10 Batch: WG1114490-3 WG1114490-4								
Vinyl chloride	90		98		67-130	9		30
Chloroethane	79		87		50-151	10		30
1,1-Dichloroethene	98		104		65-135	6		30
trans-1,2-Dichloroethene	96		107		70-130	11		30
Trichloroethene	95		104		70-130	9		30
1,2-Dichlorobenzene	94		104		70-130	10		30
1,3-Dichlorobenzene	94		105		70-130	11		30
1,4-Dichlorobenzene	91		100		70-130	9		30
Methyl tert butyl ether	98		106		66-130	8		30
p/m-Xylene	97		106		70-130	9		30
o-Xylene	97		106		70-130	9		30
cis-1,2-Dichloroethene	99		110		70-130	11		30
Dibromomethane	90		99		70-130	10		30
Styrene	98		108		70-130	10		30
Dichlorodifluoromethane	80		89		30-146	11		30
Acetone	102		107		54-140	5		30
Carbon disulfide	86		95		59-130	10		30
2-Butanone	100		106		70-130	6		30
Vinyl acetate	87		94		70-130	8		30
4-Methyl-2-pentanone	93		99		70-130	6		30
1,2,3-Trichloropropane	93		102		68-130	9		30
2-Hexanone	91		92		70-130	1		30
Bromochloromethane	102		114		70-130	11		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1816155

Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 08,10 Batch: WG1114490-3 WG1114490-4								
2,2-Dichloropropane	94		103		70-130	9		30
1,2-Dibromoethane	91		99		70-130	8		30
1,3-Dichloropropane	98		106		69-130	8		30
1,1,1,2-Tetrachloroethane	95		106		70-130	11		30
Bromobenzene	96		106		70-130	10		30
n-Butylbenzene	92		103		70-130	11		30
sec-Butylbenzene	92		101		70-130	9		30
tert-Butylbenzene	92		102		70-130	10		30
o-Chlorotoluene	90		100		70-130	11		30
p-Chlorotoluene	92		102		70-130	10		30
1,2-Dibromo-3-chloropropane	84		93		68-130	10		30
Hexachlorobutadiene	94		105		67-130	11		30
Isopropylbenzene	92		102		70-130	10		30
p-Isopropyltoluene	94		103		70-130	9		30
Naphthalene	97		108		70-130	11		30
Acrylonitrile	95		102		70-130	7		30
n-Propylbenzene	92		102		70-130	10		30
1,2,3-Trichlorobenzene	97		108		70-130	11		30
1,2,4-Trichlorobenzene	100		110		70-130	10		30
1,3,5-Trimethylbenzene	92		103		70-130	11		30
1,2,4-Trimethylbenzene	94		104		70-130	10		30
1,4-Dioxane	104		112		65-136	7		30
p-Diethylbenzene	95		105		70-130	10		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1816155

Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 08,10 Batch: WG1114490-3 WG1114490-4								
p-Ethyltoluene	94		105		70-130	11		30
1,2,4,5-Tetramethylbenzene	96		106		70-130	10		30
Ethyl ether	90		99		67-130	10		30
trans-1,4-Dichloro-2-butene	89		97		70-130	9		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		92		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	99		101		70-130
Dibromofluoromethane	97		99		70-130

SEMIVOLATILES

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-03
Client ID: TP-30_COMP
Sample Location: YONKERS, NY

Date Collected: 05/04/18 09:30
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/10/18 04:56
Analyst: RC
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/08/18 17:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	110		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	190		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: FORMER BICC **Lab Number:** L1816155

Project Number: 056970006 **Report Date:** 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-03 Date Collected: 05/04/18 09:30

Client ID: TP-30_COMP Date Received: 05/04/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	67	J	ug/kg	110	21.	1
Benzo(a)pyrene	54	J	ug/kg	150	45.	1
Benzo(b)fluoranthene	73	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	65	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	36	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	59	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	37	J	ug/kg	150	26.	1
Pyrene	110		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-03
Client ID: TP-30_COMP
Sample Location: YONKERS, NY
Date Collected: 05/04/18 09:30
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	ND		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	74		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-06
Client ID: TP-31_COMP
Sample Location: YONKERS, NY

Date Collected: 05/04/18 08:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/10/18 05:22
Analyst: RC
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/08/18 17:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	100	J	ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	920		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	43	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	120	J	ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-06
Client ID: TP-31_COMP
Sample Location: YONKERS, NY
Date Collected: 05/04/18 08:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	510		ug/kg	110	20.	1
Benzo(a)pyrene	420		ug/kg	140	44.	1
Benzo(b)fluoranthene	580		ug/kg	110	30.	1
Benzo(k)fluoranthene	170		ug/kg	110	29.	1
Chrysene	500		ug/kg	110	19.	1
Acenaphthylene	53	J	ug/kg	140	28.	1
Anthracene	250		ug/kg	110	35.	1
Benzo(ghi)perylene	240		ug/kg	140	21.	1
Fluorene	110	J	ug/kg	180	18.	1
Phenanthrene	840		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	68	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	260		ug/kg	140	25.	1
Pyrene	870		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	63	J	ug/kg	180	17.	1
2-Methylnaphthalene	58	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	78	J	ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-06
Client ID: TP-31_COMP
Sample Location: YONKERS, NY
Date Collected: 05/04/18 08:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	120	J	ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	83		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-09
Client ID: TP-32_COMP
Sample Location: YONKERS, NY

Date Collected: 05/04/18 10:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/10/18 04:03
Analyst: RC
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/08/18 17:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	130		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	78	J	ug/kg	180	61.	1
Butyl benzyl phthalate	84	J	ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: FORMER BICC **Lab Number:** L1816155

Project Number: 056970006 **Report Date:** 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-09 Date Collected: 05/04/18 10:00

Client ID: TP-32_COMP Date Received: 05/04/18

Sample Location: YONKERS, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	67	J	ug/kg	110	20.	1
Benzo(a)pyrene	49	J	ug/kg	140	43.	1
Benzo(b)fluoranthene	69	J	ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	58	J	ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	28	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	49	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	28	J	ug/kg	140	25.	1
Pyrene	120		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-09
Client ID: TP-32_COMP
Sample Location: YONKERS, NY
Date Collected: 05/04/18 10:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	100		10-136
4-Terphenyl-d14	91		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-11
Client ID: TP-X-050415-C
Sample Location: YONKERS, NY

Date Collected: 05/04/18 00:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 05/10/18 04:29
Analyst: RC
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/08/18 17:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	55	J	ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	900		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	37	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	120	J	ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-11
Client ID: TP-X-050415-C
Sample Location: YONKERS, NY
Date Collected: 05/04/18 00:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	450		ug/kg	110	20.	1
Benzo(a)pyrene	420		ug/kg	140	44.	1
Benzo(b)fluoranthene	570		ug/kg	110	30.	1
Benzo(k)fluoranthene	160		ug/kg	110	29.	1
Chrysene	480		ug/kg	110	19.	1
Acenaphthylene	78	J	ug/kg	140	28.	1
Anthracene	170		ug/kg	110	35.	1
Benzo(ghi)perylene	270		ug/kg	140	21.	1
Fluorene	97	J	ug/kg	180	18.	1
Phenanthrene	660		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	72	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	280		ug/kg	140	25.	1
Pyrene	840		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	34	J	ug/kg	180	17.	1
2-Methylnaphthalene	59	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	71	J	ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-11
Client ID: TP-X-050415-C
Sample Location: YONKERS, NY
Date Collected: 05/04/18 00:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	55.	1
Carbazole	46	J	ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	102		23-120
2-Fluorobiphenyl	93		30-120
2,4,6-Tribromophenol	93		10-136
4-Terphenyl-d14	100		18-120

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-13
Client ID: FB02
Sample Location: YONKERS, NY

Date Collected: 05/04/18 10:25
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 05/09/18 23:12
Analyst: RC

Extraction Method: EPA 3510C
Extraction Date: 05/07/18 00:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/l	2.0	0.59	1
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Hexachlorobenzene	ND		ug/l	2.0	0.58	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
2-Chloronaphthalene	ND		ug/l	2.0	0.64	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
Fluoranthene	ND		ug/l	2.0	0.57	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorobutadiene	ND		ug/l	2.0	0.72	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Hexachloroethane	ND		ug/l	2.0	0.68	1
Isophorone	ND		ug/l	5.0	0.60	1
Naphthalene	ND		ug/l	2.0	0.68	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-13
Client ID: FB02
Sample Location: YONKERS, NY
Date Collected: 05/04/18 10:25
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Benzo(a)anthracene	ND		ug/l	2.0	0.61	1
Benzo(a)pyrene	ND		ug/l	2.0	0.54	1
Benzo(b)fluoranthene	ND		ug/l	2.0	0.64	1
Benzo(k)fluoranthene	ND		ug/l	2.0	0.60	1
Chrysene	ND		ug/l	2.0	0.54	1
Acenaphthylene	ND		ug/l	2.0	0.66	1
Anthracene	ND		ug/l	2.0	0.64	1
Benzo(ghi)perylene	ND		ug/l	2.0	0.61	1
Fluorene	ND		ug/l	2.0	0.62	1
Phenanthrene	ND		ug/l	2.0	0.61	1
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.55	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.71	1
Pyrene	ND		ug/l	2.0	0.57	1
Biphenyl	ND		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1
Dibenzofuran	ND		ug/l	2.0	0.66	1
2-Methylnaphthalene	ND		ug/l	2.0	0.72	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Pentachlorophenol	ND		ug/l	10	3.4	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-13
Client ID: FB02
Sample Location: YONKERS, NY
Date Collected: 05/04/18 10:25
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	1.0	J	ug/l	2.0	0.72	1
Carbazole	ND		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	100		23-120
2-Fluorobiphenyl	92		15-120
2,4,6-Tribromophenol	110		10-120
4-Terphenyl-d14	105		41-149

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/09/18 00:36
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 05/07/18 00:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 13 Batch: WG1113148-1					
Acenaphthene	ND		ug/l	2.0	0.59
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66
Hexachlorobenzene	ND		ug/l	2.0	0.58
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67
2-Chloronaphthalene	ND		ug/l	2.0	0.64
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1
Fluoranthene	ND		ug/l	2.0	0.57
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63
Hexachlorobutadiene	ND		ug/l	2.0	0.72
Hexachlorocyclopentadiene	ND		ug/l	20	7.8
Hexachloroethane	ND		ug/l	2.0	0.68
Isophorone	ND		ug/l	5.0	0.60
Naphthalene	ND		ug/l	2.0	0.68
Nitrobenzene	ND		ug/l	2.0	0.75
NDPA/DPA	ND		ug/l	2.0	0.64
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91
Butyl benzyl phthalate	ND		ug/l	5.0	1.3
Di-n-butylphthalate	ND		ug/l	5.0	0.69
Di-n-octylphthalate	ND		ug/l	5.0	1.1
Diethyl phthalate	ND		ug/l	5.0	0.63

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Method Blank Analysis
Batch Quality Control

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Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 05/07/18 00:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 13 Batch: WG1113148-1					
Dimethyl phthalate	ND		ug/l	5.0	0.65
Benzo(a)anthracene	ND		ug/l	2.0	0.61
Benzo(a)pyrene	ND		ug/l	2.0	0.54
Benzo(b)fluoranthene	ND		ug/l	2.0	0.64
Benzo(k)fluoranthene	ND		ug/l	2.0	0.60
Chrysene	ND		ug/l	2.0	0.54
Acenaphthylene	ND		ug/l	2.0	0.66
Anthracene	ND		ug/l	2.0	0.64
Benzo(ghi)perylene	ND		ug/l	2.0	0.61
Fluorene	ND		ug/l	2.0	0.62
Phenanthrene	ND		ug/l	2.0	0.61
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.55
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.71
Pyrene	ND		ug/l	2.0	0.57
Biphenyl	ND		ug/l	2.0	0.76
4-Chloroaniline	ND		ug/l	5.0	0.63
2-Nitroaniline	ND		ug/l	5.0	1.1
3-Nitroaniline	ND		ug/l	5.0	1.2
4-Nitroaniline	ND		ug/l	5.0	1.3
Dibenzofuran	ND		ug/l	2.0	0.66
2-Methylnaphthalene	ND		ug/l	2.0	0.72
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67
Acetophenone	ND		ug/l	5.0	0.85
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68
p-Chloro-m-cresol	ND		ug/l	2.0	0.62
2-Chlorophenol	ND		ug/l	2.0	0.63
2,4-Dichlorophenol	ND		ug/l	5.0	0.77
2,4-Dimethylphenol	ND		ug/l	5.0	1.6
2-Nitrophenol	ND		ug/l	10	1.5

Project Name: FORMER BICC
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Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/09/18 00:36
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 05/07/18 00:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 13 Batch: WG1113148-1					
4-Nitrophenol	ND		ug/l	10	1.8
2,4-Dinitrophenol	ND		ug/l	20	5.5
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1
Pentachlorophenol	ND		ug/l	10	3.4
Phenol	ND		ug/l	5.0	1.9
2-Methylphenol	ND		ug/l	5.0	1.0
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72
Benzoic Acid	ND		ug/l	50	13.
Benzyl Alcohol	ND		ug/l	2.0	0.72
Carbazole	ND		ug/l	2.0	0.63
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/l		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	91		15-120
2,4,6-Tribromophenol	91		10-120
4-Terphenyl-d14	102		41-149

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/09/18 21:52
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 05/08/18 16:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03,06,09,11 Batch: WG1113793-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	140	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	18.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	170	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	140	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	140	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/09/18 21:52
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 05/08/18 16:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03,06,09,11 Batch: WG1113793-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	39.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	22.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	37.
4-Chloroaniline	ND		ug/kg	160	29.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	30.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	140	26.
2,4-Dimethylphenol	ND		ug/kg	160	53.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/09/18 21:52
Analyst: RC

