

Phase II Environmental Site Assessment

Extell Hudson Waterfront Development

159-161 Alexander Street
Yonkers, New York

EBI Project No. 1217000088

April 5, 2017

Prepared for:

Centennial Property Finance
12 East 49th Street 28th Floor
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Prepared by:



April 5, 2017

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Subject: Phase II Environmental Site Assessment
Extell Hudson Waterfront Development
159-161 Alexander Street, Yonkers, New York
EBI Project No. 1217000088

Dear Ms. Ludwigson:

In accordance with the Proposal and Standard Conditions for Engagement approved by yourself on March 9, 2017, EBI Consulting (dba EBI Consulting, hereinafter "EBI") is pleased to submit this Phase II Environmental Site Assessment (ESA) for the above-referenced property (herein referred to as the Subject Property).

This Report is addressed to *Centennial Finance Group* and such other persons as may be designated by *Centennial Finance Group* and respective successors and assigns. This Report is for the use and benefit of, and may be relied upon by, *Centennial Finance Group* or any affiliates; initial and subsequent holders from time to time of any debt and/or debt securities secured, directly or indirectly, any participation interest in such debt; any indenture trustee, servicer, or other agent acting on behalf of such holders of such debt and/or debt securities; rating agencies; and the institutional provider(s) from time to time of any liquidity facility or credit support for such financings, and their respective successors and assigns.

The information contained in this report has received appropriate technical review and approval. The conclusions represent professional judgments and are founded upon the findings of the investigations identified in the report and the interpretation of such data based on our experience and expertise according to the existing standard of care. No other warranty or limitation exists, either express or implied.

The conclusions of this Report are based on soil, soil gas and groundwater analytical data prepared by SGS Accutest, soil screening results obtained utilizing a field screening instrument, and field observations recorded by EBI personnel.

There are no intended or unintended third party beneficiaries to this Report, except as expressly stated herein.

EBI is an independent contractor, not an employee of either the issuer or the borrower, and its compensation was not based on the findings or recommendations made in the Report or on the closing of any business transaction.

Thank you for the opportunity to prepare this Report, and assist you with this project. Please call us if you have any questions or if we may be of further assistance.

Respectfully submitted,
EBI CONSULTING

Bryan Shaw
Author / Project Scientist

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The Environmental Professionals listed above performed this Phase II ESA in general conformance with the ASTM E1903-11 Standard Practice for Phase II ESAs. The listed individuals meet the qualifications for individuals completing or overseeing all appropriate inquiries, and possess sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding the existence of environmental conditions on the property. Any work completed on this Phase II ESA by an individual who is not considered an environmental professional was completed under the supervision or responsible charge of the environmental professional.

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I.0 INTRODUCTION

In accordance with our Proposal and Standard Conditions for Engagement, EBI Consulting (EBI) is pleased to submit our *Phase II Environmental Site Assessment (ESA) Report (Report)* on the property located at 159-161 Alexander Street, Yonkers, New York (the Subject Property). Mr. Bryan Shaw of EBI Consulting conducted the investigation at the Subject Property on March 21, 2017.

I.1 BACKGROUND

EBI was requested to conduct a limited subsurface investigation to evaluate the potential impact to the Subject Property from the following recognized environmental concern(s) identified in Langan Engineering (February 13, 2017) Phase I ESA report:

- Former uses of potential concern for the Subject Property include a boat manufacturing yard, a machine shop, steel fabrication plant, and flexographic manufacturing and printing. Prior to 2012, the Subject Property was operated by the Excelsior Transparent Bag Manufacturing Corporation for manufacturing and printing of bags since at least 1992. Evidence of former manufacturing equipment (ink mixing machine, ink storage vats, polyethylene bead aboveground storage tanks, former parts cleaning area, etc.) was observed on the Subject Property during the site inspection conducted during this ESA. Additionally, numerous floor drains were noted throughout the interior of the Subject Property. The discharge fate of the floor drains is a site-specific limitation with respect to this Phase I ESA. Without building plans (which were not provided) to identify where these drains discharge, it is unknown how these areas may be adversely affecting the environment. Based on the long history of the Subject Property, operational practices may have impacted conditions at the Subject Property that are not presently known to facility personnel or regulatory officials. Inadvertent and/or incidental releases of solvents, petroleum products, and/or other chemicals used during operations at the Subject Property may have adversely impacted soil, soil vapor and groundwater and is considered a REC.
- According to information provided in the Environmental Data Resources, Inc. (EDR) Report reviewed as part of this ESA, a former 2,000-gallon fuel oil underground storage tank (UST) was installed at the Subject Property on 1 December 1981 and was removed on 1 August 1997. According to a Phase I ESA prepared in April 2000 (HRP Associates, Inc.), the tank was historically used to heat the building on the north end of the Subject Property. No documentation of the condition of the UST system or soil conditions in the area of the UST subsequent to removal was obtained during this ESA. Based on the known presence of an historic tank and lack of any documentation of tank closure or associated soil sampling in the tank area, the historical UST is considered a REC.

I.2 STATEMENT OF OBJECTIVES

The primary objective of this Phase II ESA is to evaluate potential impact to the Subject Property from the recognized environmental conditions (RECs) identified in the Phase I ESA prepared by Langan Engineering (February 13, 2017) for the purpose of providing sufficient information regarding the nature and extent of contamination to assist in making informed business decisions about the property; and where applicable, providing the level of knowledge necessary to satisfy the innocent purchaser defense under CERCLA. The investigation focused on the entire Subject Property including the areas of suspected UST location and the former area where solvents were handled.

In order to achieve the objectives of this investigation, EBI performed the following tasks:

- Core Down Drilling requested Dig Safely New York (Ticket # 0313754002900) prior to undertaking subsurface explorations on-site.

- Advanced 13 borings by direct push geoprobe to depths ranging from 2.5 feet to 12 feet below ground surface (bgs).
- Collected continuous soil samples every four feet, field screened the vapor headspace of the soil samples for total ionizable volatile organic compounds (VOCs) using a photoionization detector (PID), and described the physical characteristics of the soil samples on boring logs.
- Selected one to two soil samples per boring (depending on recovery and/or groundwater presence), prepared, and submitted the samples under chain-of-custody documentation to a New York State certified independent laboratory for analysis of VOCs) via EPA Method 8260, semivolatile organic compounds (SVOCs) via EPA Method 8270, and Priority Pollutant 13 (PPI3) Metals (groundwater samples will be tested for dissolved metals). In addition, one soil sample from each boring was collected and analyzed for polychlorinated biphenyls (PCBs) via EPA Method 8082A.
- Collected six groundwater samples from temporary small-diameter PVC monitoring wells inserted into each boring using a peristaltic pump and disposable polyethylene tubing, prepared, and submitted the samples to a New York state-certified independent laboratory for analysis of VOCs by EPA Method 8260, SVOCs by EPA Method 8270 and Primary Pollutant-Metals.
- Collected four sub-slab soil vapor samples from the area beneath the existing buildings, and prepared and submitted the samples to a New York state-certified laboratory for analysis of VOCs via EPA Method TO-15.
- Prepared this summary of pertinent information obtained during this investigation including accompanying illustrations and appendices, along with EBI's findings and preliminary conclusions regarding the presence or absence of contamination in soils and groundwater beneath the Subject Property in the areas investigated.

1.3 LIMITATIONS AND ASSUMPTIONS

This *Report* was prepared for the use of *Centennial Finance Group*. It was performed in accordance with ASTM E1903-11, accepted practices of other consultants undertaking similar studies at the same time and in the same locale under like circumstances. The conclusions provided by EBI are based solely on the information obtained during the subsurface investigation. EBI renders no opinion as to the presence of potential contamination in the areas not investigated. The observations in this *Report* are valid on the date of the investigation. Any additional information that becomes available concerning the Subject Property should be provided to EBI so that our conclusions may be revised and modified, if necessary. This *Report* has been prepared in accordance with the proposal approved by *Centennial Finance Group* and with the limitations and assumptions described below, all of which are integral parts of this *Report*. No other warranty, expressed or implied, is made.

Limitations

1. The observations described in this *Report* were made under the conditions stated herein. The conclusions presented are based solely upon the services described, and not on scientific tasks or procedures beyond the scope of described services or the time and budgetary constraints imposed by Client. The work described in this *Report* was carried out in accordance with terms and conditions in our Authorization Letter and Agreement for Environmental Services regarding the Site, which are incorporated herein by references.
2. In preparing this *Report*, EBI has relied on certain information provided by state and other referenced parties, and on information contained in the files of federal, state and/or local agencies

available to EBI at the time of the assessment. Although there may have been some degree of overlap in the information provided by these various sources, EBI did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of these Environmental Services.

3. Observations were made of the Site and of structures on the Site as indicated within the Report. Where access to portions of the Site or to structures on the Site was unavailable or limited, EBI renders no opinion as to the presence of oil or hazardous materials (OHM) in that portion of the Site or structure. In addition, EBI renders no opinion as to the presence of OHM or the presence of indirect evidence relating to OHM where direct observation of the interior walls, floor, or ceiling of a structure on a Site was obstructed by objects or coverings on or over these surfaces. No representations concerning insulating material is expressed or implied.
4. EBI did not perform testing or analyses to determine the presence or concentration of asbestos, radon, or lead at the Site unless specifically stated otherwise in the Report. Similarly, no investigation of dust or air quality was conducted unless specifically stated otherwise in the Report.
5. The purpose of this Report is to assess the physical characteristics of the Site with respect to the presence of OHM in the environment. No specific attempt was made to determine the compliance of present or past owners or operators of the Site with federal, state, or local laws or regulations (environmental or otherwise).
6. Except as noted in the Report, no quantitative laboratory testing was performed as part of the assessment. Where such analyses have been conducted by an outside laboratory, EBI has relied upon the data provided, and has not conducted an independent evaluation of the reliability of this data.
7. Any qualitative or quantitative information regarding the Site, which was not available to EBI at the time of this assessment may result in a modification of the representations made herein.
8. It is acknowledged that EBI judgments shall not be based on scientific or technical test or procedures beyond the scope of the Services or beyond the time and budgetary constraints imposed by Client. It is acknowledged further that EBI conclusions shall not rest on pure science but on such considerations as economic feasibility and available alternatives. Client also acknowledges that, because geologic and soil formations are inherently random, variable, and indeterminate in nature, the Services and opinions provided under this Agreement with respect to such Services, are not guaranteed to be a representation of actual conditions on the Site, which are also subject to change with time as a result of natural or man-made processes, including water permeation. In performing the Services, EBI shall use that degree of care and skill ordinarily exercised by environmental consultants or engineers performing similar services in the same or similar locality. The standard of care shall be determined solely at the time the Services are rendered and not according to standards utilized at a later date. The Services shall be rendered without any other warranty, expressed or implied, including, without limitation, the warranty of merchant ability and the warranty of fitness for a particular purpose.
9. Client and EBI agree that to the fullest extent permitted by law, EBI shall not be liable to Client for any special, indirect or consequential damages whatsoever, whether caused by EBI's negligence, errors, omissions, strict liability, breach of contract, breach of warranty or other cause of causes whatsoever.

Assumptions

- I. This Phase II ESA does not address the evaluation of business environmental risks in light of data collected through the Phase II ESA process. Such evaluation is a function of site and transaction-specific variables, and of the user's objectives and risk tolerance. This practice contemplates that the Phase II ESA process was planned and conducted with such variables in mind, and that the user will

evaluate legal, business and environmental risks in light of known data relating to the particular site and transaction, and in consultation with legal and business advisors as well as the Phase II Assessor.

2. The ASTM E1903-11 does not define the threshold levels at which target analytes pose a concern of significance to the user. Users may apply this practice not only in light of applicable regulatory criteria and relevant liability principles, but also to meet self-defined objectives.
3. The scope of work for this Phase II ESA is site-specific and context-specific. The assessment process defined by ASTM E1903-11 is intended to generate sound, objective, and defensible information sufficient to satisfy diverse user objectives.
4. No Phase II ESA can eliminate all uncertainty. Furthermore, any sample, either surface or subsurface, taken for chemical testing may or may not be representative of a larger population. Professional judgment and interpretation are inherent in the process, and even when exercised in accordance with objective scientific principles, uncertainty is inevitable. Additional assessment beyond that which was reasonably undertaken may reduce the uncertainty.
5. Even when Phase II ESA work is executed competently and in accordance with ASTM E1903-11, it must be recognized that certain conditions present especially difficult target analyte detection problems. Such conditions may include, but are not limited to, complex geological settings, unusual or generally poorly understood behavior and fate characteristics of certain substances, complex, discontinuous, random, or spotty distributions of existing target analytes, physical impediments to investigation imposed by the location of utilities and other man-made objects, and the inherent limitations of assessment technologies.
6. The Phase II ESA is intended to develop and present sound, scientifically valid data concerning actual site conditions. It shall not be the role of the Phase II Assessor to provide legal or business advice.

1.4 SPECIAL TERMS AND CONDITIONS

This Phase II ESA (the report) has been prepared to assist Centennial Property Finance in its underwriting of a proposed mortgage loan on the Subject Property. This report can be relied upon by only the parties stated in the transmittal letter at the front of this report. EBI's liability to a purchaser wishing to use this report is limited to the cost of the report. Amendments to EBI's limitations as stated herein that may occur after issuance of the report are considered to be included in this report. Payment for the report is made by, and EBI's contract and report extends to Centennial Property Finance only, in accordance with our Standard Conditions for Engagement and, Authorization Letter and Agreement for Environmental Services.

2.0 SUBJECT PROPERTY BACKGROUND

2.1 SUBJECT PROPERTY DESCRIPTION AND FEATURES

Information regarding the Subject Property description, improvements, and operations is summarized below:

PROPERTY DESCRIPTION, IMPROVEMENTS, AND OPERATIONS	
Address	159-161 Alexander Street, Yonkers New York
Location	Terminus of Alexander Street
Number of Parcels	One
Total Land Area	7.55 Acres
Number/Type of Buildings	Two commercial buildings
Number of Stories	One- and two-story buildings
Date of Construction	1920's – 2000's
Area (SF)	±97,000
Basement	No
Operations	Vacant/film studio

2.2 PHYSICAL SETTING

Information regarding the physical settings at the Subject Property and immediate vicinity are summarized below:

PHYSICAL SETTING DESCRIPTIONS	
Regional Geology	Information concerning the geology of the Subject Property was obtained from the USGS National Water Summary (1984), New York region. The Subject Property is located within the New England Upland section of the New England physiographic province, which consists of a discontinuous mantle of till and stratified drift underlain by crystalline metamorphic and igneous rocks.
Depth to Bedrock	Bedrock was not encountered in the borings completed as part of this investigation
Surficial Features	Surface drainage on the Subject Property occurs over land to the Hudson River primarily to the west. No indication of cross-lot runoff, swales, drainage flows, or active rills or gullies were observed on the Subject Property.
Surficial Soils	According to the Soil Survey of Westchester County, the Subject Property is located in an area comprised of urban land and Udorthents, wet substratum.
Soil Stratigraphy Encountered during the Investigation	Brown medium sands and fill material was encountered to depths of 12-feet bgs
Estimated Direction of Groundwater Flow	Local groundwater gradient is expected to follow surface topography; therefore, groundwater flow near the Subject Property is expected to flow to the west. Groundwater depths and flow gradients are best evaluated by a subsurface investigation involving the installation of at least three groundwater-monitoring wells, survey of well elevations, and precise measurements of hydraulic head. Calculation of groundwater flow directions based on relative differences of hydraulic head on the Subject Property was not included in this scope of work.
Depth to Groundwater (encountered during the investigation)	Shallow groundwater was encountered in borings at depths ranging from 6.5-7 feet bgs.

2.3 SITE HISTORY AND LAND USE

According to the Phase I ESA prepared by Langan Engineering (February 13, 2017), the site history and land use is summarized in the following table:

Period	Site History And Land Use
At least 1898 to sometime prior to 1917	Undeveloped parcel.
1919 to 2012	Industrial/manufacturing use
2012 to Present	Vacant/film studio

2.4 ADJACENT PROPERTY LAND USE

Property use in the vicinity of the Subject Property is primarily characterized by commercial and industrial development.

ADJOINING PROPERTIES	
North	The Subject Property is bound to the north a parking lot/vehicle storage/former BICC Cables property followed by vacant lots
South	The Subject Property is bound to the south by PolyChrome West (R&D facility) site followed by commercial/industrial properties
East	The Subject Property is bound to the east Alexander Street/Polychrome Place followed by MTA train tracks, commercial/industrial properties
West	The Subject Property is bound to the west by the Hudson River

2.5 SUMMARY OF PREVIOUS ENVIRONMENTAL ASSESSMENTS

EBI was requested to conduct a Phase II ESA to evaluate the potential impact to the Subject Property from former industrial and manufacturing use based on the following recognized environmental concerns identified in Langan Engineering (February 13, 2017) Phase I ESA report:

- Former uses of potential concern for the Subject Property include a boat manufacturing yard, a machine shop, steel fabrication plant, and flexographic manufacturing and printing. Prior to 2012, the Subject Property was operated by the Excelsior Transparent Bag Manufacturing Corporation for manufacturing and printing of bags since at least 1992. Evidence of former manufacturing equipment (ink mixing machine, ink storage vats, polyethylene bead aboveground storage tanks, former parts cleaning area, etc.) was observed on the Subject Property during the site inspection conducted during this ESA. Additionally, numerous floor drains were noted throughout the interior of the Subject Property. The discharge fate of the floor drains is a site-specific limitation with respect to this Phase I ESA. Without building plans (which were not provided) to identify where these drains discharge, it is unknown how these areas may be adversely affecting the environment. Based on the long history of the Subject Property, operational practices may have impacted conditions at the Subject Property that are not presently known to facility personnel or regulatory officials. Inadvertent and/or incidental releases of solvents, petroleum products, and/or other chemicals used during operations at the Subject Property may have adversely impacted soil, soil vapor and groundwater and is considered a REC.
- According to information provided in the Environmental Data Resources, Inc. (EDR) Report reviewed as part of this ESA, a former 2,000-gallon fuel oil underground storage tank (UST) was installed at the Subject Property on 1 December 1981 and was removed on 1 August 1997. According to a Phase I ESA prepared in April 2000 (HRP Associates, Inc.), the tank was historically used to heat the building on the north end of the Subject Property. No documentation of the condition of the UST system or soil conditions in the area of the UST subsequent to removal was obtained during this ESA. Based on the known presence of an historic tank and lack of any documentation of tank closure or associated soil sampling in the tank area, the historical UST is considered a REC.

3.0 RATIONALE AND WORK PERFORMED

3.1 RATIONALE

3.1.1 Conceptual Model

The Conceptual Model is a representation of hypothesized current site conditions, which describes the physical setting characteristics of a site and the likely distribution of target contaminants (in soil, air, ground water, surface water and/or sediments) that might have resulted from a known or likely release and the risk they pose to human and/or ecological receptors. This Conceptual Model takes into consideration the potential distributions of contaminants with respect to the properties, behaviors and fate and transport characteristics of the contaminant in a setting such as that being assessed. The sampling plan was designed to provide for the collection of potentially contaminated environmental media, if they occur, at locations and depths where the highest concentrations are likely to occur.

Site Environmental Concerns		Site Physical Characteristics		Onsite Environmental Receptors	
RECs	COC's	Primary Release Media	Fate & Transport	Potential Exposure Route(s)	Potential Human Exposure
UST(s) Industrial/commercial facility	Volatile organic compounds (VOCs) Semi-volatile organic compounds (SVOCs) Metals Polychlorinated biphenyls (PCBs)	Soil Groundwater	Soil Soil Vapor Groundwater	Ingestion Inhalation Dermal (direct Contact)	Site workers Future Residents Future Tenants

COC = contaminants of concern

Assumptions:

1. Construction Worker exposure is limited due to short exposure duration

3.1.2 Rationale for Soil Boring Placement

The rationale for the placement of the soil borings was based on the 1) the *Likely Release Area(s)* that target analytes were first introduced into environmental media as a result of a release; and 2) the likely vertical and horizontal migration of the release.

3.1.3 Chemical Testing Plan

The chemical testing plan was designed to detect the target analytes that are present in, or have been released or potentially have been released to, environmental media at the site, and which are of interest in the context of the particular Phase II ESA and its objectives, the presence of which will be sought and concentrations of which will be quantified through chemical testing.

3.1.4 Deviations from the Work Plan

There were no deviations to the work plan.

3.2 EXPLORATION, SAMPLING, AND TEST SCREENING METHODS

3.2.1 Pre-Drilling Activities

Core Down Drilling requested Dig Safely New York to mark-out the location of Subject Property utilities on March 13, 2017. Clearance for drilling at the Subject Property was granted for after 7:00 a.m. on March 20, 2017.

Personal health and safety precautions were followed in accordance with applicable federal and state law or local equivalents and any requirements imposed by the owner, occupant, or field personnel. EBI prepared a site-specific health and safety plan (HASP) and conducted a health and safety meeting with the onsite personnel prior to the drilling activities. In addition to the Dig Safely notification, EBI engaged GPRS to prescreen proposed boring locations using ground penetrating radar (GPR) methods to evaluate for unmarked utilities.

3.2.2 Soil Borings

A total of 13 borings were advanced at the Subject Property. All of the soil borings were advanced using a direct-push geoprobe rig operated by Core Down Drilling of Brewster New York. Four-foot soil samples were collected continuously during the advancement of the borings. EBI recorded soil sampling information and the physical characteristics of each soil sample onto boring logs presented in Appendix B.