Extraction Method: EPA 3546
Extraction Date: 05/08/18 16:58

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03,06,09,11 Batch: WG1113793-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	75.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	49.
Carbazole	ND		ug/kg	160	16.
Tentatively Identified Compounds					
No Tentatively Identified Compounds	ND		ug/kg		

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	99		10-136
4-Terphenyl-d14	94		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 13 Batch: WG1113148-2 WG1113148-3								
Acenaphthene	75		72		37-111	4		30
1,2,4-Trichlorobenzene	65		63		39-98	3		30
Hexachlorobenzene	81		80		40-140	1		30
Bis(2-chloroethyl)ether	81		78		40-140	4		30
2-Chloronaphthalene	78		75		40-140	4		30
1,2-Dichlorobenzene	65		62		40-140	5		30
1,3-Dichlorobenzene	62		60		40-140	3		30
1,4-Dichlorobenzene	64		60		36-97	6		30
3,3'-Dichlorobenzidine	70		70		40-140	0		30
2,4-Dinitrotoluene	106		104		48-143	2		30
2,6-Dinitrotoluene	105		103		40-140	2		30
Fluoranthene	86		85		40-140	1		30
4-Chlorophenyl phenyl ether	78		76		40-140	3		30
4-Bromophenyl phenyl ether	81		80		40-140	1		30
Bis(2-chloroisopropyl)ether	100		96		40-140	4		30
Bis(2-chloroethoxy)methane	84		81		40-140	4		30
Hexachlorobutadiene	61		58		40-140	5		30
Hexachlorocyclopentadiene	44		43		40-140	2		30
Hexachloroethane	60		58		40-140	3		30
Isophorone	85		83		40-140	2		30
Naphthalene	71		69		40-140	3		30
Nitrobenzene	85		83		40-140	2		30
NDPA/DPA	82		81		40-140	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 13 Batch: WG1113148-2 WG1113148-3								
n-Nitrosodi-n-propylamine	84		81		29-132	4		30
Bis(2-ethylhexyl)phthalate	92		91		40-140	1		30
Butyl benzyl phthalate	89		89		40-140	0		30
Di-n-butylphthalate	88		88		40-140	0		30
Di-n-octylphthalate	93		92		40-140	1		30
Diethyl phthalate	83		82		40-140	1		30
Dimethyl phthalate	88		87		40-140	1		30
Benzo(a)anthracene	83		81		40-140	2		30
Benzo(a)pyrene	84		83		40-140	1		30
Benzo(b)fluoranthene	84		84		40-140	0		30
Benzo(k)fluoranthene	84		82		40-140	2		30
Chrysene	84		83		40-140	1		30
Acenaphthylene	82		79		45-123	4		30
Anthracene	82		81		40-140	1		30
Benzo(ghi)perylene	84		83		40-140	1		30
Fluorene	81		78		40-140	4		30
Phenanthrene	83		82		40-140	1		30
Dibenzo(a,h)anthracene	84		82		40-140	2		30
Indeno(1,2,3-cd)pyrene	84		82		40-140	2		30
Pyrene	84		84		26-127	0		30
Biphenyl	78		76		40-140	3		30
4-Chloroaniline	66		65		40-140	2		30
2-Nitroaniline	105		104		52-143	1		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 13 Batch: WG1113148-2 WG1113148-3								
3-Nitroaniline	73		73		25-145	0		30
4-Nitroaniline	93		93		51-143	0		30
Dibenzofuran	79		77		40-140	3		30
2-Methylnaphthalene	73		70		40-140	4		30
1,2,4,5-Tetrachlorobenzene	72		70		2-134	3		30
Acetophenone	85		83		39-129	2		30
2,4,6-Trichlorophenol	88		87		30-130	1		30
p-Chloro-m-cresol	87		84		23-97	4		30
2-Chlorophenol	78		74		27-123	5		30
2,4-Dichlorophenol	88		86		30-130	2		30
2,4-Dimethylphenol	81		81		30-130	0		30
2-Nitrophenol	99		96		30-130	3		30
4-Nitrophenol	66		66		10-80	0		30
2,4-Dinitrophenol	87		83		20-130	5		30
4,6-Dinitro-o-cresol	105		102		20-164	3		30
Pentachlorophenol	73		73		9-103	0		30
Phenol	41		40		12-110	2		30
2-Methylphenol	74		73		30-130	1		30
3-Methylphenol/4-Methylphenol	74		71		30-130	4		30
2,4,5-Trichlorophenol	90		90		30-130	0		30
Benzoic Acid	29		27		10-164	7		30
Benzyl Alcohol	69		68		26-116	1		30
Carbazole	88		87		55-144	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1816155

Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 13 Batch: WG1113148-2 WG1113148-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	63		61		21-120
Phenol-d6	48		47		10-120
Nitrobenzene-d5	99		98		23-120
2-Fluorobiphenyl	96		93		15-120
2,4,6-Tribromophenol	98		95		10-120
4-Terphenyl-d14	102		102		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,06,09,11 Batch: WG1113793-2 WG1113793-3								
Acenaphthene	81		81		31-137	0		50
1,2,4-Trichlorobenzene	80		78		38-107	3		50
Hexachlorobenzene	88		90		40-140	2		50
Bis(2-chloroethyl)ether	79		79		40-140	0		50
2-Chloronaphthalene	80		80		40-140	0		50
1,2-Dichlorobenzene	78		78		40-140	0		50
1,3-Dichlorobenzene	76		75		40-140	1		50
1,4-Dichlorobenzene	78		76		28-104	3		50
3,3'-Dichlorobenzidine	57		60		40-140	5		50
2,4-Dinitrotoluene	107		106		40-132	1		50
2,6-Dinitrotoluene	101		106		40-140	5		50
Fluoranthene	82		85		40-140	4		50
4-Chlorophenyl phenyl ether	84		86		40-140	2		50
4-Bromophenyl phenyl ether	90		93		40-140	3		50
Bis(2-chloroisopropyl)ether	77		76		40-140	1		50
Bis(2-chloroethoxy)methane	81		79		40-117	3		50
Hexachlorobutadiene	82		81		40-140	1		50
Hexachlorocyclopentadiene	70		70		40-140	0		50
Hexachloroethane	77		76		40-140	1		50
Isophorone	83		84		40-140	1		50
Naphthalene	81		79		40-140	3		50
Nitrobenzene	95		94		40-140	1		50
NDPA/DPA	84		84		36-157	0		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,06,09,11 Batch: WG1113793-2 WG1113793-3								
n-Nitrosodi-n-propylamine	83		86		32-121	4		50
Bis(2-ethylhexyl)phthalate	92		97		40-140	5		50
Butyl benzyl phthalate	91		92		40-140	1		50
Di-n-butylphthalate	88		88		40-140	0		50
Di-n-octylphthalate	92		95		40-140	3		50
Diethyl phthalate	84		87		40-140	4		50
Dimethyl phthalate	83		85		40-140	2		50
Benzo(a)anthracene	81		84		40-140	4		50
Benzo(a)pyrene	82		85		40-140	4		50
Benzo(b)fluoranthene	84		86		40-140	2		50
Benzo(k)fluoranthene	80		84		40-140	5		50
Chrysene	82		85		40-140	4		50
Acenaphthylene	85		88		40-140	3		50
Anthracene	82		84		40-140	2		50
Benzo(ghi)perylene	82		84		40-140	2		50
Fluorene	82		85		40-140	4		50
Phenanthrene	80		83		40-140	4		50
Dibenzo(a,h)anthracene	82		86		40-140	5		50
Indeno(1,2,3-cd)pyrene	82		86		40-140	5		50
Pyrene	81		84		35-142	4		50
Biphenyl	82		83		54-104	1		50
4-Chloroaniline	**37**	Q	56		40-140	41		50
2-Nitroaniline	108		110		47-134	2		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,06,09,11 Batch: WG1113793-2 WG1113793-3								
3-Nitroaniline	71		73		26-129	3		50
4-Nitroaniline	92		95		41-125	3		50
Dibenzofuran	83		84		40-140	1		50
2-Methylnaphthalene	81		82		40-140	1		50
1,2,4,5-Tetrachlorobenzene	84		85		40-117	1		50
Acetophenone	86		87		14-144	1		50
2,4,6-Trichlorophenol	89		89		30-130	0		50
p-Chloro-m-cresol	94		95		26-103	1		50
2-Chlorophenol	85		86		25-102	1		50
2,4-Dichlorophenol	90		90		30-130	0		50
2,4-Dimethylphenol	90		90		30-130	0		50
2-Nitrophenol	109		112		30-130	3		50
4-Nitrophenol	**118**	Q	**122**	Q	11-114	3		50
2,4-Dinitrophenol	91		94		4-130	3		50
4,6-Dinitro-o-cresol	111		116		10-130	4		50
Pentachlorophenol	81		84		17-109	4		50
Phenol	85		87		26-90	2		50
2-Methylphenol	90		91		30-130.	1		50
3-Methylphenol/4-Methylphenol	88		89		30-130	1		50
2,4,5-Trichlorophenol	90		92		30-130	2		50
Benzoic Acid	58		56		10-110	4		50
Benzyl Alcohol	91		92		40-140	1		50
Carbazole	84		86		54-128	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1816155

Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03,06,09,11 Batch: WG1113793-2 WG1113793-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	88		84		25-120
Phenol-d6	87		83		10-120
Nitrobenzene-d5	94		91		23-120
2-Fluorobiphenyl	83		84		30-120
2,4,6-Tribromophenol	101		101		10-136
4-Terphenyl-d14	93		93		18-120

PCBS

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-03
Client ID: TP-30_COMP
Sample Location: YONKERS, NY

Date Collected: 05/04/18 09:30
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/09/18 18:50
Analyst: WR
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/08/18 19:09
Cleanup Method: EPA 3665A
Cleanup Date: 05/09/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/09/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.2	3.99	1	A
Aroclor 1221	ND		ug/kg	35.2	5.36	1	A
Aroclor 1232	ND		ug/kg	35.2	3.46	1	A
Aroclor 1242	ND		ug/kg	35.2	4.31	1	A
Aroclor 1248	ND		ug/kg	35.2	3.95	1	A
Aroclor 1254	11.7	J	ug/kg	35.2	2.87	1	B
Aroclor 1260	7.75	J	ug/kg	35.2	3.67	1	B
Aroclor 1262	ND		ug/kg	35.2	2.89	1	A
Aroclor 1268	ND		ug/kg	35.2	2.49	1	A
PCBs, Total	19.5	J	ug/kg	35.2	2.49	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	112		30-150	A
Decachlorobiphenyl	117		30-150	A
2,4,5,6-Tetrachloro-m-xylene	111		30-150	B
Decachlorobiphenyl	131		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-06
Client ID: TP-31_COMP
Sample Location: YONKERS, NY

Date Collected: 05/04/18 08:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/09/18 19:03
Analyst: WR
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/08/18 19:09
Cleanup Method: EPA 3665A
Cleanup Date: 05/09/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/09/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.2	4.11	1	A
Aroclor 1221	ND		ug/kg	36.2	5.51	1	A
Aroclor 1232	ND		ug/kg	36.2	3.56	1	A
Aroclor 1242	ND		ug/kg	36.2	4.43	1	A
Aroclor 1248	ND		ug/kg	36.2	4.06	1	A
Aroclor 1254	8.54	J	ug/kg	36.2	2.96	1	B
Aroclor 1260	17.0	J	ug/kg	36.2	3.78	1	B
Aroclor 1262	ND		ug/kg	36.2	2.98	1	A
Aroclor 1268	ND		ug/kg	36.2	2.56	1	A
PCBs, Total	25.5	J	ug/kg	36.2	2.56	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	123		30-150	A
Decachlorobiphenyl	126		30-150	A
2,4,5,6-Tetrachloro-m-xylene	123		30-150	B
Decachlorobiphenyl	138		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-09
Client ID: TP-32_COMP
Sample Location: YONKERS, NY

Date Collected: 05/04/18 10:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/09/18 19:16
Analyst: WR
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/08/18 19:11
Cleanup Method: EPA 3665A
Cleanup Date: 05/09/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/09/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.4	4.01	1	A
Aroclor 1221	ND		ug/kg	35.4	5.38	1	A
Aroclor 1232	ND		ug/kg	35.4	3.48	1	A
Aroclor 1242	ND		ug/kg	35.4	4.33	1	A
Aroclor 1248	ND		ug/kg	35.4	3.97	1	A
Aroclor 1254	14.0	J	ug/kg	35.4	2.89	1	B
Aroclor 1260	ND		ug/kg	35.4	3.69	1	A
Aroclor 1262	ND		ug/kg	35.4	2.91	1	A
Aroclor 1268	ND		ug/kg	35.4	2.50	1	A
PCBs, Total	14.0	J	ug/kg	35.4	2.50	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	127		30-150	A
Decachlorobiphenyl	127		30-150	A
2,4,5,6-Tetrachloro-m-xylene	124		30-150	B
Decachlorobiphenyl	142		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-11
Client ID: TP-X-050415-C
Sample Location: YONKERS, NY

Date Collected: 05/04/18 00:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 05/09/18 19:29
Analyst: WR
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/08/18 19:11
Cleanup Method: EPA 3665A
Cleanup Date: 05/09/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/09/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.7	4.16	1	A
Aroclor 1221	ND		ug/kg	36.7	5.58	1	A
Aroclor 1232	ND		ug/kg	36.7	3.61	1	A
Aroclor 1242	ND		ug/kg	36.7	4.49	1	A
Aroclor 1248	ND		ug/kg	36.7	4.12	1	A
Aroclor 1254	6.15	J	ug/kg	36.7	2.99	1	B
Aroclor 1260	10.6	J	ug/kg	36.7	3.83	1	B
Aroclor 1262	ND		ug/kg	36.7	3.02	1	A
Aroclor 1268	ND		ug/kg	36.7	2.60	1	A
PCBs, Total	16.8	J	ug/kg	36.7	2.60	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-13
Client ID: FB02
Sample Location: YONKERS, NY