**TABLE 3.2.2
 SUMMARY OF SOIL BORING DETAILS**

Boring ID#	Location	Termination Depth/Reason (feet bgs)	Depth to Groundwater (feet)	Sample ID #/ Depths	Target Analytes/ EPA Method
SB-1	Central portion of the Subject Property	7 (equipment refusal)	Not encountered	S - SB-1 (0'-2') S - SB-1 (4.5'-6.5') S - SB-1 (6.5'-7')	VOCs/8260 SVOCs/ 8270 PP Metals/6010 PCBs/8082
SB-2	Southeast portion of the Subject Property	12 (groundwater encountered)	6.5	Soil SB-2 (2'-4) GW	VOCs/8260 SVOCs/ 8270 PP Metals/6010 PCBs/8082
SB-3	Southeast portion of the Subject Property	12 (groundwater encountered)	6.5	S - SB-3 (4'-6') GW	VOCs/8260 SVOCs/ 8270 PP Metals/6010 PCBs/8082
SB-4	Northern portion of the Subject Property (suspected UST area)	12 (groundwater encountered)	6.5	S - SB-4 (2'-4) GW	VOCs/8260 SVOCs/ 8270 PP Metals/6010 PCBs/8082
SB-5	Northern portion of the Subject Property (suspected UST area)	4.5 (equipment refusal)	Not encountered	S - SB-5 (2.5'-4.5)	VOCs/8260 SVOCs/ 8270 PP Metals/6010 PCBs/8082
SB-6	Western portion of the Subject Property	12 (groundwater encountered)	7	S - SB-6 (5'-7') GW	VOCs/8260 SVOCs/ 8270 PP Metals/6010 PCBs/8082
SB-7	Western portion of the Subject Property	12 (groundwater encountered)	7	S - SB-7 (5'-7') GW	VOCs/8260 SVOCs/ 8270 PP Metals/6010 PCBs/8082

Boring ID#	Location	Termination Depth/Reason (feet bgs)	Depth to Groundwater (feet)	Sample ID #/ Depths	Target Analytes/ EPA Method
SB-8	Western portion of the Subject Property	12 (groundwater encountered)	7	S - SB-8 (4.5'-5') S - SB-6 (5'-7') GW	VOCs/8260 SVOCs/ 8270 PP Metals/6010 PCBs/8082
SB-9	Western portion of the Subject Property	4 (equipment refusal)	Not encountered	S - SB-9 (2'-4')	VOCs/8260 SVOCs/ 8270 PP Metals/6010 PCBs/8082
SB-10	North-central portion of the Subject Property building	2.5 (equipment refusal; attempts at 2 locations)	Not encountered	S - SB-9 (1'-2.5') SV – SV-1	VOCs/8260 SVOCs/ 8270 PP Metals/6010 PCBs/8082 T0-15
SB-11	Southwest portion of the Subject Property building	3 (equipment refusal; attempts at 3 locations)	Not encountered	S - SB-10 (1'-3') SV – SV-2	VOCs/8260 SVOCs/ 8270 PP Metals/6010 PCBs/8082 T0-15
SB-12	South Central portion of the Subject Property building	3.5 (equipment refusal; attempts at 2 locations)	Not encountered	S - SB-12 (1.5'-3.5') SV – SV-3	VOCs/8260 SVOCs/ 8270 PP Metals/6010 PCBs/8082 T0-15
SB-13	Southeast portion of the Subject Property building	4 (equipment refusal; attempts at 2 locations)	Not encountered	S - SB-13 (2'-4') SV – SV-4	VOCs/8260 SVOCs/ 8270 PP Metals/6010 PCBs/8082 T0-15
Notes: VOCs -Volatile organic compounds (VOCs) via EPA Method 8260 SVOCs –Semi-volatile organic compounds (SVOCs) via EPA Method 8270. Priority Pollutant 13 (PP13) Metals. PCBs- Polychlorinated biphenyls B – Boring S – Soil Sample GW- Groundwater Sample SV – Soil Vapor Sample (#) – Depth below grade sample collected.					

Boring locations and sampling locations are illustrated on Figure 3, Sample Location Map.

3.2.3 Field Screening

The vapor headspace of each soil sample was field-screened using a photoionization detector (PID). The PID provides a reading of total ionizable VOCs. The PID was calibrated with an isobutylene standard, to measure total VOCs as isobutylene equivalents. The PID has a practical sensitivity of approximately one part per million by volume (ppmV). PID readings should not be considered as exact measurements, but as relative readings of VOCs between locations. The soil samples were placed in a ziplock bag approximately three-quarters full with the soil to be analyzed, which was sealed for approximately 10 minutes in a warm (>60° F) location for equilibration. The headspace analysis was conducted by inserting the probe of the PID through an opening in the zip-lock bag and into the space above the soil sample.

With the exception of fill material, no visual or olfactory evidence of contamination with the exception of elevated PID readings and a slight petroleum odor in soil boring SB-3. PID readings ranged from background levels up to 25 parts per million (ppm). The PID results are noted in the Boring Logs provided in Appendix B.

3.2.4 Soil Sampling and Analysis

Selected “grab” soil samples (of approximate 24”) were collected in laboratory-provided sample containers. Each sample was labeled/logged onto a chain-of-custody form, and placed in a cooler with ice for preservation in accordance with current Federal EPA SW-846 (3rd ed.). The samples were submitted to an independent qualified laboratory SGS Accutest for analyses. The samples were analyzed for the target analytes noted in Table 3.2.2.

In order to ensure that no cross-contamination between samples occurred, all non-dedicated sampling equipment was decontaminated after the collection of each sample. Sampling equipment was scrubbed with a brush to remove loose material and then washed thoroughly with a laboratory grade detergent and water to remove all particulate matter and surface film. After washing, each piece and brush was rinsed with clean distilled water. Dedicated sampling equipment such as sampling liners and latex gloves were properly disposed of after the handling of each sample was complete. Samples were then collected using clean disposable gloves and laboratory-provided glassware appropriate for the specified analysis.

3.2.5 Groundwater Sampling and Analysis

Three grab groundwater samples were collected from temporary small-diameter PVC well screen and riser, installed in both soil borings, using a peristaltic pump and disposable polyethylene tubing.

The groundwater samples were collected in clean laboratory-provided containers. Samples collected for VOC analysis were preserved with hydrochloric acid to a pH less than 2. Samples collected for dissolved metals analysis were filtered by the laboratory within 24 hours of sample collection using a 0.45 micron filter and then preserved with nitric acid. Each sample was labeled/logged onto a chain-of-custody form, and placed in a cooler with ice for preservation in accordance with current Federal EPA SW-846 (3rd ed.). After collection, the samples were submitted to an independent qualified laboratory (SGS Accutest) for analyses. The samples were analyzed for the target analytes noted in Table 3.2.2.

3.2.6 Soil Vapor Sampling and Analysis

Prior to the advancement of the interior borings, a temporary soil vapor well was constructed in the locations of borings SB-10, SB-11, SB-12 and SB-13 (designated SV-1, SV-2, SV-3 and SV-4 (respectively)). A rotary hammer drill was utilized to core a 5/8” hole through the 8 to 12-inch thick concrete building slab in each sampling location. A brass vapor sampling point was manually installed in the cored holes. The brass pins were installed in the slab with a silicon gasket to create an air tight seal between the vapor points and concrete slab.

Prior to sample collection, the soil vapor sampling points were purged of a minimum of three volumes to remove existing ambient air from sampling tube and to ensure that a representative sample was collected from the sub slab vapor.

Each soil vapor sample was collected in a 1-liter summa canister provided by the laboratory. The samples were labeled/logged onto a chain-of-custody form and submitted to an independent qualified laboratory (Accutest Laboratories) for analyses of VOCs by EPA Method TO-15. The sampling start time, sampling end time, initial pressure, and final pressure readings for the Summa canisters were recorded on forms provided by the laboratory.

3.2.7 Abandonment of Borings

Upon completion of the soil sampling activities, each soil boring was filled with the soil cuttings generated during the sampling activities. The remaining void in each borehole was filled with granular bentonite. The top two to four inches were backfilled with asphalt or concrete and compacted.

4.0 PRESENTATION OF EVALUATION AND RESULTS

4.1 SOIL ANALYSIS RESULTS

The samples were analyzed for the target analytes noted in Table 3.2.2. Table 4.1, presented in Appendix C, summarizes only the contaminants identified above the laboratory method detection limits.

As summarized in Table 4.1, the laboratory analytical results revealed the following:

- Concentrations of VOCs were detected above the laboratory method detection limits (MDL) in the samples collected. The detected concentrations of VOCs were well below the New York State Department of Environmental Conservation (NYSDEC) Unrestricted Use Soil Cleanup Objectives (SCOs) with the exception of acetone detected in soil boring SB-3. It is noted that the presence of acetone is commonly a laboratory artifact and may not be site related.
- Concentrations of SVOCs were detected above the laboratory MDL in the samples collected. The detected concentrations of several SVOCs (Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene) and 2-Methylnaphthalene were above the NYSDEC Unrestricted Use and Residential Use SCOs.
- Concentrations of Priority Pollutant (PP) metals detected above the laboratory MDL in the samples collected. The detected concentrations of PP metals (arsenic, copper, lead, mercury, nickel and zinc) were above the NYSDEC Unrestricted use SCOs. With the exception of zinc, each of the metals were also detected at concentrations greater than Residential use SCOs in some of the samples.
- PCBs were not detected above the laboratory MDL in the samples collected with the exception of samples collected from soil borings SB-6, SB-7, SB-8, SB-10, SB-11, SB-12 and SB-13. With the exception of the sample collected from SB-9, the detected concentrations exceeded the NYSDEC Unrestricted use SCOs; however the concentrations detected were all less than the Residential SCOs.

Laboratory soil analytical results and complete laboratory data sheets and chain-of-custody documentation are presented in Appendix C.

4.2 GROUNDWATER ANALYSIS RESULTS

Table 4.2, presented in Appendix C, summarizes only the contaminants identified above the laboratory method detection limits.

The laboratory analytical results revealed the following:

- Concentrations of VOCs were detected above the laboratory method detection limits (MDL) in the samples collected. The concentrations of VOCs detected in the groundwater samples collected from each of the temporary wells did not exceed the NYSDEC TOGS Class GA groundwater standards with the exception of several VOCs (benzene, ethylbenzene, Isopropylbenzene and total xylenes) in the groundwater sample collected from SB-3.
- Concentrations of SVOCs were detected above the laboratory MDL in the samples collected. The concentrations of SVOCs detected in the groundwater samples collected from each of the temporary wells did not exceed the NYSDEC TOGS Class GA groundwater standards with the exception of one SVOC (Benzo(a)pyrene), which was detected in all of the groundwater samples collected

- Concentrations of Priority Pollutant (PP) metals were not detected above the laboratory MDL in the samples collected.

Laboratory groundwater analytical results and complete laboratory data sheets and chain-of-custody documentation are presented in Appendix C.

4.3 SOIL VAPOR ANALYSIS RESULTS

Table 4.3, presented in Appendix B, summarizes only the contaminants identified above the laboratory method detection limits.

Concentrations of VOCs were detected above the laboratory method detection limits (MDL) in the samples collected. For comparison purposes the concentrations of VOCs detected were compared to the US EPA Vapor Intrusion Screening Levels (VISL) for Commercial Settings per the EPA OSWER VISL Calculator Version 3.4, November 2015 and EPA OSWER Publication 9200.2-154, Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air (November 2015). Commercial screening levels were selected based on the existing commercial use of the Subject Property.

- The detected concentrations of VOCs were below the USEPA commercial screening levels with the exception of ethylbenzene detected in SV-3 and SV-4, and tetrachloroethylene (PCE) detected in each of the soil vapor samples.

EBI notes that soil vapor sample results are a tool used as a screening method to determine if impact to areas not identified by the soil sampling may have occurred. The results of the screening are used to help determine whether additional investigation may be warranted at the site.

Laboratory soil vapor analytical results and complete laboratory data sheets and chain-of-custody documentation are presented in Appendix C.

5.0 FINDINGS & CONCLUSIONS

EBI has performed a Phase II ESA at the property at the 159-161 Alexander Street, Yonkers, New York in general conformance with the scope and limitations of ASTM E1903-11 and for the following objectives:

The primary objective of this Phase II ESA is to evaluate potential impact to the Subject Property from the recognized environmental conditions (RECs) identified in the Phase I ESA prepared by Langan Engineering (February 13, 2017) for the purpose of providing sufficient information regarding the nature and extent of contamination to assist in making informed business decisions about the property; and where applicable, providing the level of knowledge necessary to satisfy the innocent purchaser defense under CERCLA. The investigation focused on the entire Subject Property including the areas of suspected former UST location and the former production area where solvents were reportedly used.

Validation of the Conceptual Model

It is EBI's opinion that the findings and results of this Phase II ESA investigation are consistent with and support the assumptions of the Conceptual Model presented in Section 3.1.1. Sufficient investigation has been demonstrated to support sound conclusions regarding the presence of the target analytes.

Findings

The results of EBI's Phase II ESA revealed:

- On March 22, 2017, 13 soil borings were installed at the Subject Property to assess the potential impact from historical industrial and manufacturing uses and the reported former UST system. Up to two soil samples (depending on recovery and/or groundwater presence) were collected from each of the borings installed at the Subject Property. The selected samples were submitted under chain-of-custody documentation to a New York State certified independent laboratory for analysis of VOCs via EPA Method 8260, semivolatile organic compounds (SVOCs) via EPA Method 8270, and Priority Pollutant 13 (PPI3) Metals. In addition, one soil sample from each boring was collected and analyzed for polychlorinated biphenyls (PCBs) via EPA Method 8082A.
- The laboratory analytical results for soil samples revealed the following:
 - Concentrations of VOCs were detected above the laboratory method detection limits (MDL) in the samples collected. The detected concentrations of VOCs were well below the New York State Department of Environmental Conservation (NYSDEC) Unrestricted Use Soil Cleanup Objectives (SCOs) with the exception of acetone detected in soil boring SB-3. It is noted that the presence of acetone is commonly a laboratory artifact and may not be site related.
 - Concentrations of SVOCs were detected above the laboratory MDL in the samples collected. The detected concentrations of several SVOCs (Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene) and 2-Methylnaphthalene were above the NYSDEC Unrestricted Use SCOs and Residential Use SCOs.
 - Concentrations of Priority Pollutant (PP) metals detected above the laboratory MDL in the samples collected. The detected concentrations of PP metals (arsenic, copper, lead, mercury, nickel and zinc) were above the NYSDEC Unrestricted use SCOs. With the exception of zinc, each of the metals were also detected at concentrations greater than Residential use SCOs in some of the samples.

- PCBs were not detected above the laboratory MDL in the samples collected with the exception of samples collected from soil borings SB-6, SB-7, SB-8, SB-10, SB-11, SB-12 and SB-13. With the exception of the sample collected from SB-9, the detected concentrations exceeded the NYSDEC Unrestricted Use SCOs, but were less than the Residential Use SCOs.
- Groundwater samples were collected from temporary small-diameter PVC monitoring wells inserted into soil borings SB-2, SB-3, SB-4, SB-6, SB-7 and SB-8 using a peristaltic pump and disposable polyethylene tubing. The selected samples were submitted under chain-of-custody documentation to a New York state-certified independent laboratory for analysis of VOCs by EPA Method 8260, SVOCs by EPA Method 8270 and Priority Pollutant 13 (PPI3) Metals. The laboratory analytical results for groundwater samples revealed the following:
 - Concentrations of VOCs were detected above the laboratory method detection limits (MDL) in the samples collected. The concentrations of VOCs detected in the groundwater samples collected from each of the temporary wells did not exceed the NYSDEC TOGS Class GA groundwater standards with the exception of several VOCs (benzene, ethylbenzene, Isopropylbenzene and total xylenes) in the groundwater sample collected from SB-3.
 - Concentrations of SVOCs were detected above the laboratory MDL in the samples collected. The concentrations of SVOCs detected in the groundwater samples collected from each of the temporary wells did not exceed the NYSDEC TOGS Class GA groundwater standards with the exception of one SVOC (Benzo(a)pyrene), which was detected in all of the groundwater samples collected
 - Concentrations of Priority Pollutant (PP) metals were not detected above the laboratory MDL in the samples collected.
- Four sub-slab soil vapor samples were collected from the area beneath the existing buildings. These samples were submitted under chain-of-custody documentation to a New York state-certified laboratory for analysis of VOCs via EPA Method TO-15. The laboratory analytical results for soil vapor samples revealed the following:
 - The detected concentrations of VOCs were below the USEPA commercial screening levels with the exception of ethylbenzene detected in SV-3 and SV-4, and Tetrachloroethylene detected in each of the soil vapor samples.

Conclusions

- Based on the above information, the soils at the Subject Property has been impacted with SVOCs, metals and PCBs. Additionally, the groundwater on the southeast side of the Subject Property has been impacted with low levels of petroleum related VOCs. Furthermore, elevated concentrations of VOCs, in particular PCE, were detected in sub slab soil vapor samples within the building. The source of the PCE in soil has not been identified.

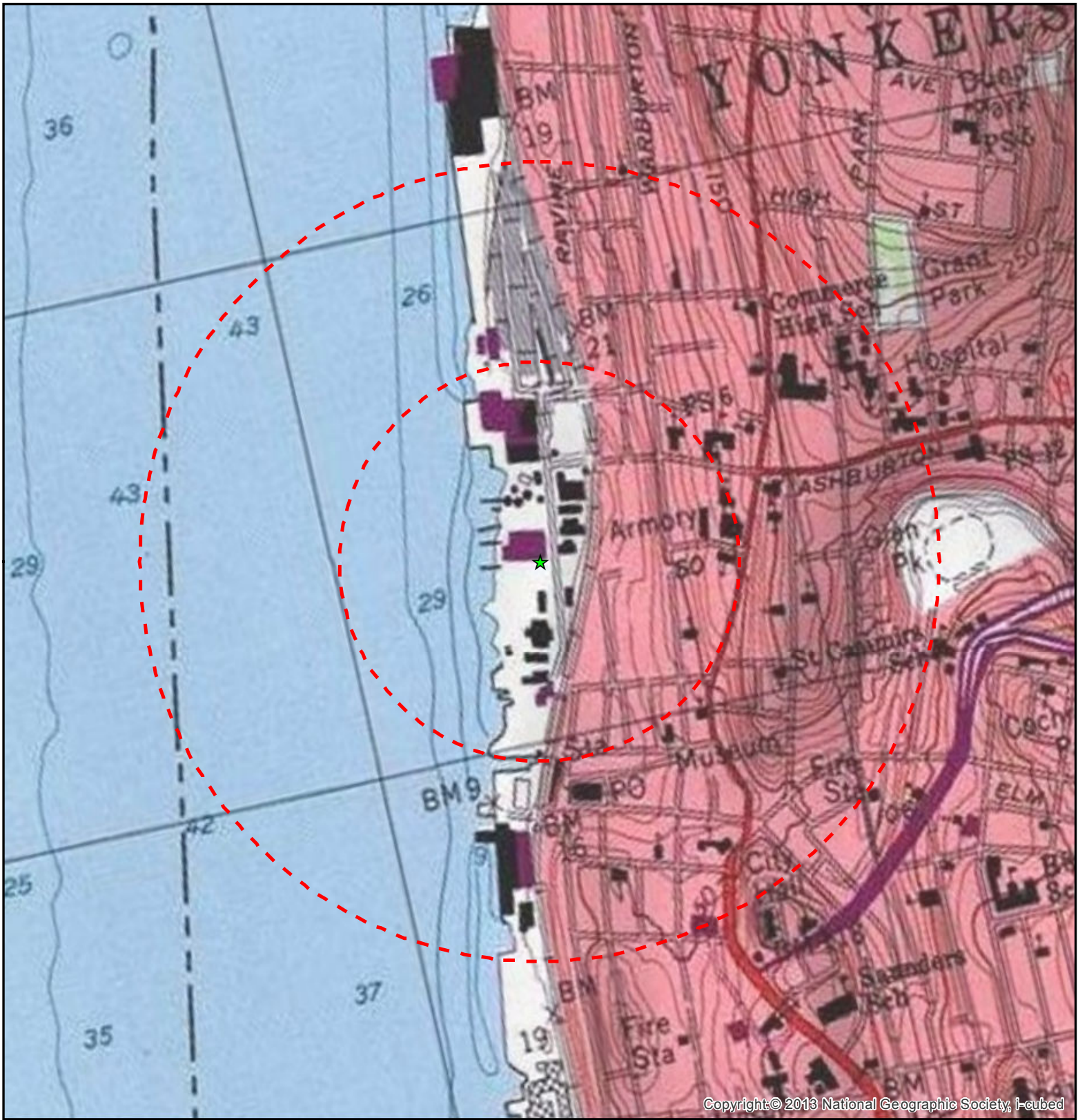
6.0 RECOMMENDATIONS

Based on the findings and conclusions of this Phase II ESA, EBI recommends the following:

- Urban fill soils containing SVOCs, metals and low concentrations of PCBs are present across the property. Should future development occur, soils should be managed and disposed of properly, and appropriate controls should be put in place to mitigate potential future exposures.
- Additional investigation should be conducted to further evaluate the source of chlorinated VOCs identified in soil vapor. It is recommended that additional investigations include soil and groundwater testing from within the building footprint, and indoor air testing to evaluate whether a vapor intrusion condition is currently present.

APPENDIX A
FIGURES

DRAFT



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Legend

- ★ Selected Project Site
- ⊖ Site Radius at 1/4 & 1/2 mile

Source: Selected data from USGS and EBI.