Date Collected: 05/04/18 10:25
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 05/09/18 17:32
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 05/08/18 02:52
Cleanup Method: EPA 3665A
Cleanup Date: 05/08/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/09/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	108		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	105		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/08/18 03:26
Analyst: HT

Extraction Method: EPA 3510C
Extraction Date: 05/07/18 12:50
Cleanup Method: EPA 3665A
Cleanup Date: 05/07/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/08/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 13 Batch: WG1113309-1						
Aroclor 1016	ND		ug/l	0.083	0.020	A
Aroclor 1221	ND		ug/l	0.083	0.032	A
Aroclor 1232	ND		ug/l	0.083	0.027	A
Aroclor 1242	ND		ug/l	0.083	0.030	A
Aroclor 1248	ND		ug/l	0.083	0.023	A
Aroclor 1254	ND		ug/l	0.083	0.035	A
Aroclor 1260	ND		ug/l	0.083	0.020	A
Aroclor 1262	ND		ug/l	0.083	0.017	A
Aroclor 1268	ND		ug/l	0.083	0.027	A
PCBs, Total	ND		ug/l	0.083	0.017	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	43		30-150	A
2,4,5,6-Tetrachloro-m-xylene	98		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 05/09/18 20:21
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 05/08/18 17:02
Cleanup Method: EPA 3665A
Cleanup Date: 05/09/18
Cleanup Method: EPA 3660B
Cleanup Date: 05/09/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03,06,09,11 Batch: WG1113794-1						
Aroclor 1016	ND		ug/kg	31.4	3.56	A
Aroclor 1221	ND		ug/kg	31.4	4.78	A
Aroclor 1232	ND		ug/kg	31.4	3.09	A
Aroclor 1242	ND		ug/kg	31.4	3.85	A
Aroclor 1248	ND		ug/kg	31.4	3.53	A
Aroclor 1254	ND		ug/kg	31.4	2.56	A
Aroclor 1260	ND		ug/kg	31.4	3.28	A
Aroclor 1262	ND		ug/kg	31.4	2.58	A
Aroclor 1268	ND		ug/kg	31.4	2.22	A
PCBs, Total	ND		ug/kg	31.4	2.22	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	132		30-150	A
Decachlorobiphenyl	113		30-150	A
2,4,5,6-Tetrachloro-m-xylene	129		30-150	B
Decachlorobiphenyl	120		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1816155

Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 13 Batch: WG1113309-2 WG1113309-3									
Aroclor 1016	87		91		40-140	4		50	A
Aroclor 1260	56		60		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		92		30-150	A
Decachlorobiphenyl	42		46		30-150	A
2,4,5,6-Tetrachloro-m-xylene	100		99		30-150	B
Decachlorobiphenyl	67		70		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1816155

Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03,06,09,11 Batch: WG1113794-2 WG1113794-3									
Aroclor 1016	78		79		40-140	1		50	A
Aroclor 1260	72		72		40-140	0		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	125		127		30-150	A
Decachlorobiphenyl	112		107		30-150	A
2,4,5,6-Tetrachloro-m-xylene	120		126		30-150	B
Decachlorobiphenyl	113		114		30-150	B

PESTICIDES

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-03
Client ID: TP-30_COMP
Sample Location: YONKERS, NY

Date Collected: 05/04/18 09:30
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/10/18 19:31
Analyst: KEG
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/08/18 17:45
Cleanup Method: EPA 3620B
Cleanup Date: 05/09/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.76	0.344	1	A
Lindane	ND		ug/kg	0.732	0.327	1	A
Alpha-BHC	ND		ug/kg	0.732	0.208	1	A
Beta-BHC	ND		ug/kg	1.76	0.666	1	A
Heptachlor	ND		ug/kg	0.878	0.394	1	A
Aldrin	ND		ug/kg	1.76	0.618	1	A
Heptachlor epoxide	ND		ug/kg	3.29	0.988	1	A
Endrin	ND		ug/kg	0.732	0.300	1	A
Endrin aldehyde	ND		ug/kg	2.19	0.768	1	A
Endrin ketone	ND		ug/kg	1.76	0.452	1	A
Dieldrin	ND		ug/kg	1.10	0.549	1	A
4,4'-DDE	0.639	J	ug/kg	1.76	0.406	1	B
4,4'-DDD	1.35	J	ug/kg	1.76	0.626	1	B
4,4'-DDT	ND		ug/kg	3.29	1.41	1	A
Endosulfan I	ND		ug/kg	1.76	0.415	1	A
Endosulfan II	ND		ug/kg	1.76	0.587	1	B
Endosulfan sulfate	ND		ug/kg	0.732	0.348	1	A
Methoxychlor	ND		ug/kg	3.29	1.02	1	A
Toxaphene	ND		ug/kg	32.9	9.22	1	A
cis-Chlordane	0.896	J	ug/kg	2.19	0.612	1	B
trans-Chlordane	ND	PI	ug/kg	2.19	0.579	1	A
Chlordane	22.1	P	ug/kg	14.3	5.82	1	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-03
Client ID: TP-30_COMP
Sample Location: YONKERS, NY
Date Collected: 05/04/18 09:30
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	52		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	71		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-03
Client ID: TP-30_COMP
Sample Location: YONKERS, NY

Date Collected: 05/04/18 09:30
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/08/18 15:13
Analyst: SL
Percent Solids: 90%
Methylation Date: 05/07/18 15:37

Extraction Method: EPA 8151A
Extraction Date: 05/05/18 08:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	184	11.6	1	A
2,4,5-T	ND		ug/kg	184	5.71	1	A
2,4,5-TP (Silvex)	ND		ug/kg	184	4.90	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	130		30-150	A
DCAA	134		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-06
Client ID: TP-31_COMP
Sample Location: YONKERS, NY

Date Collected: 05/04/18 08:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/10/18 19:44
Analyst: KEG
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/08/18 17:45
Cleanup Method: EPA 3620B
Cleanup Date: 05/09/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.73	0.338	1	A
Lindane	ND		ug/kg	0.720	0.322	1	A
Alpha-BHC	ND		ug/kg	0.720	0.204	1	A
Beta-BHC	ND		ug/kg	1.73	0.655	1	A
Heptachlor	ND		ug/kg	0.864	0.387	1	A
Aldrin	ND		ug/kg	1.73	0.608	1	A
Heptachlor epoxide	1.14	J	ug/kg	3.24	0.972	1	A
Endrin	ND		ug/kg	0.720	0.295	1	A
Endrin aldehyde	ND		ug/kg	2.16	0.756	1	A
Endrin ketone	ND		ug/kg	1.73	0.445	1	A
Dieldrin	1.05	J	ug/kg	1.08	0.540	1	B
4,4'-DDE	1.25	J	ug/kg	1.73	0.400	1	B
4,4'-DDD	5.17		ug/kg	1.73	0.616	1	B
4,4'-DDT	2.04	J	ug/kg	3.24	1.39	1	A
Endosulfan I	ND		ug/kg	1.73	0.408	1	A
Endosulfan II	1.34	J	ug/kg	1.73	0.577	1	B
Endosulfan sulfate	ND		ug/kg	0.720	0.343	1	A
Methoxychlor	ND		ug/kg	3.24	1.01	1	A
Toxaphene	ND		ug/kg	32.4	9.07	1	A
cis-Chlordane	2.49		ug/kg	2.16	0.602	1	A
trans-Chlordane	1.42	JPI	ug/kg	2.16	0.570	1	A
Chlordane	17.8	PI	ug/kg	14.0	5.72	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-06
Client ID: TP-31_COMP
Sample Location: YONKERS, NY
Date Collected: 05/04/18 08:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	63		30-150	B
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	91		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-06
Client ID: TP-31_COMP
Sample Location: YONKERS, NY

Date Collected: 05/04/18 08:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/08/18 15:31
Analyst: SL
Percent Solids: 90%
Methylation Date: 05/07/18 15:37

Extraction Method: EPA 8151A
Extraction Date: 05/05/18 08:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	183	11.5	1	A
2,4,5-T	ND		ug/kg	183	5.67	1	A
2,4,5-TP (Silvex)	ND		ug/kg	183	4.87	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	117		30-150	A
DCAA	125		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-09
Client ID: TP-32_COMP
Sample Location: YONKERS, NY

Date Collected: 05/04/18 10:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/10/18 19:57
Analyst: KEG
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/08/18 17:46
Cleanup Method: EPA 3620B
Cleanup Date: 05/09/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.68	0.329	1	A
Lindane	ND		ug/kg	0.700	0.313	1	A
Alpha-BHC	ND		ug/kg	0.700	0.199	1	A
Beta-BHC	ND		ug/kg	1.68	0.637	1	A
Heptachlor	ND		ug/kg	0.840	0.377	1	A
Aldrin	ND		ug/kg	1.68	0.592	1	A
Heptachlor epoxide	ND		ug/kg	3.15	0.946	1	A
Endrin	ND		ug/kg	0.700	0.287	1	A
Endrin aldehyde	ND		ug/kg	2.10	0.736	1	A
Endrin ketone	ND		ug/kg	1.68	0.433	1	A
Dieldrin	ND		ug/kg	1.05	0.525	1	B
4,4'-DDE	ND		ug/kg	1.68	0.389	1	A
4,4'-DDD	ND		ug/kg	1.68	0.600	1	A
4,4'-DDT	ND		ug/kg	3.15	1.35	1	A
Endosulfan I	ND		ug/kg	1.68	0.397	1	A
Endosulfan II	ND		ug/kg	1.68	0.562	1	A
Endosulfan sulfate	ND		ug/kg	0.700	0.333	1	A
Methoxychlor	ND		ug/kg	3.15	0.981	1	A
Toxaphene	ND		ug/kg	31.5	8.83	1	A
cis-Chlordane	ND		ug/kg	2.10	0.586	1	A
trans-Chlordane	ND		ug/kg	2.10	0.555	1	A
Chlordane	ND		ug/kg	13.6	5.57	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-09
Client ID: TP-32_COMP
Sample Location: YONKERS, NY
Date Collected: 05/04/18 10:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	52		30-150	B
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	63		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-09
Client ID: TP-32_COMP
Sample Location: YONKERS, NY

Date Collected: 05/04/18 10:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/08/18 16:47
Analyst: SL
Percent Solids: 92%
Methylation Date: 05/07/18 15:37

Extraction Method: EPA 8151A
Extraction Date: 05/05/18 08:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	176	11.1	1	A
2,4,5-T	ND		ug/kg	176	5.45	1	A
2,4,5-TP (Silvex)	ND		ug/kg	176	4.68	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	106		30-150	A
DCAA	117		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-11
Client ID: TP-X-050415-C
Sample Location: YONKERS, NY

Date Collected: 05/04/18 00:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 05/10/18 20:10
Analyst: KEG
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/08/18 17:46
Cleanup Method: EPA 3620B
Cleanup Date: 05/09/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.70	0.332	1	A
Lindane	ND		ug/kg	0.706	0.316	1	A
Alpha-BHC	ND		ug/kg	0.706	0.201	1	A
Beta-BHC	ND		ug/kg	1.70	0.643	1	A
Heptachlor	ND		ug/kg	0.848	0.380	1	A
Aldrin	ND		ug/kg	1.70	0.597	1	A
Heptachlor epoxide	ND		ug/kg	3.18	0.954	1	A
Endrin	ND		ug/kg	0.706	0.290	1	A
Endrin aldehyde	ND		ug/kg	2.12	0.742	1	A
Endrin ketone	ND		ug/kg	1.70	0.437	1	A
Dieldrin	0.748	J	ug/kg	1.06	0.530	1	A
4,4'-DDE	1.17	J	ug/kg	1.70	0.392	1	B
4,4'-DDD	2.82		ug/kg	1.70	0.605	1	B
4,4'-DDT	1.90	J	ug/kg	3.18	1.36	1	A
Endosulfan I	ND		ug/kg	1.70	0.400	1	A
Endosulfan II	1.31	J	ug/kg	1.70	0.566	1	B
Endosulfan sulfate	ND		ug/kg	0.706	0.336	1	A
Methoxychlor	ND		ug/kg	3.18	0.989	1	A
Toxaphene	ND		ug/kg	31.8	8.90	1	A
cis-Chlordane	2.33		ug/kg	2.12	0.591	1	A
trans-Chlordane	1.28	JPI	ug/kg	2.12	0.560	1	A
Chlordane	15.2	PI	ug/kg	13.8	5.62	1	A

Project Name: FORMER BICC
Lab Number: L1816155
Project Number: 056970006
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-11
Client ID: TP-X-050415-C
Sample Location: YONKERS, NY
Date Collected: 05/04/18 00:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	51		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	60		30-150	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-11
Client ID: TP-X-050415-C
Sample Location: YONKERS, NY

Date Collected: 05/04/18 00:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 05/08/18 17:05
Analyst: SL
Percent Solids: 90%
Methylation Date: 05/07/18 15:37

Extraction Method: EPA 8151A
Extraction Date: 05/05/18 08:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	181	11.4	1	A
2,4,5-T	ND		ug/kg	181	5.60	1	A
2,4,5-TP (Silvex)	ND		ug/kg	181	4.81	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	121		30-150	A
DCAA	127		30-150	B

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-13
Client ID: FB02
Sample Location: YONKERS, NY

Date Collected: 05/04/18 10:25
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 05/09/18 21:09
Analyst: KEG

Extraction Method: EPA 3510C
Extraction Date: 05/08/18 09:28
Cleanup Method: EPA 3620B
Cleanup Date: 05/09/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	0.019	PI	ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-13
Client ID: FB02
Sample Location: YONKERS, NY
Date Collected: 05/04/18 10:25
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	47		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-13
Client ID: FB02
Sample Location: YONKERS, NY

Date Collected: 05/04/18 10:25
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8151A
Analytical Date: 05/09/18 18:46
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 05/07/18 16:15

Methylation Date: 05/09/18 06:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	117		30-150	A
DCAA	112		30-150	B

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 05/08/18 05:30
Analyst: KEG

Extraction Method: EPA 8151A
Extraction Date: 05/05/18 07:54

Methylation Date: 05/07/18 15:37

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 03,06,09,11 Batch: WG1112906-1						
2,4-D	ND		ug/kg	164	10.4	A
2,4,5-T	ND		ug/kg	164	5.10	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.37	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	89		30-150	A
DCAA	82		30-150	B

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 05/09/18 17:50
Analyst: BM

Extraction Method: EPA 8151A
Extraction Date: 05/07/18 16:15

Methylation Date: 05/09/18 06:31

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 13 Batch: WG1113376-1						
2,4-D	ND		ug/l	10.0	0.498	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	125		30-150	A
DCAA	120		30-150	B

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/09/18 19:14
Analyst: JW

Extraction Method: EPA 3510C
Extraction Date: 05/08/18 01:11
Cleanup Method: EPA 3620B
Cleanup Date: 05/09/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 13 Batch: WG1113478-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/09/18 19:14
Analyst: JW

Extraction Method: EPA 3510C
Extraction Date: 05/08/18 01:11
Cleanup Method: EPA 3620B
Cleanup Date: 05/09/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 13 Batch: WG1113478-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	92		30-150	B

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/10/18 19:31
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 05/08/18 17:45
Cleanup Method: EPA 3620B
Cleanup Date: 05/09/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03,06,09,11 Batch: WG1113804-1						
Delta-BHC	ND		ug/kg	1.52	0.298	A
Lindane	ND		ug/kg	0.635	0.284	A
Alpha-BHC	ND		ug/kg	0.635	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.578	A
Heptachlor	ND		ug/kg	0.762	0.342	A
Aldrin	ND		ug/kg	1.52	0.536	A
Heptachlor epoxide	ND		ug/kg	2.86	0.857	A
Endrin	ND		ug/kg	0.635	0.260	A
Endrin aldehyde	ND		ug/kg	1.90	0.667	A
Endrin ketone	ND		ug/kg	1.52	0.392	A
Dieldrin	ND		ug/kg	0.952	0.476	A
4,4'-DDE	ND		ug/kg	1.52	0.352	A
4,4'-DDD	ND		ug/kg	1.52	0.543	A
4,4'-DDT	ND		ug/kg	2.86	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.360	A
Endosulfan II	ND		ug/kg	1.52	0.509	A
Endosulfan sulfate	ND		ug/kg	0.635	0.302	A
Methoxychlor	ND		ug/kg	2.86	0.889	A
Toxaphene	ND		ug/kg	28.6	8.00	A
cis-Chlordane	ND		ug/kg	1.90	0.531	A
trans-Chlordane	ND		ug/kg	1.90	0.503	A
Chlordane	ND		ug/kg	12.4	5.05	A

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 05/10/18 19:31
Analyst: JW

Extraction Method: EPA 3546
Extraction Date: 05/08/18 17:45
Cleanup Method: EPA 3620B
Cleanup Date: 05/09/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03,06,09,11 Batch: WG1113804-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	126		30-150	B
Decachlorobiphenyl	130		30-150	B
2,4,5,6-Tetrachloro-m-xylene	113		30-150	A
Decachlorobiphenyl	112		30-150	A

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 03,06,09,11 Batch: WG1112906-2 WG1112906-3									
2,4-D	112		102		30-150	9		30	A
2,4,5-T	96		85		30-150	12		30	A
2,4,5-TP (Silvex)	89		82		30-150	8		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	135		99		30-150	A
DCAA	118		105		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1816155

Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 13 Batch: WG1113376-2 WG1113376-3									
2,4-D	93		87		30-150	7		25	A
2,4,5-T	94		96		30-150	2		25	A
2,4,5-TP (Silvex)	96		89		30-150	8		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	121		106		30-150	A
DCAA	135		115		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1816155

Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 13 Batch: WG1113478-2 WG1113478-3									
Delta-BHC	112		115		30-150	3		20	A
Lindane	101		101		30-150	0		20	A
Alpha-BHC	88		89		30-150	1		20	A
Beta-BHC	95		94		30-150	0		20	A
Heptachlor	97		98		30-150	1		20	A
Aldrin	99		99		30-150	1		20	A
Heptachlor epoxide	101		101		30-150	0		20	A
Endrin	108		109		30-150	1		20	A
Endrin aldehyde	94		97		30-150	3		20	A
Endrin ketone	110		113		30-150	3		20	A
Dieldrin	112		113		30-150	1		20	A
4,4'-DDE	108		109		30-150	1		20	A
4,4'-DDD	110		113		30-150	3		20	A
4,4'-DDT	110		110		30-150	0		20	A
Endosulfan I	106		106		30-150	0		20	A
Endosulfan II	102		105		30-150	3		20	A
Endosulfan sulfate	110		115		30-150	4		20	A
Methoxychlor	111		113		30-150	2		20	A
cis-Chlordane	96		96		30-150	0		20	A
trans-Chlordane	99		101		30-150	2		20	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1816155

Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 13 Batch: WG1113478-2 WG1113478-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		87		30-150	A
Decachlorobiphenyl	93		95		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		81		30-150	B
Decachlorobiphenyl	93		92		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03,06,09,11 Batch: WG1113804-2 WG1113804-3									
Delta-BHC	118		112		30-150	5		30	A
Lindane	104		107		30-150	3		30	A
Alpha-BHC	94		94		30-150	0		30	A
Beta-BHC	120		116		30-150	3		30	A
Heptachlor	104		103		30-150	1		30	A
Aldrin	106		105		30-150	1		30	A
Heptachlor epoxide	97		98		30-150	1		30	A
Endrin	108		105		30-150	3		30	A
Endrin aldehyde	102		95		30-150	7		30	A
Endrin ketone	115		109		30-150	5		30	A
Dieldrin	116		114		30-150	2		30	A
4,4'-DDE	108		105		30-150	3		30	A
4,4'-DDD	112		108		30-150	4		30	A
4,4'-DDT	114		108		30-150	5		30	A
Endosulfan I	102		101		30-150	1		30	A
Endosulfan II	108		104		30-150	4		30	A
Endosulfan sulfate	115		92		30-150	22		30	A
Methoxychlor	116		109		30-150	6		30	A
cis-Chlordane	97		94		30-150	3		30	A
trans-Chlordane	74		79		30-150	7		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1816155

Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03,06,09,11 Batch: WG1113804-2 WG1113804-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	110		111		30-150	B
Decachlorobiphenyl	124		118		30-150	B
2,4,5,6-Tetrachloro-m-xylene	103		106		30-150	A
Decachlorobiphenyl	115		109		30-150	A