Date: 4/3/2017

USGS 24K Quad: Yonkers, NJ 1986

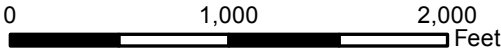


Figure 2 - Topographic Map

**NULL EXTELL HUDSON WATERFRONT DEVELOPMENT
159-161 ALEXANDER STREET
YONKERS, NY**



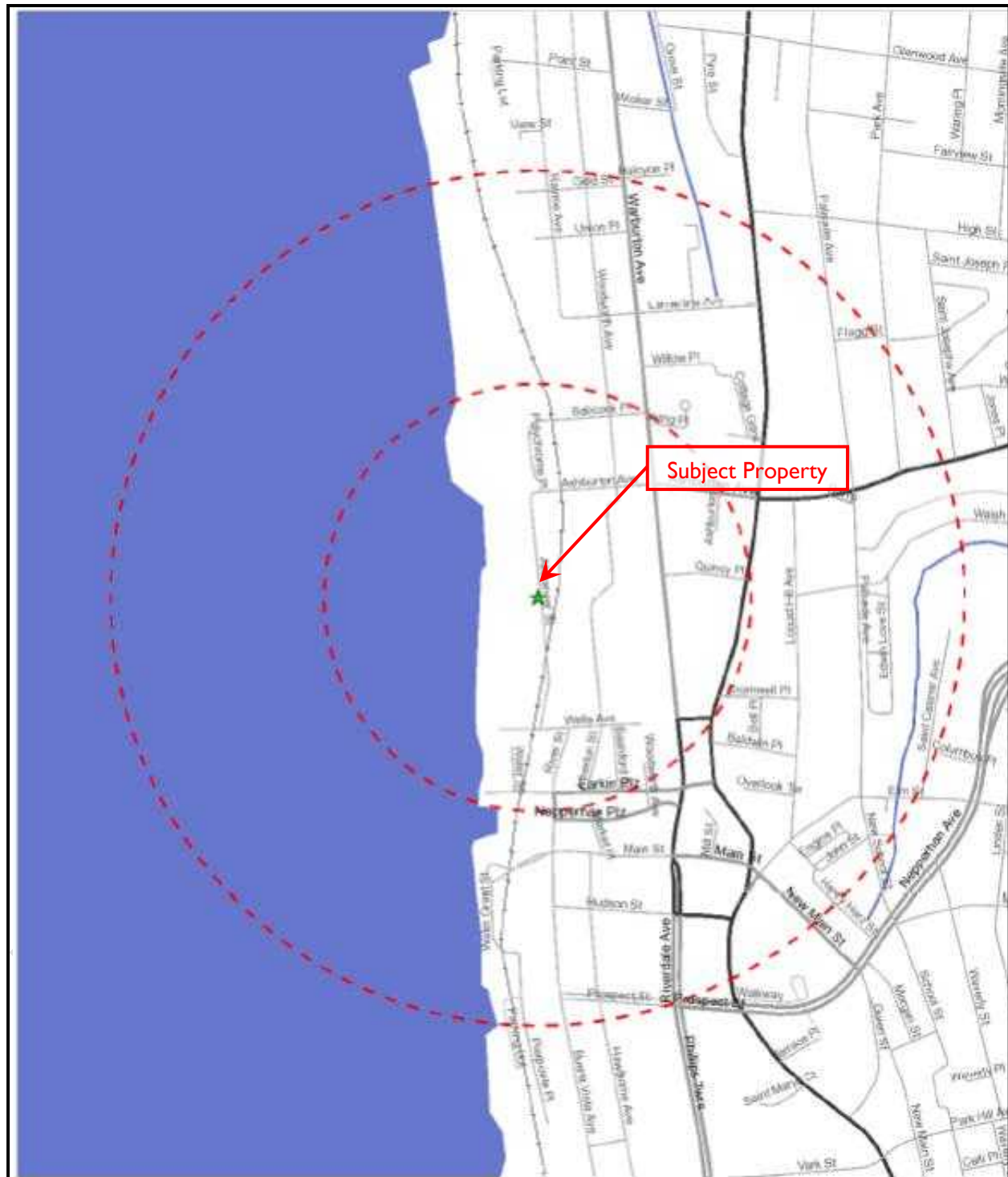


FIGURE I – SITE LOCATION MAP



Not to scale

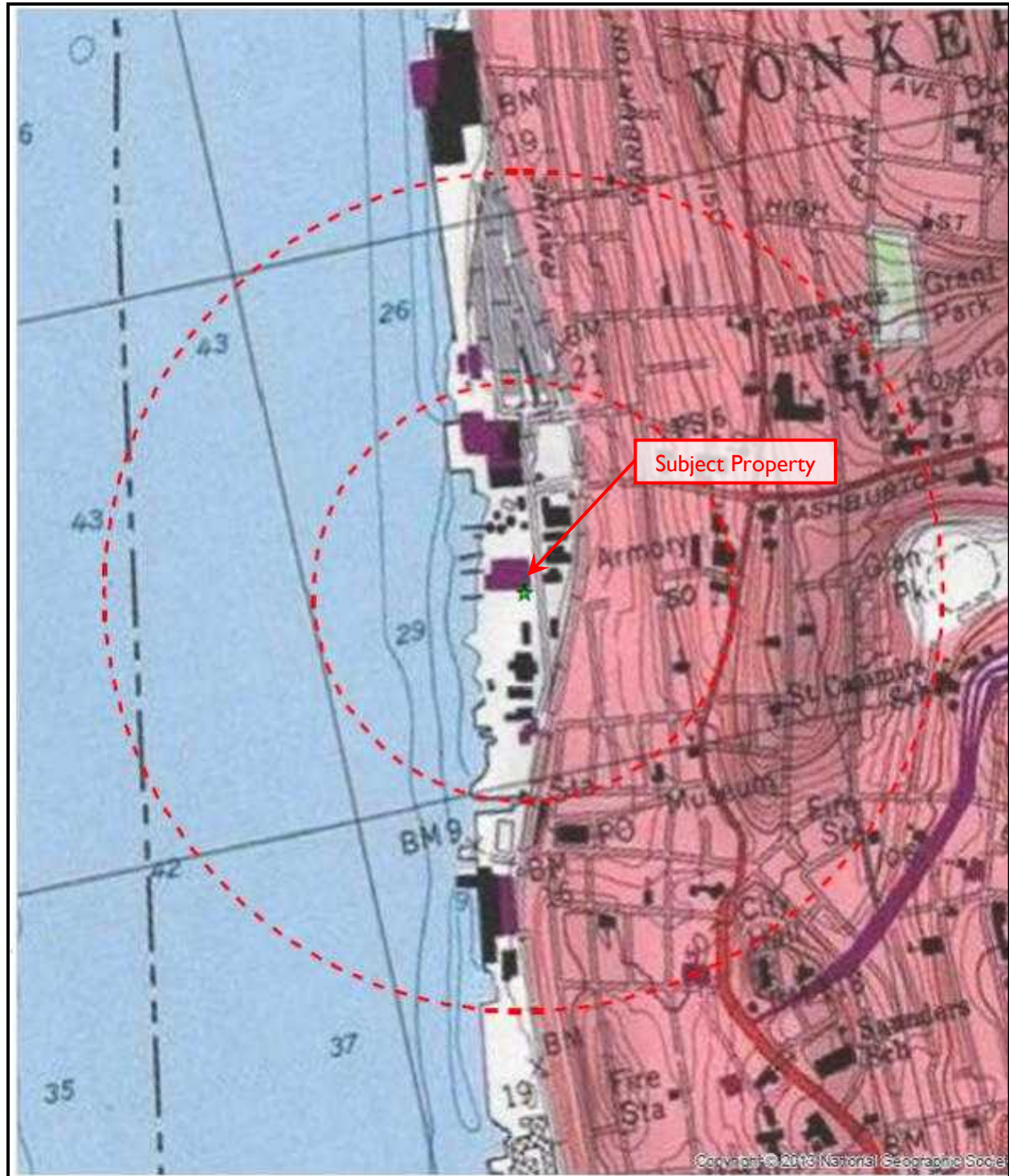


FIGURE 2 – TOPOGRAPHIC MAP



Not to scale

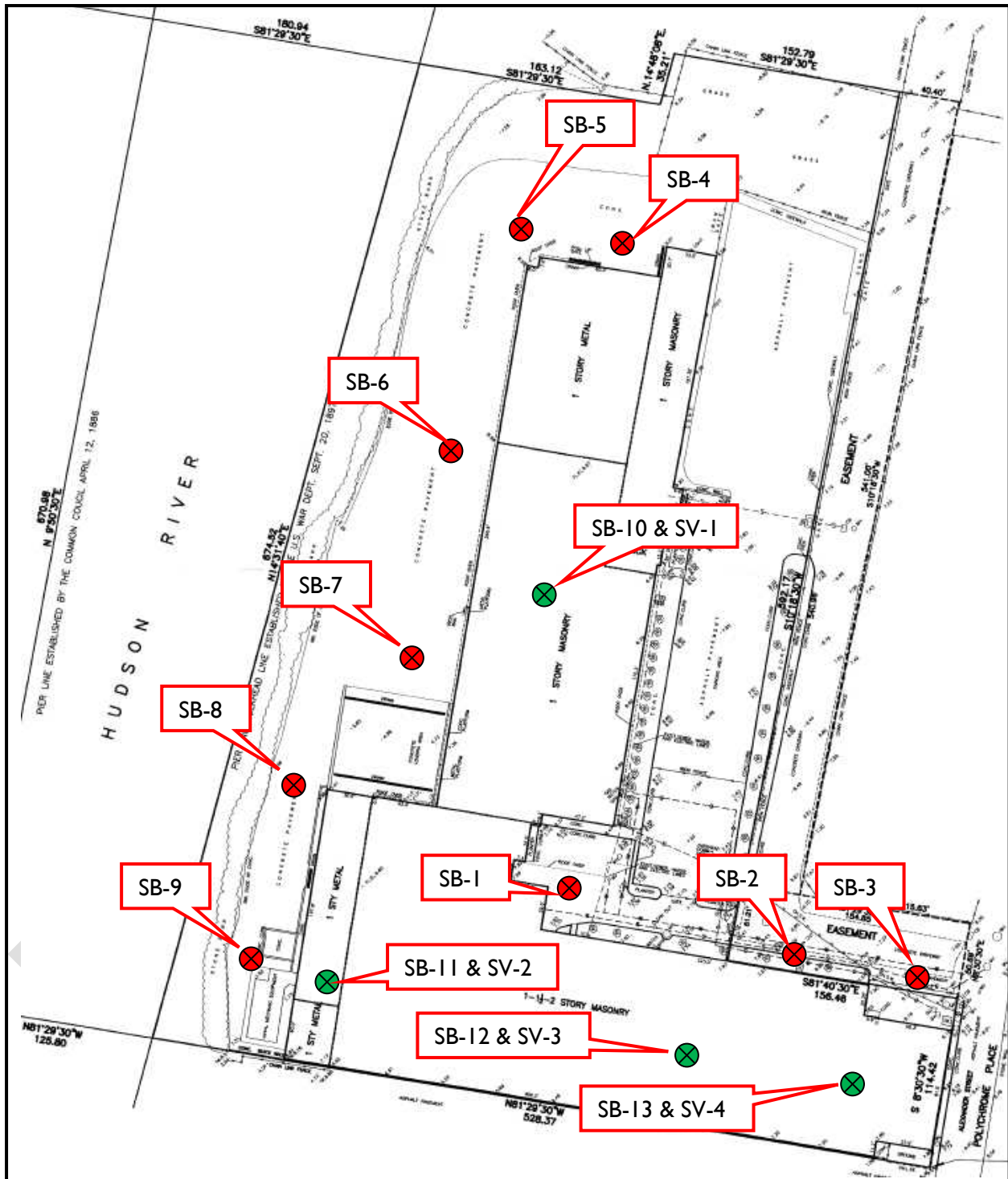


FIGURE 3 – SAMPLE LOCATION MAP

- ✖ BORING LOCATION
- ✖ BORING WITH SOIL VAPOR SAMPLE



Not to scale

**APPENDIX B
BORING LOGS**

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SOIL BORING LOG - FIELD READINGS				
EBI Project No. 1217000088				
Project Name:				
BORING METHOD: Geoprobe			DATE: March 22, 2017	
Sample #	Depth (Ft)	Moisture (Saturated - Moist - Dry)	PID Reading	Soil Description/Notes
SB-1	0-4	L	0.0	Concrete (0'-1') Brown medium sands and fill material (1'-4')
SB-1	4-7	M	0.0	Brown medium sands and fill material
Bottom of Boring at 7' (refusal), groundwater not encountered				
SB-2	0-4	L	0.0	Brown medium sands and fill material
SB-2	4-8	M	5.0	Brown medium sands and fill material
SB-2	8-12	S	0.0	Brown medium sands and fill material
Bottom of Boring at 12' (as per SOW), groundwater encountered				
SB-3	0-4	L	0.0	Brown medium sands and fill material
SB-3	4-8	M	10-15	Brown medium sands and fill material
SB-3	8-12	S	0.0	Brown medium sands and fill material
Bottom of Boring at 12' (as per SOW), groundwater encountered				
SB-4	0-4	L	0.0	Concrete (0'-1') Brown medium sands and fill material (1'-4')
SB-4	4-8	M	0.0	Brown medium sands and fill material
SB-4	8-12	S	0.0	Brown medium sands and fill material
Bottom of Boring at 12' (as per SOW), groundwater encountered at 6.5'				
SB-5	0-4	L	0.0	Concrete (0'-1') Brown medium sands and fill material (1'-4')
SB-5	4-4.5	M	0.1	Brown medium sands and fill material
Bottom of Boring at 4.5' (refusal), groundwater not encountered				
SB-6	0-4	L	0.0	Concrete (0'-1') Brown medium sands and fill material (1'-4')
SB-6	4-8	M	0.0	Brown medium sands and fill material
SB-6	8-12	S	0.0	Brown medium sands and fill material
Bottom of Boring at 12' (as per SOW), groundwater encountered at 7'				
SB-7	0-4	L	0.0	Concrete (0'-1') Brown medium sands and fill material (1'-4')
SB-7	4-8	M	0.0	Brown medium sands and fill material
SB-7	8-12	S	0.0	Brown medium sands and fill material
Bottom of Boring at 12' (as per SOW), groundwater encountered at 7'				