METALS

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-03
Client ID: TP-30_COMP
Sample Location: YONKERS, NY
Date Collected: 05/04/18 09:30
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11400		mg/kg	8.59	2.32	2	05/08/18 21:15	05/09/18 16:21	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.29	0.326	2	05/08/18 21:15	05/09/18 16:21	EPA 3050B	1,6010C	AB
Arsenic, Total	1.30		mg/kg	0.859	0.179	2	05/08/18 21:15	05/09/18 16:21	EPA 3050B	1,6010C	AB
Barium, Total	206		mg/kg	0.859	0.149	2	05/08/18 21:15	05/09/18 16:21	EPA 3050B	1,6010C	AB
Beryllium, Total	ND		mg/kg	0.429	0.028	2	05/08/18 21:15	05/09/18 16:21	EPA 3050B	1,6010C	AB
Cadmium, Total	0.893		mg/kg	0.859	0.084	2	05/08/18 21:15	05/09/18 16:21	EPA 3050B	1,6010C	AB
Calcium, Total	10100		mg/kg	8.59	3.01	2	05/08/18 21:15	05/09/18 16:21	EPA 3050B	1,6010C	AB
Chromium, Total	28.8		mg/kg	0.859	0.082	2	05/08/18 21:15	05/09/18 16:21	EPA 3050B	1,6010C	AB
Cobalt, Total	12.7		mg/kg	1.72	0.142	2	05/08/18 21:15	05/09/18 16:21	EPA 3050B	1,6010C	AB
Copper, Total	20.9		mg/kg	0.859	0.222	2	05/08/18 21:15	05/09/18 16:21	EPA 3050B	1,6010C	AB
Iron, Total	18200		mg/kg	4.29	0.776	2	05/08/18 21:15	05/09/18 16:21	EPA 3050B	1,6010C	AB
Lead, Total	12.6		mg/kg	4.29	0.230	2	05/08/18 21:15	05/09/18 16:21	EPA 3050B	1,6010C	AB
Magnesium, Total	11300		mg/kg	8.59	1.32	2	05/08/18 21:15	05/09/18 16:21	EPA 3050B	1,6010C	AB
Manganese, Total	211		mg/kg	0.859	0.136	2	05/08/18 21:15	05/09/18 16:21	EPA 3050B	1,6010C	AB
Mercury, Total	0.019	J	mg/kg	0.071	0.015	1	05/08/18 07:20	05/08/18 13:21	EPA 7471B	1,7471B	MG
Nickel, Total	21.7		mg/kg	2.15	0.208	2	05/08/18 21:15	05/09/18 16:21	EPA 3050B	1,6010C	AB
Potassium, Total	5810		mg/kg	215	12.4	2	05/08/18 21:15	05/09/18 16:21	EPA 3050B	1,6010C	AB
Selenium, Total	1.11	J	mg/kg	1.72	0.222	2	05/08/18 21:15	05/09/18 16:21	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.859	0.243	2	05/08/18 21:15	05/09/18 16:21	EPA 3050B	1,6010C	AB
Sodium, Total	301		mg/kg	172	2.70	2	05/08/18 21:15	05/09/18 16:21	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.72	0.270	2	05/08/18 21:15	05/09/18 16:21	EPA 3050B	1,6010C	AB
Vanadium, Total	36.0		mg/kg	0.859	0.174	2	05/08/18 21:15	05/09/18 16:21	EPA 3050B	1,6010C	AB
Zinc, Total	54.8		mg/kg	4.29	0.252	2	05/08/18 21:15	05/09/18 16:21	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	29		mg/kg	0.89	0.89	1		05/09/18 16:21	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-06
Client ID: TP-31_COMP
Sample Location: YONKERS, NY
Date Collected: 05/04/18 08:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9770		mg/kg	8.82	2.38	2	05/08/18 21:15	05/09/18 16:26	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.41	0.335	2	05/08/18 21:15	05/09/18 16:26	EPA 3050B	1,6010C	AB
Arsenic, Total	2.74		mg/kg	0.882	0.184	2	05/08/18 21:15	05/09/18 16:26	EPA 3050B	1,6010C	AB
Barium, Total	115		mg/kg	0.882	0.154	2	05/08/18 21:15	05/09/18 16:26	EPA 3050B	1,6010C	AB
Beryllium, Total	ND		mg/kg	0.441	0.029	2	05/08/18 21:15	05/09/18 16:26	EPA 3050B	1,6010C	AB
Cadmium, Total	0.821	J	mg/kg	0.882	0.087	2	05/08/18 21:15	05/09/18 16:26	EPA 3050B	1,6010C	AB
Calcium, Total	36500		mg/kg	8.82	3.09	2	05/08/18 21:15	05/09/18 16:26	EPA 3050B	1,6010C	AB
Chromium, Total	25.2		mg/kg	0.882	0.085	2	05/08/18 21:15	05/09/18 16:26	EPA 3050B	1,6010C	AB
Cobalt, Total	8.28		mg/kg	1.76	0.146	2	05/08/18 21:15	05/09/18 16:26	EPA 3050B	1,6010C	AB
Copper, Total	22.0		mg/kg	0.882	0.228	2	05/08/18 21:15	05/09/18 16:26	EPA 3050B	1,6010C	AB
Iron, Total	15000		mg/kg	4.41	0.797	2	05/08/18 21:15	05/09/18 16:26	EPA 3050B	1,6010C	AB
Lead, Total	29.4		mg/kg	4.41	0.236	2	05/08/18 21:15	05/09/18 16:26	EPA 3050B	1,6010C	AB
Magnesium, Total	22700		mg/kg	8.82	1.36	2	05/08/18 21:15	05/09/18 16:26	EPA 3050B	1,6010C	AB
Manganese, Total	224		mg/kg	0.882	0.140	2	05/08/18 21:15	05/09/18 16:26	EPA 3050B	1,6010C	AB
Mercury, Total	0.047	J	mg/kg	0.072	0.015	1	05/08/18 07:20	05/08/18 13:23	EPA 7471B	1,7471B	MG
Nickel, Total	15.8		mg/kg	2.21	0.214	2	05/08/18 21:15	05/09/18 16:26	EPA 3050B	1,6010C	AB
Potassium, Total	3620		mg/kg	221	12.7	2	05/08/18 21:15	05/09/18 16:26	EPA 3050B	1,6010C	AB
Selenium, Total	0.953	J	mg/kg	1.76	0.228	2	05/08/18 21:15	05/09/18 16:26	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.882	0.250	2	05/08/18 21:15	05/09/18 16:26	EPA 3050B	1,6010C	AB
Sodium, Total	454		mg/kg	176	2.78	2	05/08/18 21:15	05/09/18 16:26	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.76	0.278	2	05/08/18 21:15	05/09/18 16:26	EPA 3050B	1,6010C	AB
Vanadium, Total	29.5		mg/kg	0.882	0.179	2	05/08/18 21:15	05/09/18 16:26	EPA 3050B	1,6010C	AB
Zinc, Total	66.7		mg/kg	4.41	0.258	2	05/08/18 21:15	05/09/18 16:26	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	25		mg/kg	0.89	0.89	1		05/09/18 16:26	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-09
Client ID: TP-32_COMP
Sample Location: YONKERS, NY
Date Collected: 05/04/18 10:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	11200		mg/kg	8.43	2.28	2	05/08/18 21:15	05/09/18 16:31	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.21	0.320	2	05/08/18 21:15	05/09/18 16:31	EPA 3050B	1,6010C	AB
Arsenic, Total	1.05		mg/kg	0.843	0.175	2	05/08/18 21:15	05/09/18 16:31	EPA 3050B	1,6010C	AB
Barium, Total	180		mg/kg	0.843	0.147	2	05/08/18 21:15	05/09/18 16:31	EPA 3050B	1,6010C	AB
Beryllium, Total	ND		mg/kg	0.421	0.028	2	05/08/18 21:15	05/09/18 16:31	EPA 3050B	1,6010C	AB
Cadmium, Total	0.801	J	mg/kg	0.843	0.083	2	05/08/18 21:15	05/09/18 16:31	EPA 3050B	1,6010C	AB
Calcium, Total	2600		mg/kg	8.43	2.95	2	05/08/18 21:15	05/09/18 16:31	EPA 3050B	1,6010C	AB
Chromium, Total	28.9		mg/kg	0.843	0.081	2	05/08/18 21:15	05/09/18 16:31	EPA 3050B	1,6010C	AB
Cobalt, Total	13.0		mg/kg	1.68	0.140	2	05/08/18 21:15	05/09/18 16:31	EPA 3050B	1,6010C	AB
Copper, Total	18.3		mg/kg	0.843	0.217	2	05/08/18 21:15	05/09/18 16:31	EPA 3050B	1,6010C	AB
Iron, Total	17300		mg/kg	4.21	0.761	2	05/08/18 21:15	05/09/18 16:31	EPA 3050B	1,6010C	AB
Lead, Total	4.64		mg/kg	4.21	0.226	2	05/08/18 21:15	05/09/18 16:31	EPA 3050B	1,6010C	AB
Magnesium, Total	7890		mg/kg	8.43	1.30	2	05/08/18 21:15	05/09/18 16:31	EPA 3050B	1,6010C	AB
Manganese, Total	203		mg/kg	0.843	0.134	2	05/08/18 21:15	05/09/18 16:31	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.068	0.014	1	05/08/18 07:20	05/08/18 13:24	EPA 7471B	1,7471B	MG
Nickel, Total	23.3		mg/kg	2.11	0.204	2	05/08/18 21:15	05/09/18 16:31	EPA 3050B	1,6010C	AB
Potassium, Total	5810		mg/kg	211	12.1	2	05/08/18 21:15	05/09/18 16:31	EPA 3050B	1,6010C	AB
Selenium, Total	0.885	J	mg/kg	1.68	0.217	2	05/08/18 21:15	05/09/18 16:31	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.843	0.238	2	05/08/18 21:15	05/09/18 16:31	EPA 3050B	1,6010C	AB
Sodium, Total	276		mg/kg	168	2.66	2	05/08/18 21:15	05/09/18 16:31	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.68	0.266	2	05/08/18 21:15	05/09/18 16:31	EPA 3050B	1,6010C	AB
Vanadium, Total	36.4		mg/kg	0.843	0.171	2	05/08/18 21:15	05/09/18 16:31	EPA 3050B	1,6010C	AB
Zinc, Total	43.5		mg/kg	4.21	0.247	2	05/08/18 21:15	05/09/18 16:31	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	29		mg/kg	0.87	0.87	1		05/09/18 16:31	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-11
Client ID: TP-X-050415-C
Sample Location: YONKERS, NY
Date Collected: 05/04/18 00:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	10600		mg/kg	8.87	2.39	2	05/08/18 21:15	05/09/18 16:36	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.43	0.337	2	05/08/18 21:15	05/09/18 16:36	EPA 3050B	1,6010C	AB
Arsenic, Total	2.22		mg/kg	0.887	0.184	2	05/08/18 21:15	05/09/18 16:36	EPA 3050B	1,6010C	AB
Barium, Total	120		mg/kg	0.887	0.154	2	05/08/18 21:15	05/09/18 16:36	EPA 3050B	1,6010C	AB
Beryllium, Total	ND		mg/kg	0.443	0.029	2	05/08/18 21:15	05/09/18 16:36	EPA 3050B	1,6010C	AB
Cadmium, Total	0.842	J	mg/kg	0.887	0.087	2	05/08/18 21:15	05/09/18 16:36	EPA 3050B	1,6010C	AB
Calcium, Total	20500		mg/kg	8.87	3.10	2	05/08/18 21:15	05/09/18 16:36	EPA 3050B	1,6010C	AB
Chromium, Total	27.3		mg/kg	0.887	0.085	2	05/08/18 21:15	05/09/18 16:36	EPA 3050B	1,6010C	AB
Cobalt, Total	9.61		mg/kg	1.77	0.147	2	05/08/18 21:15	05/09/18 16:36	EPA 3050B	1,6010C	AB
Copper, Total	30.4		mg/kg	0.887	0.229	2	05/08/18 21:15	05/09/18 16:36	EPA 3050B	1,6010C	AB
Iron, Total	15200		mg/kg	4.43	0.801	2	05/08/18 21:15	05/09/18 16:36	EPA 3050B	1,6010C	AB
Lead, Total	39.3		mg/kg	4.43	0.238	2	05/08/18 21:15	05/09/18 16:36	EPA 3050B	1,6010C	AB
Magnesium, Total	13200		mg/kg	8.87	1.36	2	05/08/18 21:15	05/09/18 16:36	EPA 3050B	1,6010C	AB
Manganese, Total	239		mg/kg	0.887	0.141	2	05/08/18 21:15	05/09/18 16:36	EPA 3050B	1,6010C	AB
Mercury, Total	0.057	J	mg/kg	0.070	0.015	1	05/08/18 07:20	05/08/18 13:26	EPA 7471B	1,7471B	MG
Nickel, Total	21.2		mg/kg	2.22	0.215	2	05/08/18 21:15	05/09/18 16:36	EPA 3050B	1,6010C	AB
Potassium, Total	3620		mg/kg	222	12.8	2	05/08/18 21:15	05/09/18 16:36	EPA 3050B	1,6010C	AB
Selenium, Total	1.17	J	mg/kg	1.77	0.229	2	05/08/18 21:15	05/09/18 16:36	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.887	0.251	2	05/08/18 21:15	05/09/18 16:36	EPA 3050B	1,6010C	AB
Sodium, Total	456		mg/kg	177	2.79	2	05/08/18 21:15	05/09/18 16:36	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.77	0.279	2	05/08/18 21:15	05/09/18 16:36	EPA 3050B	1,6010C	AB
Vanadium, Total	30.1		mg/kg	0.887	0.180	2	05/08/18 21:15	05/09/18 16:36	EPA 3050B	1,6010C	AB
Zinc, Total	86.0		mg/kg	4.43	0.260	2	05/08/18 21:15	05/09/18 16:36	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	27		mg/kg	0.89	0.89	1		05/09/18 16:36	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-13
Client ID: FB02
Sample Location: YONKERS, NY
Date Collected: 05/04/18 10:25
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.100	0.032	1	05/07/18 14:30	05/07/18 21:19	EPA 3005A	1,6010C	AB
Antimony, Total	ND		mg/l	0.050	0.007	1	05/07/18 14:30	05/07/18 21:19	EPA 3005A	1,6010C	AB
Arsenic, Total	0.002	J	mg/l	0.005	0.002	1	05/07/18 14:30	05/07/18 21:19	EPA 3005A	1,6010C	AB
Barium, Total	ND		mg/l	0.010	0.002	1	05/07/18 14:30	05/07/18 21:19	EPA 3005A	1,6010C	AB
Beryllium, Total	ND		mg/l	0.005	0.001	1	05/07/18 14:30	05/07/18 21:19	EPA 3005A	1,6010C	AB
Cadmium, Total	ND		mg/l	0.005	0.001	1	05/07/18 14:30	05/07/18 21:19	EPA 3005A	1,6010C	AB
Calcium, Total	2.92		mg/l	0.100	0.035	1	05/07/18 14:30	05/07/18 21:19	EPA 3005A	1,6010C	AB
Chromium, Total	ND		mg/l	0.010	0.002	1	05/07/18 14:30	05/07/18 21:19	EPA 3005A	1,6010C	AB
Cobalt, Total	ND		mg/l	0.020	0.002	1	05/07/18 14:30	05/07/18 21:19	EPA 3005A	1,6010C	AB
Copper, Total	ND		mg/l	0.010	0.002	1	05/07/18 14:30	05/07/18 21:19	EPA 3005A	1,6010C	AB
Iron, Total	0.012	J	mg/l	0.050	0.009	1	05/07/18 14:30	05/07/18 21:19	EPA 3005A	1,6010C	AB
Lead, Total	ND		mg/l	0.010	0.003	1	05/07/18 14:30	05/07/18 21:19	EPA 3005A	1,6010C	AB
Magnesium, Total	0.050	J	mg/l	0.100	0.015	1	05/07/18 14:30	05/07/18 21:19	EPA 3005A	1,6010C	AB
Manganese, Total	ND		mg/l	0.010	0.002	1	05/07/18 14:30	05/07/18 21:19	EPA 3005A	1,6010C	AB
Mercury, Total	ND		mg/l	0.00020	0.00006	1	05/07/18 10:58	05/07/18 15:17	EPA 7470A	1,7470A	MG
Nickel, Total	ND		mg/l	0.025	0.002	1	05/07/18 14:30	05/07/18 21:19	EPA 3005A	1,6010C	AB
Potassium, Total	ND		mg/l	2.50	0.237	1	05/07/18 14:30	05/07/18 21:19	EPA 3005A	1,6010C	AB
Selenium, Total	ND		mg/l	0.010	0.004	1	05/07/18 14:30	05/07/18 21:19	EPA 3005A	1,6010C	AB
Silver, Total	ND		mg/l	0.007	0.003	1	05/07/18 14:30	05/07/18 21:19	EPA 3005A	1,6010C	AB
Sodium, Total	0.130	J	mg/l	2.00	0.120	1	05/07/18 14:30	05/07/18 21:19	EPA 3005A	1,6010C	AB
Thallium, Total	ND		mg/l	0.020	0.003	1	05/07/18 14:30	05/07/18 21:19	EPA 3005A	1,6010C	AB
Vanadium, Total	ND		mg/l	0.010	0.002	1	05/07/18 14:30	05/07/18 21:19	EPA 3005A	1,6010C	AB
Zinc, Total	0.003	J	mg/l	0.050	0.002	1	05/07/18 14:30	05/07/18 21:19	EPA 3005A	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		05/07/18 21:19	NA	107,-	

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 13 Batch: WG1113260-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	05/07/18 10:58	05/07/18 14:55	1,7470A	MG

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 13 Batch: WG1113333-1										
Aluminum, Total	ND		mg/l	0.100	0.032	1	05/07/18 14:30	05/07/18 21:33	1,6010C	AB
Antimony, Total	ND		mg/l	0.050	0.007	1	05/07/18 14:30	05/07/18 21:33	1,6010C	AB
Arsenic, Total	ND		mg/l	0.005	0.002	1	05/07/18 14:30	05/07/18 21:33	1,6010C	AB
Barium, Total	ND		mg/l	0.010	0.002	1	05/07/18 14:30	05/07/18 21:33	1,6010C	AB
Beryllium, Total	ND		mg/l	0.005	0.001	1	05/07/18 14:30	05/07/18 21:33	1,6010C	AB
Cadmium, Total	ND		mg/l	0.005	0.001	1	05/07/18 14:30	05/07/18 21:33	1,6010C	AB
Calcium, Total	ND		mg/l	0.100	0.035	1	05/07/18 14:30	05/07/18 21:33	1,6010C	AB
Chromium, Total	ND		mg/l	0.010	0.002	1	05/07/18 14:30	05/07/18 21:33	1,6010C	AB
Cobalt, Total	ND		mg/l	0.020	0.002	1	05/07/18 14:30	05/07/18 21:33	1,6010C	AB
Copper, Total	0.002	J	mg/l	0.010	0.002	1	05/07/18 14:30	05/07/18 21:33	1,6010C	AB
Iron, Total	ND		mg/l	0.050	0.009	1	05/07/18 14:30	05/07/18 21:33	1,6010C	AB
Lead, Total	ND		mg/l	0.010	0.003	1	05/07/18 14:30	05/07/18 21:33	1,6010C	AB
Magnesium, Total	ND		mg/l	0.100	0.015	1	05/07/18 14:30	05/07/18 21:33	1,6010C	AB
Manganese, Total	ND		mg/l	0.010	0.002	1	05/07/18 14:30	05/07/18 21:33	1,6010C	AB
Nickel, Total	ND		mg/l	0.025	0.002	1	05/07/18 14:30	05/07/18 21:33	1,6010C	AB
Potassium, Total	ND		mg/l	2.50	0.237	1	05/07/18 14:30	05/07/18 21:33	1,6010C	AB
Selenium, Total	ND		mg/l	0.010	0.004	1	05/07/18 14:30	05/07/18 21:33	1,6010C	AB
Silver, Total	ND		mg/l	0.007	0.003	1	05/07/18 14:30	05/07/18 21:33	1,6010C	AB
Sodium, Total	ND		mg/l	2.00	0.120	1	05/07/18 14:30	05/07/18 21:33	1,6010C	AB
Thallium, Total	ND		mg/l	0.020	0.003	1	05/07/18 14:30	05/07/18 21:33	1,6010C	AB
Vanadium, Total	ND		mg/l	0.010	0.002	1	05/07/18 14:30	05/07/18 21:33	1,6010C	AB
Zinc, Total	ND		mg/l	0.050	0.002	1	05/07/18 14:30	05/07/18 21:33	1,6010C	AB

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03,06,09,11 Batch: WG1113515-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	05/08/18 07:20	05/08/18 11:46	1,7471B	MG

Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03,06,09,11 Batch: WG1113824-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	05/08/18 21:15	05/09/18 15:02	1,6010C	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	05/08/18 21:15	05/09/18 15:02	1,6010C	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	05/08/18 21:15	05/09/18 15:02	1,6010C	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	05/08/18 21:15	05/09/18 15:02	1,6010C	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	05/08/18 21:15	05/09/18 15:02	1,6010C	LC
Cadmium, Total	0.072	J	mg/kg	0.400	0.039	1	05/08/18 21:15	05/09/18 15:02	1,6010C	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	05/08/18 21:15	05/09/18 15:02	1,6010C	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	05/08/18 21:15	05/09/18 15:02	1,6010C	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	05/08/18 21:15	05/09/18 15:02	1,6010C	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	05/08/18 21:15	05/09/18 15:02	1,6010C	LC
Iron, Total	0.588	J	mg/kg	2.00	0.361	1	05/08/18 21:15	05/09/18 15:02	1,6010C	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	05/08/18 21:15	05/09/18 15:02	1,6010C	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	05/08/18 21:15	05/09/18 15:02	1,6010C	LC
Manganese, Total	ND		mg/kg	0.400	0.064	1	05/08/18 21:15	05/09/18 15:02	1,6010C	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	05/08/18 21:15	05/09/18 15:02	1,6010C	LC
Potassium, Total	ND		mg/kg	100	5.76	1	05/08/18 21:15	05/09/18 15:02	1,6010C	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	05/08/18 21:15	05/09/18 15:02	1,6010C	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	05/08/18 21:15	05/09/18 15:02	1,6010C	LC
Sodium, Total	ND		mg/kg	80.0	1.26	1	05/08/18 21:15	05/09/18 15:02	1,6010C	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	05/08/18 21:15	05/09/18 15:02	1,6010C	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	05/08/18 21:15	05/09/18 15:02	1,6010C	LC

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Zinc, Total	0.160	J	mg/kg	2.00	0.117	1	05/08/18 21:15	05/09/18 15:02	1,6010C	LC

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1816155

Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13 Batch: WG1113260-2								
Mercury, Total	92		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1816155

Report Date: 05/11/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13 Batch: WG1113333-2					
Aluminum, Total	102	-	80-120	-	
Antimony, Total	89	-	80-120	-	
Arsenic, Total	103	-	80-120	-	
Barium, Total	92	-	80-120	-	
Beryllium, Total	92	-	80-120	-	
Cadmium, Total	103	-	80-120	-	
Calcium, Total	100	-	80-120	-	
Chromium, Total	93	-	80-120	-	
Cobalt, Total	92	-	80-120	-	
Copper, Total	90	-	80-120	-	
Iron, Total	97	-	80-120	-	
Lead, Total	99	-	80-120	-	
Magnesium, Total	97	-	80-120	-	
Manganese, Total	88	-	80-120	-	
Nickel, Total	93	-	80-120	-	
Potassium, Total	96	-	80-120	-	
Selenium, Total	99	-	80-120	-	
Silver, Total	93	-	80-120	-	
Sodium, Total	101	-	80-120	-	
Thallium, Total	95	-	80-120	-	
Vanadium, Total	94	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1816155

Report Date: 05/11/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13 Batch: WG1113333-2					
Zinc, Total	98	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,11 Batch: WG1113515-2 SRM Lot Number: D098-540					
Mercury, Total	108	-	50-149	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1816155

Report Date: 05/11/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,11 Batch: WG1113824-2 SRM Lot Number: D098-540					
Aluminum, Total	71	-	47-153	-	
Antimony, Total	161	-	6-194	-	
Arsenic, Total	105	-	83-117	-	
Barium, Total	98	-	82-118	-	
Beryllium, Total	101	-	83-117	-	
Cadmium, Total	99	-	82-117	-	
Calcium, Total	95	-	81-118	-	
Chromium, Total	98	-	83-119	-	
Cobalt, Total	101	-	84-116	-	
Copper, Total	103	-	84-116	-	
Iron, Total	92	-	60-140	-	
Lead, Total	100	-	82-117	-	
Magnesium, Total	82	-	76-124	-	
Manganese, Total	99	-	82-118	-	
Nickel, Total	100	-	82-117	-	
Potassium, Total	84	-	69-131	-	
Selenium, Total	107	-	78-121	-	
Silver, Total	100	-	80-120	-	
Sodium, Total	98	-	74-126	-	
Thallium, Total	100	-	80-119	-	
Vanadium, Total	97	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1816155

Report Date: 05/11/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,11 Batch: WG1113824-2 SRM Lot Number: D098-540					
Zinc, Total	98	-	81-119	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13 QC Batch ID: WG1113260-3 QC Sample: L1815844-02 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00032	**7**	Q	-	-		75-125	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13 QC Batch ID: WG1113333-3 QC Sample: L1816043-02 Client ID: MS Sample									
Aluminum, Total	ND	2	2.05	102	-	-	75-125	-	20
Antimony, Total	ND	0.5	0.465	93	-	-	75-125	-	20
Arsenic, Total	0.002J	0.12	0.121	101	-	-	75-125	-	20
Barium, Total	ND	2	1.86	93	-	-	75-125	-	20
Beryllium, Total	ND	0.05	0.046	92	-	-	75-125	-	20
Cadmium, Total	ND	0.051	0.053	104	-	-	75-125	-	20
Calcium, Total	ND	10	10.2	102	-	-	75-125	-	20
Chromium, Total	ND	0.2	0.186	93	-	-	75-125	-	20
Cobalt, Total	ND	0.5	0.460	92	-	-	75-125	-	20
Copper, Total	ND	0.25	0.228	91	-	-	75-125	-	20
Iron, Total	ND	1	0.979	98	-	-	75-125	-	20
Lead, Total	ND	0.51	0.508	100	-	-	75-125	-	20
Magnesium, Total	ND	10	9.79	98	-	-	75-125	-	20
Manganese, Total	ND	0.5	0.445	89	-	-	75-125	-	20
Nickel, Total	ND	0.5	0.468	94	-	-	75-125	-	20
Potassium, Total	ND	10	9.91	99	-	-	75-125	-	20
Selenium, Total	ND	0.12	0.117	98	-	-	75-125	-	20
Silver, Total	ND	0.05	0.047	94	-	-	75-125	-	20
Sodium, Total	ND	10	10.3	103	-	-	75-125	-	20
Thallium, Total	ND	0.12	0.115	96	-	-	75-125	-	20
Vanadium, Total	ND	0.5	0.473	95	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13 QC Batch ID: WG1113333-3 QC Sample: L1816043-02 Client ID: MS Sample										
Zinc, Total	ND	0.5	0.491	98		-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,11 QC Batch ID: WG1113515-3 QC Sample: L1816411-10 Client ID: MS Sample										
Mercury, Total	0.106	0.136	0.210	**76**	Q	-	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,11 QC Batch ID: WG1113824-3 QC Sample: L1814684-06 Client ID: MS Sample										
Aluminum, Total	2460	179	2960	**279**	Q	-	-	75-125	-	20
Antimony, Total	ND	44.8	37.5	84		-	-	75-125	-	20
Arsenic, Total	2.32	10.8	13.4	103		-	-	75-125	-	20
Barium, Total	18.3	179	178	89		-	-	75-125	-	20
Beryllium, Total	0.079J	4.48	3.90	87		-	-	75-125	-	20
Cadmium, Total	0.380J	4.57	4.74	104		-	-	75-125	-	20
Calcium, Total	1720	896	1900	**20**	Q	-	-	75-125	-	20
Chromium, Total	9.16	17.9	24.7	87		-	-	75-125	-	20
Cobalt, Total	2.29	44.8	40.6	85		-	-	75-125	-	20
Copper, Total	8.54	22.4	34.2	114		-	-	75-125	-	20
Iron, Total	5520	89.6	7980	**2740**	Q	-	-	75-125	-	20
Lead, Total	6.06	45.7	56.9	111		-	-	75-125	-	20
Magnesium, Total	611.	896	1370	85		-	-	75-125	-	20
Manganese, Total	202.	44.8	231	**65**	Q	-	-	75-125	-	20
Nickel, Total	4.70	44.8	42.6	84		-	-	75-125	-	20
Potassium, Total	282.	896	1100	91		-	-	75-125	-	20
Selenium, Total	0.380J	10.8	10.7	99		-	-	75-125	-	20
Silver, Total	ND	26.9	25.5	95		-	-	75-125	-	20
Sodium, Total	66.9J	896	880	98		-	-	75-125	-	20
Thallium, Total	ND	10.8	8.69	81		-	-	75-125	-	20
Vanadium, Total	6.44	44.8	47.0	90		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,11 QC Batch ID: WG1113824-3 QC Sample: L1814684-06 Client ID: MS Sample									
Zinc, Total	23.7	44.8	66.9	96	-	-	75-125	-	20

Lab Duplicate Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13 QC Batch ID: WG1113260-4 QC Sample: L1815844-02 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,11 QC Batch ID: WG1113515-4 QC Sample: L1816411-10 Client ID: DUP Sample						
Mercury, Total	0.106	0.109	mg/kg	3		20
Total Metals - Mansfield Lab Associated sample(s): 03,06,09,11 QC Batch ID: WG1113824-4 QC Sample: L1814684-06 Client ID: DUP Sample						
Arsenic, Total	2.32	1.84	mg/kg	**23**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-01
Client ID: TP-30_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/04/18 09:15
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.4		%	0.100	NA	1	-	05/08/18 11:32	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-02
Client ID: TP-30_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/04/18 09:20
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.7		%	0.100	NA	1	-	05/08/18 11:32	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-03
Client ID: TP-30_COMP
Sample Location: YONKERS, NY

Date Collected: 05/04/18 09:30
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.7		%	0.100	NA	1	-	05/08/18 11:32	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/07/18 04:30	05/07/18 12:29	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.892	0.178	1	05/07/18 04:45	05/08/18 10:52	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-04
Client ID: TP-31_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/04/18 07:45
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.0		%	0.100	NA	1	-	05/08/18 11:32	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-05
Client ID: TP-31_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/04/18 07:50
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.2		%	0.100	NA	1	-	05/08/18 11:32	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-06
Client ID: TP-31_COMP
Sample Location: YONKERS, NY

Date Collected: 05/04/18 08:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.5		%	0.100	NA	1	-	05/08/18 11:32	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	05/07/18 04:30	05/07/18 12:30	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.894	0.179	1	05/07/18 04:45	05/08/18 10:52	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-07
Client ID: TP-32_GRAB-1
Sample Location: YONKERS, NY

Date Collected: 05/04/18 09:45
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.0		%	0.100	NA	1	-	05/08/18 11:32	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-08
Client ID: TP-32_GRAB-2
Sample Location: YONKERS, NY

Date Collected: 05/04/18 09:55
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.9		%	0.100	NA	1	-	05/08/18 12:35	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-09
Client ID: TP-32_COMP
Sample Location: YONKERS, NY

Date Collected: 05/04/18 10:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.4		%	0.100	NA	1	-	05/08/18 12:35	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	05/07/18 04:30	05/07/18 12:31	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.866	0.173	1	05/07/18 04:45	05/08/18 10:52	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-10
Client ID: TP-X-050418-G
Sample Location: YONKERS, NY

Date Collected: 05/04/18 00:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.5		%	0.100	NA	1	-	05/08/18 12:35	121,2540G	RI

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-11
Client ID: TP-X-050415-C
Sample Location: YONKERS, NY

Date Collected: 05/04/18 00:00
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.7		%	0.100	NA	1	-	05/08/18 12:35	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	05/07/18 04:30	05/07/18 12:32	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.892	0.178	1	05/07/18 04:45	05/08/18 10:52	1,7196A	NH

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

SAMPLE RESULTS

Lab ID: L1816155-13
Client ID: FB02
Sample Location: YONKERS, NY

Date Collected: 05/04/18 10:25
Date Received: 05/04/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/08/18 07:20	05/08/18 13:31	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/05/18 03:25	05/05/18 03:39	1,7196A	UN

Project Name: FORMER BICC
Project Number: 056970006
Lab Number: L1816155
Report Date: 05/11/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 13 Batch: WG1112877-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	05/05/18 03:25	05/05/18 03:37	1,7196A	UN
General Chemistry - Westborough Lab for sample(s): 03,06,09,11 Batch: WG1113153-1										
Cyanide, Total	ND		mg/kg	0.87	0.18	1	05/07/18 04:30	05/07/18 12:18	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 03,06,09,11 Batch: WG1113165-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	05/07/18 04:45	05/08/18 10:52	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 13 Batch: WG1113509-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	05/08/18 07:20	05/08/18 13:11	1,9010C/9012B	LH

Lab Control Sample Analysis

Batch Quality Control

Project Name: FORMER BICC

Project Number: 056970006

Lab Number: L1816155

Report Date: 05/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 13 Batch: WG1112877-2								
Chromium, Hexavalent	96		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 03,06,09,11 Batch: WG1113153-2 WG1113153-3								
Cyanide, Total	**27**	Q	**62**	Q	80-120	**83**	Q	35
General Chemistry - Westborough Lab Associated sample(s): 03,06,09,11 Batch: WG1113165-2								
Chromium, Hexavalent	85		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 13 Batch: WG1113509-2 WG1113509-3								
Cyanide, Total	94		94		85-115	0		20

Matrix Spike Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 13 QC Batch ID: WG1112877-4 QC Sample: L1816155-13 Client ID: FB02												
Chromium, Hexavalent	ND	0.1	0.101	101		-	-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 03,06,09,11 QC Batch ID: WG1113153-4 WG1113153-5 QC Sample: L1816061-01 Client ID: MS Sample												
Cyanide, Total	ND	11	10	93		9.4	87		75-125	6		35
General Chemistry - Westborough Lab Associated sample(s): 03,06,09,11 QC Batch ID: WG1113165-4 QC Sample: L1816155-11 Client ID: TP-X-050415-C												
Chromium, Hexavalent	ND	788	776	98		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 13 QC Batch ID: WG1113509-4 WG1113509-5 QC Sample: L1816406-01 Client ID: MS Sample												
Cyanide, Total	0.050	0.2	0.226	88		0.219	84		80-120	3		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 13 QC Batch ID: WG1112877-3 QC Sample: L1816155-13 Client ID: FB02						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 03,06,09,11 QC Batch ID: WG1113165-6 QC Sample: L1816155-11 Client ID: TP-X-050415-C						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-07 QC Batch ID: WG1113658-1 QC Sample: L1816146-01 Client ID: DUP Sample						
Solids, Total	91.0	90.8	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 08-11 QC Batch ID: WG1113672-1 QC Sample: L1816185-01 Client ID: DUP Sample						
Solids, Total	87.4	87.5	%	0		20