SOIL BORING LOG - FIELD READINGS				
EBI Project No. 1217000088				
Project Name:				
BORING METHOD: Geoprobe			DATE: March 22, 2017	
Sample #	Depth (Ft)	Moisture (Saturated - Moist - Dry)	PID Reading	Soil Description/Notes
SB-8	0-4	L	0.0	Concrete (0'-1') Brown medium sands and fill material (1'-4')
SB-8	4-8	M	0.0	Brown medium sands and fill material
SB-8	8-12	S	0.0	Brown medium sands and fill material
Bottom of Boring at 12' (as per SOW), groundwater encountered				
SB-9	0-4	L	0.0	Concrete (0'-1') Brown medium sands and fill material (1'-4')
Bottom of Boring at 4' (refusal), groundwater not encountered				
SB-10	0-2.5	L	15-20	Concrete (0'-1') Brown medium sands and fill material (1'-2.5')
Bottom of Boring at 2.5' (refusal), groundwater not encountered				
SB-11	0-3	L	5-10	Concrete (0'-1') Brown medium sands and fill material (1'-3')
Bottom of Boring at 3' (refusal), groundwater not encountered				
SB-12	0-3.5	L	5-10	Concrete (0'-1') Brown medium sands and fill material (1'-3')
Bottom of Boring at 3.5' (refusal), groundwater not encountered				
SB-9	0-4	L	5-10	Concrete (0'-1') Brown medium sands and fill material (1'-4')
Bottom of Boring at 4' (refusal), groundwater not encountered				

APPENDIX C
LABORATORY ANALYTICAL RESULTS

DRAFT

Table 5.2
Groundwater Sample Analytical Summary

Job Number:	JC39408							
Account:	EBI Consulting							
Project:	1217000088, 159-161 Alexander Street, Yonkers, NY							
Project Number:								
			Legend:				Exceed	Hit
Client Sample ID:	NY TOGS Class GA GW Standards (NYSDEC 6/2004) ¹		SB-2	SB-3	SB-4	SB-6	SB-7	SB-8
Lab Sample ID:		JC39408-13	JC39408-14	JC39408-15	JC39408-16	JC39408-17	JC39408-18	
Date Sampled:		3/21/2017	3/21/2017	3/21/2017	3/21/2017	3/21/2017	3/21/2017	
Matrix:		Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	Ground Water	
GC/MS Volatiles (SW846 8260C)								
Benzene	ug/l	1	ND (0.14)	1.5	ND (0.14)	0.37 J	ND (0.14)	ND (0.14)
Ethylbenzene	ug/l	5	ND (0.20)	11.8	ND (0.20)	ND (0.20)	ND (0.20)	ND (0.20)
Isopropylbenzene	ug/l	5	ND (0.16)	14.6	ND (0.16)	ND (0.16)	ND (0.16)	ND (0.16)
Methylcyclohexane	ug/l	NRGL	ND (0.78)	2.2 J	ND (0.78)	ND (0.78)	ND (0.78)	ND (0.78)
Toluene	ug/l	5	ND (0.23)	2.9	ND (0.23)	ND (0.23)	ND (0.23)	ND (0.23)
m,p-Xylene	ug/l	NRGL	ND (0.42)	2.9	ND (0.42)	ND (0.42)	ND (0.42)	ND (0.42)
o-Xylene	ug/l	5	ND (0.21)	4.6	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
Xylene (total)	ug/l	5	ND (0.21)	7.5	ND (0.21)	ND (0.21)	ND (0.21)	ND (0.21)
GC/MS Semi-volatiles (SW846 8270D)								
Acenaphthene	ug/l	NRGL	ND (0.19)	47	ND (0.21)	ND (0.21)	ND (0.20)	ND (0.20)
Acenaphthylene	ug/l	NRGL	ND (0.14)	13.4	0.57 J	ND (0.15)	ND (0.14)	ND (0.14)
Anthracene	ug/l	NRGL	ND (0.21)	27.3	0.73 J	0.65 J	ND (0.22)	ND (0.22)
Benzo(a)anthracene	ug/l	NRGL	1.1	22.6	1.5	1.6	0.98 J	0.70 J
Benzo(a)pyrene	ug/l	ND	1.1	23.8	1.7	1.9	1.3	0.83 J
Benzo(b)fluoranthene	ug/l	NRGL	1.2	19.9	2.2	2.3	1.4	0.84 J
Benzo(g,h,i)perylene	ug/l	NRGL	0.74 J	13.4	1.2	1.7	0.89 J	1.7
Benzo(k)fluoranthene	ug/l	NRGL	0.49 J	7.4	0.88 J	0.81 J	0.55 J	ND (0.22)
1,1'-Biphenyl	ug/l	5	ND (0.21)	3	ND (0.24)	ND (0.23)	ND (0.23)	ND (0.22)
Carbazole	ug/l	NRGL	ND (0.23)	0.62 J	ND (0.25)	ND (0.25)	ND (0.24)	ND (0.24)
Chrysene	ug/l	NRGL	0.99 J	22.8	1.6	1.7	1.0 J	0.76 J
Dibenzo(a,h)anthracene	ug/l	NRGL	ND (0.33)	4.7	ND (0.37)	ND (0.36)	ND (0.35)	ND (0.35)
Dibenzofuran	ug/l	NRGL	ND (0.22)	2.0 J	ND (0.24)	ND (0.24)	ND (0.23)	ND (0.23)
Fluoranthene	ug/l	NRGL	1.7	31.7	2.9	2.6	1.1	1.2
Fluorene	ug/l	NRGL	ND (0.17)	35	ND (0.19)	ND (0.19)	ND (0.18)	ND (0.18)
Indeno(1,2,3-cd)pyrene	ug/l	NRGL	0.77 J	12.7	1.4	1.4	0.93 J	0.78 J
2-Methylnaphthalene	ug/l	NRGL	ND (0.21)	9.6	ND (0.23)	ND (0.23)	ND (0.22)	ND (0.22)
Naphthalene	ug/l	NRGL	ND (0.23)	86.8	0.76 J	ND (0.25)	ND (0.25)	ND (0.24)
Phenanthrene	ug/l	NRGL	1	71.8	2.5	1.5	0.50 J	0.86 J
Pyrene	ug/l	NRGL	1.9	49.4	2.8	2.7	1.5	1.3

NRGL- No regulatory guidance limit

Table 5.3
Soil Vapor Summary Table

Job Number:	JC39442					
Account:	EBI Consulting					
Project:	1217000088, 159-161 Alexander Street, Yonkers, NY					
Project Number:						
Legend:						
						Hit
						Exceed
Client Sample ID:		SV-1	SV-2	SV-3	SV-4	EPA VISL - Commercial Soil Vapor Screening Values
Lab Sample ID:		JC39442-1	JC39442-2	JC39442-3	JC39442-4	
Date Sampled:		3/21/2017	3/21/2017	3/21/2017	3/21/2017	
Matrix:		Soil Vapor Comp.	Soil Vapor Comp.	Soil Vapor Comp.	Soil Vapor Comp.	
GC/MS Volatiles (TO-15) - ug/m3						
Acetone	ug/m3	48.9	2190	803	67.5	450000
Carbon disulfide	ug/m3	ND (5.6)	11 J	ND (2.6)	ND (2.6)	100000
Ethanol	ug/m3	62.7	1110	4150	123	100000
Ethylbenzene	ug/m3	ND (10)	ND (4.3)	565	381	160
Ethyl Acetate	ug/m3	ND (15)	ND (6.5)	ND (7.2)	9.7 J	59000
4-Ethyltoluene	ug/m3	ND (4.7)	ND (2.0)	48	49.2	NRGL
Isopropyl Alcohol	ug/m3	ND (22)	215	855	40.3	29000
Methyl ethyl ketone	ug/m3	ND (8.3)	77.9	8.8 J	15 J	730000
Methyl Tert Butyl Ether	ug/m3	ND (4.0)	ND (1.7)	102	ND (1.9)	1600
Styrene	ug/m3	ND (3.7)	ND (1.6)	ND (1.7)	101	150000
1,2,4-Trimethylbenzene	ug/m3	ND (4.3)	ND (1.8)	90.9	146	1000
1,3,5-Trimethylbenzene	ug/m3	ND (13)	ND (5.4)	29	41	NRGL
Tertiary Butyl Alcohol	ug/m3	ND (9.1)	133	28	60.9	NRGL
Tetrachloroethylene	ug/m3	6850	144	2930	1840	1600
Toluene	ug/m3	ND (2.7)	ND (1.1)	2750	301	730000
Trichloroethylene	ug/m3	51	ND (2.4)	ND (2.6)	6.4	100
m,p-Xylene	ug/m3	ND (17)	24	2220	2090	15000
o-Xylene	ug/m3	ND (13)	10 J	431	751	15000
Xylenes (total)	ug/m3	ND (13)	34	2650	2850	15000
NRL - No regulatory guidance level						

Technical Report for

EBI Consulting

1217000088, 159-161 Alexander Street, Yonkers, NY

SGS Accutest Job Number: JC39442

Sampling Date: 03/21/17

Report to:

EBI Consulting
21 B Street
Burlington, MA 01803
Bshaw@ebiconsulting.com

ATTN: Bryan Shaw

Total number of pages in report: 66



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Victoria Pushkova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (L-A-B L2248)

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Test results relate only to samples analyzed.

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1

2

3

4

5



Sample Summary

EBI Consulting

Job No: JC39442

1217000088, 159-161 Alexander Street, Yonkers, NY

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JC39442-1	03/21/17	15:37 BS	03/22/17	AIR	Soil Vapor Comp.	SV-1
JC39442-2	03/21/17	15:50 BS	03/22/17	AIR	Soil Vapor Comp.	SV-2
JC39442-3	03/21/17	18:40 BS	03/22/17	AIR	Soil Vapor Comp.	SV-3
JC39442-4	03/21/17	18:55 BS	03/22/17	AIR	Soil Vapor Comp.	SV-4

Summary of Hits

Job Number: JC39442
Account: EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY
Collected: 03/21/17

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JC39442-1 SV-1

Acetone		20.6	11	2.1	ppbv	TO-15
Ethanol		33.3	29	4.3	ppbv	TO-15
Tetrachloroethylene		1010	2.3	1.3	ppbv	TO-15
Trichloroethylene		9.4	2.3	1.1	ppbv	TO-15
Acetone		48.9	26	5.0	ug/m3	TO-15
Ethanol		62.7	55	8.1	ug/m3	TO-15
Tetrachloroethylene		6850	16	8.8	ug/m3	TO-15
Trichloroethylene		51	12	5.9	ug/m3	TO-15

JC39442-2 SV-2

Acetone		920	4.8	0.87	ppbv	TO-15
Carbon disulfide		3.6 J	4.8	0.75	ppbv	TO-15
Ethanol		587	12	1.8	ppbv	TO-15
Isopropyl Alcohol		87.5	4.8	3.7	ppbv	TO-15
Methyl ethyl ketone		26.4	4.8	1.2	ppbv	TO-15
Tertiary Butyl Alcohol		43.8	4.8	1.3	ppbv	TO-15
Tetrachloroethylene		21.3	0.96	0.55	ppbv	TO-15
m,p-Xylene		5.6	4.8	1.6	ppbv	TO-15
o-Xylene		2.3 J	4.8	1.2	ppbv	TO-15
Xylenes (total)		7.9	4.8	1.2	ppbv	TO-15
Acetone		2190	11	2.1	ug/m3	TO-15
Carbon disulfide		11 J	15	2.3	ug/m3	TO-15
Ethanol		1110	23	3.4	ug/m3	TO-15
Isopropyl Alcohol		215	12	9.1	ug/m3	TO-15
Methyl ethyl ketone		77.9	14	3.5	ug/m3	TO-15
Tertiary Butyl Alcohol		133	15	3.9	ug/m3	TO-15
Tetrachloroethylene		144	6.5	3.7	ug/m3	TO-15
m,p-Xylene		24	21	6.9	ug/m3	TO-15
o-Xylene		10 J	21	5.2	ug/m3	TO-15
Xylenes (total)		34	21	5.2	ug/m3	TO-15

JC39442-3 SV-3

Acetone		338	5.3	0.96	ppbv	TO-15
Ethanol		2200	130	19	ppbv	TO-15
Ethylbenzene		130	5.3	1.1	ppbv	TO-15
4-Ethyltoluene		9.7	5.3	0.44	ppbv	TO-15
Isopropyl Alcohol		348	5.3	4.1	ppbv	TO-15
Methyl ethyl ketone		3.0 J	5.3	1.3	ppbv	TO-15
Methyl Tert Butyl Ether		28.4	5.3	0.52	ppbv	TO-15
1,2,4-Trimethylbenzene		18.5	5.3	0.40	ppbv	TO-15
1,3,5-Trimethylbenzene		5.8	5.3	1.2	ppbv	TO-15

Summary of Hits

Job Number: JC39442
Account: EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY
Collected: 03/21/17

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Tertiary Butyl Alcohol		9.2	5.3	1.4	ppbv	TO-15
Tetrachloroethylene		432	1.1	0.61	ppbv	TO-15
Toluene		731	52	3.2	ppbv	TO-15
m,p-Xylene		511	5.3	1.8	ppbv	TO-15
o-Xylene		99.2	5.3	1.4	ppbv	TO-15
Xylenes (total)		610	5.3	1.4	ppbv	TO-15
Acetone		803	13	2.3	ug/m3	TO-15
Ethanol		4150	240	36	ug/m3	TO-15
Ethylbenzene		565	23	4.8	ug/m3	TO-15
4-Ethyltoluene		48	26	2.2	ug/m3	TO-15
Isopropyl Alcohol		855	13	10	ug/m3	TO-15
Methyl ethyl ketone		8.8 J	16	3.8	ug/m3	TO-15
Methyl Tert Butyl Ether		102	19	1.9	ug/m3	TO-15
1,2,4-Trimethylbenzene		90.9	26	2.0	ug/m3	TO-15
1,3,5-Trimethylbenzene		29	26	5.9	ug/m3	TO-15
Tertiary Butyl Alcohol		28	16	4.2	ug/m3	TO-15
Tetrachloroethylene		2930	7.5	4.1	ug/m3	TO-15
Toluene		2750	200	12	ug/m3	TO-15
m,p-Xylene		2220	23	7.8	ug/m3	TO-15
o-Xylene		431	23	6.1	ug/m3	TO-15
Xylenes (total)		2650	23	6.1	ug/m3	TO-15

JC39442-4 SV-4

Acetone		28.4	5.4	0.98	ppbv	TO-15
Ethanol		65.2	14	2.0	ppbv	TO-15
Ethylbenzene		87.8	5.4	1.1	ppbv	TO-15
Ethyl Acetate		2.7 J	5.4	2.0	ppbv	TO-15
4-Ethyltoluene		10.0	5.4	0.45	ppbv	TO-15
Isopropyl Alcohol		16.4	5.4	4.2	ppbv	TO-15
Methyl ethyl ketone		5.2 J	5.4	1.3	ppbv	TO-15
Styrene		23.7	5.4	0.42	ppbv	TO-15
1,2,4-Trimethylbenzene		29.7	5.4	0.41	ppbv	TO-15
1,3,5-Trimethylbenzene		8.4	5.4	1.2	ppbv	TO-15
Tertiary Butyl Alcohol		20.1	5.4	1.4	ppbv	TO-15
Tetrachloroethylene		272	1.1	0.62	ppbv	TO-15
Toluene		79.8	5.4	0.33	ppbv	TO-15
Trichloroethylene		1.2	1.1	0.50	ppbv	TO-15
m,p-Xylene		482	5.4	1.8	ppbv	TO-15
o-Xylene		173	5.4	1.4	ppbv	TO-15
Xylenes (total)		655	5.4	1.4	ppbv	TO-15
Acetone		67.5	13	2.3	ug/m3	TO-15
Ethanol		123	26	3.8	ug/m3	TO-15
Ethylbenzene		381	23	4.8	ug/m3	TO-15
Ethyl Acetate		9.7 J	19	7.2	ug/m3	TO-15

Summary of Hits

Job Number: JC39442
Account: EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY
Collected: 03/21/17

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
		49.2	27	2.2	ug/m3	TO-15
		40.3	13	10	ug/m3	TO-15
		15 J	16	3.8	ug/m3	TO-15
		101	23	1.8	ug/m3	TO-15
		146	27	2.0	ug/m3	TO-15
		41	27	5.9	ug/m3	TO-15
		60.9	16	4.2	ug/m3	TO-15
		1840	7.5	4.2	ug/m3	TO-15
		301	20	1.2	ug/m3	TO-15
		6.4	5.9	2.7	ug/m3	TO-15
		2090	23	7.8	ug/m3	TO-15
		751	23	6.1	ug/m3	TO-15
		2850	23	6.1	ug/m3	TO-15

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: SV-1		
Lab Sample ID: JC39442-1		Date Sampled: 03/21/17
Matrix: AIR - Soil Vapor Comp. Summa ID: A1254		Date Received: 03/22/17
Method: TO-15		Percent Solids: n/a
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	5W23439.D	1.43	03/30/17	LM	n/a	n/a	V5W927

Run #1	Initial Volume
Run #2	10.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	20.6	11	2.1	ppbv		48.9	26	5.0	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	11	1.6	ppbv		ND	24	3.5	ug/m3
71-43-2	78.11	Benzene	ND	11	1.8	ppbv		ND	35	5.8	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	11	2.2	ppbv		ND	74	15	ug/m3
75-25-2	252.8	Bromoform	ND	11	0.90	ppbv		ND	110	9.3	ug/m3
74-83-9	94.94	Bromomethane	ND	11	1.1	ppbv		ND	43	4.3	ug/m3
593-60-2	106.9	Bromoethene	ND	11	1.1	ppbv		ND	48	4.8	ug/m3
100-44-7	126	Benzyl Chloride	ND	11	1.5	ppbv		ND	57	7.7	ug/m3
75-15-0	76.14	Carbon disulfide	ND	11	1.8	ppbv		ND	34	5.6	ug/m3
108-90-7	112.6	Chlorobenzene	ND	11	3.2	ppbv		ND	51	15	ug/m3
75-00-3	64.52	Chloroethane	ND	11	2.0	ppbv		ND	29	5.3	ug/m3
67-66-3	119.4	Chloroform	ND	11	0.94	ppbv		ND	54	4.6	ug/m3
74-87-3	50.49	Chloromethane	ND	11	3.0	ppbv		ND	23	6.2	ug/m3
107-05-1	76.53	3-Chloropropene	ND	11	1.5	ppbv		ND	34	4.7	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	11	0.97	ppbv		ND	57	5.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	11	1.8	ppbv		ND	69	11	ug/m3
110-82-7	84.16	Cyclohexane	ND	11	0.93	ppbv		ND	38	3.2	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	11	0.87	ppbv		ND	45	3.5	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	11	1.2	ppbv		ND	44	4.8	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	11	2.4	ppbv		ND	85	18	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	11	1.0	ppbv		ND	45	4.0	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	11	1.3	ppbv		ND	51	6.0	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	11	2.6	ppbv		ND	40	9.4	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	11	1.1	ppbv		ND	54	5.4	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	11	3.0	ppbv		ND	94	26	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	11	1.6	ppbv		ND	44	6.3	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	11	1.2	ppbv		ND	44	4.8	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	11	0.87	ppbv		ND	50	3.9	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	11	1.1	ppbv		ND	66	6.6	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	11	0.92	ppbv		ND	66	5.5	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	11	1.5	ppbv		ND	66	9.0	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	11	1.0	ppbv		ND	50	4.5	ug/m3

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SV-1		Date Sampled: 03/21/17
Lab Sample ID: JC39442-1		Date Received: 03/22/17
Matrix: AIR - Soil Vapor Comp. Summa ID: A1254		Percent Solids: n/a
Method: TO-15		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	33.3	29	4.3	ppbv		62.7	55	8.1	ug/m3
100-41-4	106.2	Ethylbenzene	ND	11	2.4	ppbv		ND	48	10	ug/m3
141-78-6	88	Ethyl Acetate	ND	11	4.3	ppbv		ND	40	15	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	11	0.96	ppbv		ND	54	4.7	ug/m3
76-13-1	187.4	Freon 113	ND	11	1.2	ppbv		ND	84	9.2	ug/m3
76-14-2	170.9	Freon 114	ND	11	1.8	ppbv		ND	77	13	ug/m3
142-82-5	100.2	Heptane	ND	11	1.2	ppbv		ND	45	4.9	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	11	1.2	ppbv		ND	120	13	ug/m3
110-54-3	86.17	Hexane	ND	11	1.3	ppbv		ND	39	4.6	ug/m3
591-78-6	100	2-Hexanone	ND	11	2.6	ppbv		ND	45	11	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	11	8.9	ppbv		ND	27	22	ug/m3
75-09-2	84.94	Methylene chloride	ND	11	1.4	ppbv		ND	38	4.9	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	11	2.8	ppbv		ND	32	8.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	11	3.1	ppbv		ND	45	13	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	11	1.1	ppbv		ND	40	4.0	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	11	2.3	ppbv		ND	45	9.4	ug/m3
115-07-1	42	Propylene	ND	29	1.8	ppbv		ND	50	3.1	ug/m3
100-42-5	104.1	Styrene	ND	11	0.88	ppbv		ND	47	3.7	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	11	1.3	ppbv		ND	60	7.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	11	0.92	ppbv		ND	76	6.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	11	2.2	ppbv		ND	60	12	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	11	3.2	ppbv		ND	82	24	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	11	0.87	ppbv		ND	54	4.3	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	11	2.6	ppbv		ND	54	13	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	11	1.3	ppbv		ND	51	6.1	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	11	3.0	ppbv		ND	33	9.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	1010	2.3	1.3	ppbv		6850	16	8.8	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	11	2.6	ppbv		ND	32	7.7	ug/m3
108-88-3	92.14	Toluene	ND	11	0.71	ppbv		ND	41	2.7	ug/m3
79-01-6	131.4	Trichloroethylene	9.4	2.3	1.1	ppbv		51	12	5.9	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	11	1.3	ppbv		ND	62	7.3	ug/m3
75-01-4	62.5	Vinyl chloride	ND	11	1.2	ppbv		ND	28	3.1	ug/m3
108-05-4	86	Vinyl Acetate	ND	11	3.1	ppbv		ND	39	11	ug/m3
	106.2	m,p-Xylene	ND	11	3.9	ppbv		ND	48	17	ug/m3
95-47-6	106.2	o-Xylene	ND	11	2.9	ppbv		ND	48	13	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	11	2.9	ppbv		ND	48	13	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%		65-128%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SV-2		
Lab Sample ID: JC39442-2		Date Sampled: 03/21/17
Matrix: AIR - Soil Vapor Comp. Summa ID: A1228		Date Received: 03/22/17
Method: TO-15		Percent Solids: n/a
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W23440.D	1.2	03/30/17	LM	n/a	n/a	V5W927
Run #2							