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1816155-01A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1816155-01B	Vial water preserved	A	NA		2.2	Y	Absent	05-MAY-18 06:34	NYTCL-8260HLW(14)
L1816155-01C	Vial water preserved	A	NA		2.2	Y	Absent	05-MAY-18 06:34	NYTCL-8260HLW(14)
L1816155-01D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1816155-02A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1816155-02B	Vial water preserved	A	NA		2.2	Y	Absent	05-MAY-18 06:34	NYTCL-8260HLW(14)
L1816155-02C	Vial water preserved	A	NA		2.2	Y	Absent	05-MAY-18 06:34	NYTCL-8260HLW(14)
L1816155-02D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1816155-03A	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1816155-03B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1816155-03C	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1816155-03D	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1816155-04A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1816155-04B	Vial water preserved	A	NA		2.2	Y	Absent	05-MAY-18 06:34	NYTCL-8260HLW(14)
L1816155-04C	Vial water preserved	A	NA		2.2	Y	Absent	05-MAY-18 06:34	NYTCL-8260HLW(14)
L1816155-04D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1816155-05A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1816155-05B	Vial water preserved	A	NA		2.2	Y	Absent	05-MAY-18 06:34	NYTCL-8260HLW(14)
L1816155-05C	Vial water preserved	A	NA		2.2	Y	Absent	05-MAY-18 06:34	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1816155-05D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1816155-06A	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1816155-06B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1816155-06C	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1816155-06D	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1816155-07A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1816155-07B	Vial water preserved	A	NA		2.2	Y	Absent	05-MAY-18 06:34	NYTCL-8260HLW(14)
L1816155-07C	Vial water preserved	A	NA		2.2	Y	Absent	05-MAY-18 06:34	NYTCL-8260HLW(14)
L1816155-07D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1816155-08A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1816155-08B	Vial water preserved	A	NA		2.2	Y	Absent	05-MAY-18 06:34	NYTCL-8260HLW(14)
L1816155-08C	Vial water preserved	A	NA		2.2	Y	Absent	05-MAY-18 06:34	NYTCL-8260HLW(14)
L1816155-08D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1816155-09A	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1816155-09B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1816155-09C	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1816155-09D	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1816155-10A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L1816155-10B	Vial water preserved	A	NA		2.2	Y	Absent	05-MAY-18 06:34	NYTCL-8260HLW(14)
L1816155-10C	Vial water preserved	A	NA		2.2	Y	Absent	05-MAY-18 06:34	NYTCL-8260HLW(14)
L1816155-10D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L1816155-11A	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: FORMER BICC
Project Number: 056970006

Lab Number: L1816155
Report Date: 05/11/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1816155-11B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1816155-11C	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1816155-11D	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1816155-12A	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L1816155-12B	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L1816155-12C	Vial HCl preserved	A	NA		2.2	Y	Absent		NYTCL-8260(14)
L1816155-13A	Vial HCl preserved	B	NA		3.9	Y	Absent		NYTCL-8260(14)
L1816155-13B	Vial HCl preserved	B	NA		3.9	Y	Absent		NYTCL-8260(14)
L1816155-13C	Vial HCl preserved	B	NA		3.9	Y	Absent		NYTCL-8260(14)
L1816155-13D	Plastic 250ml unpreserved	B	7	7	3.9	Y	Absent		HEXCR-7196(1)
L1816155-13E	Plastic 250ml HNO3 preserved	B	<2	<2	3.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1816155-13F	Plastic 250ml NaOH preserved	B	>12	>12	3.9	Y	Absent		TCN-9010(14)
L1816155-13G	Amber 120ml unpreserved	B	7	7	3.9	Y	Absent		NYTCL-8081(7)
L1816155-13H	Amber 120ml unpreserved	B	7	7	3.9	Y	Absent		NYTCL-8081(7)
L1816155-13I	Amber 1000ml unpreserved	B	7	7	3.9	Y	Absent		NYTCL-8270(7)
L1816155-13J	Amber 1000ml unpreserved	B	7	7	3.9	Y	Absent		NYTCL-8270(7)
L1816155-13K	Amber 1000ml unpreserved	B	7	7	3.9	Y	Absent		HERB-APA(7)
L1816155-13L	Amber 1000ml unpreserved	B	7	7	3.9	Y	Absent		HERB-APA(7)
L1816155-13M	Amber 1000ml unpreserved	B	7	7	3.9	Y	Absent		NYTCL-8082-1200ML(7)
L1816155-13N	Amber 1000ml unpreserved	B	7	7	3.9	Y	Absent		NYTCL-8082-1200ML(7)

*Values in parentheses indicate holding time in days

Project Name:	FORMER BICC	**Lab Number:**	L1816155
Project Number:	056970006	**Report Date:**	05/11/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER BICC	**Lab Number:**	L1816155
Project Number:	056970006	**Report Date:**	05/11/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	FORMER BICC	**Lab Number:**	L1816155
Project Number:	056970006	**Report Date:**	05/11/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA ANALYTICAL

NEW YORK CHAIN OF CUSTODY

Page 1 of 2

Date Rec'd in Lab: 5/4/18

ALPHA Job #: L1815155

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers: Mahwah, NJ 07430: 35 Whitney Rd, Suite 5; Albany, NY 12205: 14 Walker Way; Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Client Information

Client: PS&S Engineering, Inc
Address: 1 Larkin Plaza 2nd Floor, Yonkers, NY 10701
Phone: 914 509 8800
Fax:
Email: scaporizzo@psands.com

Project Information

Project Name: Former BICC
Project Location: Yonkers, NY
Project #: 05697000b
(Use Project name as Project #)
Project Manager: Scott Caporizzo (203-252-4015)
ALPHAQuote #:

Turn-Around Time

Standard: X — Due Date:
Rush (only if pre approved): ☐ — # of Days:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☒ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☒ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☒ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☒ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

Sample Filtration

☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TS - SM 2540	NYTCL-8260	Metals 6010/Hg	Hex Cr EPA 7196	Pest/Herbs/TCN	ALK, tr. Cr	NYTCL-8270	Sample Specific Comments
16155-01	TP-30_Grab-1	5/4/18	0915	SOIL	ES	X	X						
-02	TP-30_Grab-2		0930			X	X						
-03	TP-30_Comp		0930			X		X	X	X	X	X	
-04	TP-31_Grab-1		0745			X	X						
-05	TP-31_Grab-2		0750			X	X						
-06	TP-31_Comp		0800			X		X	X	X	X	X	
-07	TP-32_Grab-1		0945			X	X						
-08	TP-32_Grab-2		0955			X	X						
-09	TP-32_Comp	↓	1000	↓	↓	X		X	X	X	X	X	

Preservative Code: A = None; B = HCl; C = HNO_3; D = H_2SO_4; E = NaOH; F = MeOH; G = $NaHSO_4$; H = $Na_2S_2O_3$; K/E = Zn Ac/NaOH; O = Other

Container Code: P = Plastic; A = Amber Glass; V = Vial; G = Glass; B = Bacteria Cup; C = Cube; O = Other; E = Encore; D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	P	V	A	A	A	A	A						
Preservative	A	1-F 2-430	A	A	A	A	A						

Relinquished By:	Date/Time	Received By:	Date/Time
	5/4/18 1115	AAL	5/4/18 1022
	5/4/18 1922		5/4/18 1945
	5/4/18 2330		5/4/18 2330

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2 of 2

Date Rec'd in Lab: 5/4/18

ALPHA Job #: L1814175

Client Information
Client: PS&S Engineering, Inc
Address: 1 Larkin Plaza 2nd Floor
Yonkers, NY 10701
Phone: 914 509 8000
Fax:
Email: scaporizzo@psands.com

Project Information
Project Name: Former BICC
Project Location: Yonkers, NY
Project #: 05697.0006
(Use Project name as Project #)
Project Manager: Scott Caporizzo (203-252-4015)
ALPHAQuote #:

Turn-Around Time
Standard: X
Rush (only if pre approved):
Due Date:
# of Days:

These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

Deliverables
- ASP-A
- ASP-B: X
- EQuIS (1 File)
- EQuIS (4 File): X
- Other

Regulatory Requirement
- NY TOGS
- NY Part 375: X
- AWQ Standards
- NY CP-51
- NY Restricted Use: X
- Other
- NY Unrestricted Use
- NYC Sewer Discharge

Billing Information
- Same as Client Info: X
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
- NJ
- NY
- Other:

ANALYSIS

Sample Filtration
- Done
- Lab to do

Preservation
- Lab to do

(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TS - SM 2540	NYTCL - 8260	Metals 6010/7470	Hex Cr EPA 7196	Pest/Herb/PCB NYTCL	PCB, TIC, Cr	NYTCL - 8270	TB-1	Sample Specific Comments
16155-10	TP-X-050418-G	5/4/18		Soil	ES	X	X							5
-11	TP-X-050418-C	↓		↓	↓	X		X	X	X	X	X		
-12	~~TB~~ Trip Blank	5/1/18		Water	BJ								X	3
-13	FB02	5/4/18	1025	↓	ES		X	X	X	X	X	X		14
	FB02 Container						V	P	P	A	A	A		
	FB02 Preservative						B	C	A	A	A	A		

Container Type: P | V | A | A | A | A | A | V
Preservative: A | 1-F 2-H2O | A | A | A | A | A | B

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
Eric Strong	5/4/18 1115	Clarke Thorne TAL	5/4/18 158
Clarke Thorne	5/4/18 1922	Paul Mazzella	5/4/18 1935
Paul Mazzella	5/4/18 2330		5/4/18 2330

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Caporizzo, Scott

From: Hubicki, Matthew S (DEC) <matthew.hubicki@dec.ny.gov>
Sent: Friday, April 13, 2018 3:01 PM
To: Caporizzo, Scott
Cc: Crosby, David (DEC); Deyette, Scott (DEC); Gorelick, Hindy; Mandelbaum, Jack; Salinas, L. Miguel; DiGerolamo, Lisa; Israel, Camila
Subject: RE: Former BICC Cables Site (NYSDEC Site No. C360051): Existing Fill Sampling Plan

Scott – We've reviewed the sampling plan for the existing fill at BICC Cable Site C360051. This existing fill sampling plan is approved, and we are able to meet on-site if you are ready to start next week. As discussed, Scott Deyette will be down in Yonkers, and I'm available Tuesday, Thurs, or Friday to meet on-site.

Thanks
Matt

Matthew Hubicki
Project Manager, Remedial Bureau C
Division of Environmental Remediation

New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7014
P: 518-402-9605 | F: 518-402-9679 | matthew.hubicki@dec.ny.gov

www.dec.ny.gov |

From: Caporizzo, Scott [mailto:scaporizzo@psands.com]
Sent: Friday, April 13, 2018 10:47 AM
To: Hubicki, Matthew S (DEC) <matthew.hubicki@dec.ny.gov>
Cc: Crosby, David (DEC) <david.crosby@dec.ny.gov>; Deyette, Scott (DEC) <scott.deyette@dec.ny.gov>; Gorelick, Hindy <HGorelick@extell.com>; Mandelbaum, Jack <JMandelbaum@extell.com>; Salinas, L. Miguel <lsalinas@psands.com>; DiGerolamo, Lisa <ldigerolamo@psands.com>; Israel, Camila <cIsrael@psands.com>
Subject: Former BICC Cables Site (NYSDEC Site No. C360051): Existing Fill Sampling Plan

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Good morning Matthew,

Attached for your review is the Existing Fill Sampling Work Plan for the Former BICC Cables Site (NYSDEC Site No. C360051). As discussed, this Work Plan details the proposed scope of work for evaluating the observed fill placed above the asphalt cover system at the Site. Please refer to the attached Work Plan for additional information.

Feel free to give me a call if you have any questions or comments.

Regards,
Scott Caporizzo, E.I.T.

o. 914-226-3722
c. 203-252-4015
scaporizzo@psands.com

ELECTRONIC MAIL SUBMISSION

April 13, 2018

Mr. Matthew Hubicki
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7017
Via email to matthew.hubicki@dec.ny.gov

Education
Energy Utility
Hospitality
Public Sector
Real Estate
Science & Technology

RE: *Former BICC Cables Site (Extell Waterfront Development)*
One Point Street
Yonkers, New York, 10701
BCP Site No. C360051
Existing Fill Sampling Work Plan

Dear Mr. Hubicki,

1.0 Introduction

On behalf of Extell Waterfront Development, LLC (Extell), Paulus, Sokolowski and Sartor Engineering, PC (PS&S) has prepared this Existing Fill Sampling Work Plan (Work Plan) to characterize the fill placed at the Site above the existing asphalt pavement cover system for compliance with criteria for Backfill from Off-site Sources as detailed in Section A-10 of the Excavation Work Plan (EWP) [Attachment 13 of the Site Management Plan (SMP)].

2.0 Background

Beginning in 2015, fill was imported to the Site for elevation grading purposes above the existing asphalt pavement cover system. As documented in Final Engineering Report (FER), dated May 8, 2017, 10,000 cubic yards of Central Park Avenue Project (CPAP) source materials were approved by NYSDEC for import to the Site. In early 2017, an additional 3,000 cubic yards of CPAP source materials were approved by NYSDEC for import to the Site.

As discussed with NYSDEC, PS&S observed in February 2018 that fill had been delivered and placed at the Site above the asphalt pavement cover system for which source location(s) documentation was not submitted to NYSDEC for review and approval prior to import to the Site.

In March 2018, PS&S conducted a topographic survey of the observed limits of fill at the Site above the asphalt pavement cover system, as shown in Attachment A. This March 2018 topographic survey was used to estimate the approximate amount of fill placed at the Site above the asphalt pavement cover system by comparing current topographic conditions to the Site's topographic mapping prepared by Ward Carpenter in December 2011 (i.e., prior

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to fill operations above the asphalt pavement cover system). Based on a comparison of the two surveys, it is estimated an approximate 43,000 cubic yard volume differential exists between the two topographic surfaces.

3.0 Existing Fill Sampling Work Plan

PS&S is proposing to characterize the estimated 43,000 cubic yards of fill placed at the Site above the existing asphalt pavement cover system, using the protocol described below in order to document compliance with criteria for Backfill from Off-site Sources as detailed in Section A-10 of the EWP (Attachment 13 of the SMP).

As outlined in the Site's EWP, Section A-10, Backfill from Off-Site Source's, the imported soil will be evaluated in general compliance with standards established in DER-10. Section 5.4(e)10 "Sampling fill imported to a Site".

The Existing Fill Sample Location Map (Attachment A) depicts the area of the Site where fill was placed above the asphalt pavement cover separated into 21 approximately 1,000 cubic yard grid units and 11 approximately 2,000 cubic yard grid units (32 grid units in total). Test pit excavation sampling is proposed within each grid unit, with grab and composite sample frequency established using Table 5.4(e)10 of DER-10. The table presented in Attachment B summarizes for each grid: grid dimensions and volume, and sample interval and type.

Grab samples and composite samples will be collected across the vertical profile as test pit excavation is extended from the current Site grade to the top of the existing asphalt pavement cover system. Three to five discrete samples collected within a test pit will comprise a composite sample. Sample locations will be biased to the suspected location of greatest contamination, if any.

Grab samples will be analyzed for VOCs and composite samples will be analyzed SVOCs, PCBs, Pesticides, Herbicides and Metals identified in in DER-10, Appendix 5.

As discussed with NYSDEC, during test pit excavation activities, work zone real-time monitoring for VOCs and particulates (i.e., dust) will be conducted. Test pit excavation materials will also be visually assessed for compliance and field screened with a photo-ionization detector (PID). Any fill materials displaying visual or olfactory signs of contamination during the test pit investigation will be segregated for off-site disposal. Further, any observed soil materials containing elevated levels (i.e., greater than trace amounts) of brick, glass, or other miscellaneous debris content will be segregated for off-site disposal.

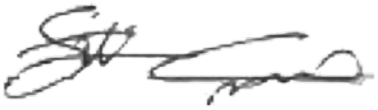
Sample results will be compared to the lesser of Restricted Residential and Protection of Groundwater Soil Cleanup Objectives (SCO), which is the allowable constituent levels for imported fill, as identified in the Site's SMP.

3.0 Reporting

PS&S will prepare a report which will document visual (e.g., photolog) and analytical results of the Work Plan. The report will also document materials which are proposed for NYSDEC approval to remain on-site and, if any, materials which have been identified as non-compliant and are proposed for further delineation and/or off-site disposal.

PS&S appreciates your review of this Work Plan. Should you have any questions or require additional information, please contact me at 914-226-3722 or at scaporizzo@psands.com.

Very truly yours,



Scott P. Caporizzo, E.I.T.
PAULUS, SOKOLOWSKI AND SARTOR ENGINEERING, PC

Attachments:

1. Attachment A – Existing Fill Sample Location Map
2. Attachment B – Test Pit Sample Collection Summary Table

CC: David Crosby, NYSDEC; Scott Deyette, NYSDEC; Jack Mandelbaum, Extell; Hindy Gorelick, Extell; M. Salinas, PS&S; C. Israel, PS&S

ATTACHMENT A

Existing Fill Sample Location Map



GRAPHIC SCALE

50 0 25 50 100

(IN FEET)

1 inch = 50 ft.

REV. / ISSUE	DATE	DESCRIPTION

CONSULTANT

ORIENTATION / KEY PLAN

LEGEND:

- FILL MATERIAL SAMPLING GRID LINE
- TP-31 — PROPOSED TEST PIT LOCATIONS
- LIMITS OF OBSERVED FILL MATERIAL
- 31 — FILL MATERIAL SAMPLING GRID IDENTIFICATION
- 155' x 50' x 3.5' (1) — GRID DIMENSIONS (LxWxD) NO. OF LAYERS

CLIENT

PAULUS, SOKOLOWSKI AND SARTOR, LLC.

67A MOUNTAIN BLVD EXT.
P.O. BOX 4039
WARREN, NJ 07059
PHONE: (732) 560-9700

CERTIFICATE OF AUTHORIZATION NO. 24GA28032700

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PROJECT

EXTELL ON THE HUDSON
POINT STREET LANDING

CITY OF YONKERS, WESTCHESTER COUNTY, NEW YORK

SHEET TITLE

EXISTING FILL SAMPLING MAP

PROJECT NO.: 05697-003 | DRAWN BY:
SCALE: AS SHOWN | CHECKED BY:
DATE: 4/04/2018 | SHEET 1 OF 1

SHEET NO.

FIGURE-1

FILE NAME: P:\05697\05697DWG\05697DWG\05697Figures\05697FIG1-EXISTING FILL SAMPLING MAP.dwg LAST EDIT: 04/05/2018 - 03:37:30 PM USER: mwinnerl
PLOT DATE: 04/05/2018 - 03:37:30 PM USER: mwinnerl

ATTACHMENT B

Test Pit Sample Collection Summary Table

Attachment B: Test Pit Sample Collection Summary Table
Former BICC Cables Site
Yonkers, New York
NYSDEC Site Number:C360051

Grid No.	Grid Dimensions (Length x Width x Depth bgs) (ft)	Approximate Grid Volume (CY)	Test Pit ID	Sample Interval (Depth bgs) (ft)	Sample ID	Sample Type
1	55 x 55 x 9.5	1000	TP-1A	0 - 9.5	TP-1A_COMP	Composite
					TP-1A_GRAB-1	Grab
					TP-1A_GRAB-2	Grab
					TP-1A_GRAB-3	Grab
					TP-1A_GRAB-4	Grab
			TP-1B	0 - 9.5	TP-1B_COMP	Composite
					TP-1B_GRAB-1	Grab
					TP-1B_GRAB-2	Grab
					TP-1B_GRAB-3	Grab
2	65 x 55 x 8	1000	TP-2	0 - 8	TP-2_COMP	Composite
					TP-2_GRAB-1	Grab
					TP-2_GRAB-2	Grab
3	65 x 55 x 8	1000	TP-3	0 - 8	TP-3_COMP	Composite
					TP-3_GRAB-1	Grab
					TP-3_GRAB-2	Grab
4	95 x 40 x 7	1000	TP-4	0 - 7	TP-4_COMP	Composite
					TP-4_GRAB-1	Grab
					TP-4_GRAB-2	Grab
5	95 x 70 x 8	2000	TP-5	0 - 4	TP-5A_COMP	Composite
					TP-5A_GRAB-1	Grab
					TP-5A_GRAB-2	Grab
				4 - 8	TP-5B_COMP	Composite
					TP-5B_GRAB-1	Grab
					TP-5B_GRAB-2	Grab
6	80 x 45 x 7.5	1000	TP-6	0 - 7.5	TP-6_COMP	Composite
					TP-6_GRAB-1	Grab
					TP-6_GRAB-2	Grab
7	80 x 80 x 8.5	2000	TP-7	0 - 4.25	TP-7A_COMP	Composite
					TP-7A_GRAB-1	Grab
					TP-7A_GRAB-2	Grab
				4.25 - 8.5	TP-7B_COMP	Composite
					TP-7B_GRAB-1	Grab
					TP-7B_GRAB-2	Grab
8	100 x 50 x 5.5	1000	TP-8	0 - 5.5	TP-8_COMP	Composite
					TP-8_GRAB-1	Grab
					TP-8_GRAB-2	Grab
9	100 x 60 x 9	2000	TP-9	0 - 4.5	TP-9A_COMP	Composite
					TP-9A_GRAB-1	Grab
					TP-9A_GRAB-2	Grab
				4.5 - 9	TP-9B_COMP	Composite
					TP-9B_GRAB-1	Grab
					TP-9B_GRAB-2	Grab
10	100 x 50 x 11	2000	TP-10	0 - 5.5	TP-10A_COMP	Composite
					TP-10A_GRAB-1	Grab
					TP-10A_GRAB-2	Grab
				5.5 - 11	TP-10B_COMP	Composite
					TP-10B_GRAB-1	Grab
					TP-10B_GRAB-2	Grab
11	100 x 50 x 11	2000	TP-11	0 - 5.5	TP-11A_COMP	Composite
					TP-11A_GRAB-1	Grab
					TP-11A_GRAB-2	Grab
				5.5 - 11	TP-11B_COMP	Composite
					TP-11B_GRAB-1	Grab
					TP-11B_GRAB-2	Grab
12	100 x 50 x 5.5	1000	TP-12	0 - 5.5	TP-12_COMP	Composite
					TP-12_GRAB-1	Grab
					TP-12_GRAB-2	Grab
13	100 x 60 x 9	2000	TP-13	0 - 4.5	TP-13A_COMP	Composite
					TP-13A_GRAB-1	Grab
					TP-13A_GRAB-2	Grab
				4.5 - 9	TP-13B_COMP	Composite
					TP-13B_GRAB-1	Grab
					TP-13B_GRAB-2	Grab
14	100 x 50 x 11	2000	TP-14	0 - 5.5	TP-14A_COMP	Composite
					TP-14A_GRAB-1	Grab
					TP-14A_GRAB-2	Grab
				5.5 - 11	TP-14B_COMP	Composite
					TP-14B_GRAB-1	Grab
					TP-14B_GRAB-2	Grab

Attachment B: Test Pit Sample Collection Summary Table
Former BICC Cables Site
Yonkers, New York
NYSDEC Site Number:C360051

Grid No.	Grid Dimensions (Length x Width x Depth bgs) (ft)	Approximate Grid Volume (CY)	Test Pit ID	Sample Interval (Depth bgs) (ft)	Sample ID	Sample Type
15	100 x 50 x 11	2000	TP-15	0 - 5.5	TP-15A_COMP	Composite
					TP-15A_GRAB-1	Grab
					TP-15A_GRAB-2	Grab
				5.5 - 11	TP-15B_COMP	Composite
					TP-15B_GRAB-1	Grab
					TP-15B_GRAB-2	Grab
16	225 x 50 x 2.4	1000	TP-16	0 - 2.4	TP-16_COMP	Composite
					TP-16_GRAB-1	Grab
					TP-16_GRAB-2	Grab
17	115 x 60 x 8	2000	TP-17	0 - 4	TP-17A_COMP	Composite
					TP-17A_GRAB-1	Grab
					TP-17A_GRAB-2	Grab
				4 - 8	TP-17B_COMP	Composite
					TP-17B_GRAB-1	Grab
					TP-17B_GRAB-2	Grab
18	125 x 50 x 8.5	2000	TP-18	0 - 4.25	TP-18A_COMP	Composite
					TP-18A_GRAB-1	Grab
					TP-18A_GRAB-2	Grab
				4.25 - 8.5	TP-18B_COMP	Composite
					TP-18B_GRAB-1	Grab
					TP-18B_GRAB-2	Grab
19	125 x 50 x 8.5	2000	TP-19	0 - 4.25	TP-19A_COMP	Composite
					TP-19A_GRAB-1	Grab
					TP-19A_GRAB-2	Grab
				4.25 - 8.5	TP-19B_COMP	Composite
					TP-19B_GRAB-1	Grab
					TP-19B_GRAB-2	Grab
20	100 x 60 x 4.5	1000	TP-20	0 - 4.5	TP-20_COMP	Composite
					TP-20_GRAB-1	Grab
					TP-20_GRAB-2	Grab
21	100 x 50 x 5.5	1000	TP-21	0 - 5.5	TP-21_COMP	Composite
					TP-21_GRAB-1	Grab
					TP-21_GRAB-2	Grab
22	100 x 50 x 5.5	1000	TP-22	0 - 5.5	TP-22_COMP	Composite
					TP-22_GRAB-1	Grab
					TP-22_GRAB-2	Grab
23	220 x 50 x 2.4	1000	TP-23	0 - 2.4	TP-23_COMP	Composite
					TP-23_GRAB-1	Grab
					TP-23_GRAB-2	Grab
24	150 x 60 x 3	1000	TP-24	0 - 3	TP-24_COMP	Composite
					TP-24_GRAB-1	Grab
					TP-24_GRAB-2	Grab
25	100 x 50 x 5.5	1000	TP-25	0 - 5.5	TP-25_COMP	Composite
					TP-25_GRAB-1	Grab
					TP-25_GRAB-2	Grab
26	100 x 50 x 5.5	1000	TP-26	0 - 5.5	TP-26_COMP	Composite
					TP-26_GRAB-1	Grab
					TP-26_GRAB-2	Grab
27	225 x 60 x 2	1000	TP-27	0 - 2	TP-27_COMP	Composite
					TP-27_GRAB-1	Grab
					TP-27_GRAB-2	Grab
28	120 x 50 x 4.5	1000	TP-28	0 - 4.5	TP-28_COMP	Composite
					TP-28_GRAB-1	Grab
					TP-28_GRAB-2	Grab
29	110 x 50 x 5	1000	TP-29	0 - 5	TP-29_COMP	Composite
					TP-29_GRAB-1	Grab
					TP-29_GRAB-2	Grab
30	155 x 50 x 3.5	1000	TP-30	0 - 3.5	TP-30_COMP	Composite
					TP-30_GRAB-1	Grab
					TP-30_GRAB-2	Grab
31	155 x 50 x3.5	1000	TP-31	0 - 3.5	TP-31_COMP	Composite
					TP-31_GRAB-1	Grab
					TP-31_GRAB-2	Grab
32	150 x 90 x 2	1000	TP-32	0 - 2	TP-32_COMP	Composite
					TP-32_GRAB-1	Grab
					TP-32_GRAB-2	Grab