Run #1	Initial Volume
Run #1	20.0 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	920	4.8	0.87	ppbv		2190	11	2.1	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	4.8	0.66	ppbv		ND	11	1.5	ug/m3
71-43-2	78.11	Benzene	ND	4.8	0.75	ppbv		ND	15	2.4	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	4.8	0.93	ppbv		ND	32	6.2	ug/m3
75-25-2	252.8	Bromoform	ND	4.8	0.38	ppbv		ND	50	3.9	ug/m3
74-83-9	94.94	Bromomethane	ND	4.8	0.44	ppbv		ND	19	1.7	ug/m3
593-60-2	106.9	Bromoethene	ND	4.8	0.44	ppbv		ND	21	1.9	ug/m3
100-44-7	126	Benzyl Chloride	ND	4.8	0.64	ppbv		ND	25	3.3	ug/m3
75-15-0	76.14	Carbon disulfide	3.6	4.8	0.75	ppbv	J	11	15	2.3	ug/m3
108-90-7	112.6	Chlorobenzene	ND	4.8	1.3	ppbv		ND	22	6.0	ug/m3
75-00-3	64.52	Chloroethane	ND	4.8	0.85	ppbv		ND	13	2.2	ug/m3
67-66-3	119.4	Chloroform	ND	4.8	0.40	ppbv		ND	23	2.0	ug/m3
74-87-3	50.49	Chloromethane	ND	4.8	1.3	ppbv		ND	9.9	2.7	ug/m3
107-05-1	76.53	3-Chloropropene	ND	4.8	0.64	ppbv		ND	15	2.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	4.8	0.41	ppbv		ND	25	2.1	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	4.8	0.75	ppbv		ND	30	4.7	ug/m3
110-82-7	84.16	Cyclohexane	ND	4.8	0.39	ppbv		ND	17	1.3	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	4.8	0.36	ppbv		ND	19	1.5	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	4.8	0.50	ppbv		ND	19	2.0	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	4.8	1.0	ppbv		ND	37	7.7	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	4.8	0.42	ppbv		ND	19	1.7	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	4.8	0.53	ppbv		ND	22	2.4	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	4.8	1.1	ppbv		ND	17	4.0	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	4.8	0.46	ppbv		ND	24	2.3	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	4.8	1.3	ppbv		ND	41	11	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	4.8	0.67	ppbv		ND	19	2.7	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	4.8	0.51	ppbv		ND	19	2.0	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	4.8	0.36	ppbv		ND	22	1.6	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	4.8	0.47	ppbv		ND	29	2.8	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	4.8	0.38	ppbv		ND	29	2.3	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	4.8	0.65	ppbv		ND	29	3.9	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	4.8	0.44	ppbv		ND	22	2.0	ug/m3

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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3

Client Sample ID: SV-2		Date Sampled: 03/21/17
Lab Sample ID: JC39442-2		Date Received: 03/22/17
Matrix: AIR - Soil Vapor Comp. Summa ID: A1228		Percent Solids: n/a
Method: TO-15		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	587	12	1.8	ppbv		1110	23	3.4	ug/m3
100-41-4	106.2	Ethylbenzene	ND	4.8	1.0	ppbv		ND	21	4.3	ug/m3
141-78-6	88	Ethyl Acetate	ND	4.8	1.8	ppbv		ND	17	6.5	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	4.8	0.40	ppbv		ND	24	2.0	ug/m3
76-13-1	187.4	Freon 113	ND	4.8	0.51	ppbv		ND	37	3.9	ug/m3
76-14-2	170.9	Freon 114	ND	4.8	0.75	ppbv		ND	34	5.2	ug/m3
142-82-5	100.2	Heptane	ND	4.8	0.48	ppbv		ND	20	2.0	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	4.8	0.49	ppbv		ND	51	5.2	ug/m3
110-54-3	86.17	Hexane	ND	4.8	0.54	ppbv		ND	17	1.9	ug/m3
591-78-6	100	2-Hexanone	ND	4.8	1.1	ppbv		ND	20	4.5	ug/m3
67-63-0	60.1	Isopropyl Alcohol	87.5	4.8	3.7	ppbv		215	12	9.1	ug/m3
75-09-2	84.94	Methylene chloride	ND	4.8	0.60	ppbv		ND	17	2.1	ug/m3
78-93-3	72.11	Methyl ethyl ketone	26.4	4.8	1.2	ppbv		77.9	14	3.5	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	4.8	1.3	ppbv		ND	20	5.3	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	4.8	0.47	ppbv		ND	17	1.7	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	4.8	0.96	ppbv		ND	20	3.9	ug/m3
115-07-1	42	Propylene	ND	12	0.78	ppbv		ND	21	1.3	ug/m3
100-42-5	104.1	Styrene	ND	4.8	0.37	ppbv		ND	20	1.6	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	4.8	0.56	ppbv		ND	26	3.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	4.8	0.39	ppbv		ND	33	2.7	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	4.8	0.93	ppbv		ND	26	5.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	4.8	1.3	ppbv		ND	36	9.7	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	4.8	0.36	ppbv		ND	24	1.8	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	4.8	1.1	ppbv		ND	24	5.4	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	4.8	0.54	ppbv		ND	22	2.5	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	43.8	4.8	1.3	ppbv		133	15	3.9	ug/m3
127-18-4	165.8	Tetrachloroethylene	21.3	0.96	0.55	ppbv		144	6.5	3.7	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	4.8	1.1	ppbv		ND	14	3.2	ug/m3
108-88-3	92.14	Toluene	ND	4.8	0.30	ppbv		ND	18	1.1	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.96	0.45	ppbv		ND	5.2	2.4	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	4.8	0.53	ppbv		ND	27	3.0	ug/m3
75-01-4	62.5	Vinyl chloride	ND	4.8	0.49	ppbv		ND	12	1.3	ug/m3
108-05-4	86	Vinyl Acetate	ND	4.8	1.3	ppbv		ND	17	4.6	ug/m3
	106.2	m,p-Xylene	5.6	4.8	1.6	ppbv		24	21	6.9	ug/m3
95-47-6	106.2	o-Xylene	2.3	4.8	1.2	ppbv	J	10	21	5.2	ug/m3
1330-20-7	106.2	Xylenes (total)	7.9	4.8	1.2	ppbv		34	21	5.2	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	99%		65-128%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SV-3		
Lab Sample ID: JC39442-3		Date Sampled: 03/21/17
Matrix: AIR - Soil Vapor Comp. Summa ID: A1212,M430		Date Received: 03/22/17
Method: TO-15		Percent Solids: n/a
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W23441.D	1.33	03/30/17	LM	n/a	n/a	V5W927
Run #2	5W23423.D	65	03/30/17	LM	n/a	n/a	V5W926

Run #1	Initial Volume
Run #1	20.0 ml
Run #2	100 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	338	5.3	0.96	ppbv		803	13	2.3	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	5.3	0.73	ppbv		ND	12	1.6	ug/m3
71-43-2	78.11	Benzene	ND	5.3	0.83	ppbv		ND	17	2.7	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	5.3	1.0	ppbv		ND	36	6.7	ug/m3
75-25-2	252.8	Bromoform	ND	5.3	0.42	ppbv		ND	55	4.3	ug/m3
74-83-9	94.94	Bromomethane	ND	5.3	0.49	ppbv		ND	21	1.9	ug/m3
593-60-2	106.9	Bromoethene	ND	5.3	0.49	ppbv		ND	23	2.1	ug/m3
100-44-7	126	Benzyl Chloride	ND	5.3	0.71	ppbv		ND	27	3.7	ug/m3
75-15-0	76.14	Carbon disulfide	ND	5.3	0.84	ppbv		ND	17	2.6	ug/m3
108-90-7	112.6	Chlorobenzene	ND	5.3	1.5	ppbv		ND	24	6.9	ug/m3
75-00-3	64.52	Chloroethane	ND	5.3	0.94	ppbv		ND	14	2.5	ug/m3
67-66-3	119.4	Chloroform	ND	5.3	0.44	ppbv		ND	26	2.1	ug/m3
74-87-3	50.49	Chloromethane	ND	5.3	1.4	ppbv		ND	11	2.9	ug/m3
107-05-1	76.53	3-Chloropropene	ND	5.3	0.71	ppbv		ND	17	2.2	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	5.3	0.45	ppbv		ND	27	2.3	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	5.3	0.83	ppbv		ND	33	5.2	ug/m3
110-82-7	84.16	Cyclohexane	ND	5.3	0.43	ppbv		ND	18	1.5	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	5.3	0.40	ppbv		ND	21	1.6	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	5.3	0.56	ppbv		ND	21	2.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	5.3	1.1	ppbv		ND	41	8.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	5.3	0.47	ppbv		ND	21	1.9	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	5.3	0.58	ppbv		ND	24	2.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	5.3	1.2	ppbv		ND	19	4.3	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	5.3	0.51	ppbv		ND	26	2.5	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	5.3	1.4	ppbv		ND	45	12	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	5.3	0.74	ppbv		ND	21	2.9	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	5.3	0.56	ppbv		ND	21	2.2	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	5.3	0.40	ppbv		ND	24	1.8	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	5.3	0.52	ppbv		ND	32	3.1	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	5.3	0.43	ppbv		ND	32	2.6	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	5.3	0.72	ppbv		ND	32	4.3	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	5.3	0.48	ppbv		ND	24	2.2	ug/m3

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SV-3		Date Sampled: 03/21/17
Lab Sample ID: JC39442-3		Date Received: 03/22/17
Matrix: AIR - Soil Vapor Comp. Summa ID: A1212,M430		Percent Solids: n/a
Method: TO-15		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	2200 ^a	130	19	ppbv		4150 ^a	240	36	ug/m3
100-41-4	106.2	Ethylbenzene	130	5.3	1.1	ppbv		565	23	4.8	ug/m3
141-78-6	88	Ethyl Acetate	ND	5.3	2.0	ppbv		ND	19	7.2	ug/m3
622-96-8	120.2	4-Ethyltoluene	9.7	5.3	0.44	ppbv		48	26	2.2	ug/m3
76-13-1	187.4	Freon 113	ND	5.3	0.57	ppbv		ND	41	4.4	ug/m3
76-14-2	170.9	Freon 114	ND	5.3	0.84	ppbv		ND	37	5.9	ug/m3
142-82-5	100.2	Heptane	ND	5.3	0.54	ppbv		ND	22	2.2	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	5.3	0.54	ppbv		ND	57	5.8	ug/m3
110-54-3	86.17	Hexane	ND	5.3	0.60	ppbv		ND	19	2.1	ug/m3
591-78-6	100	2-Hexanone	ND	5.3	1.2	ppbv		ND	22	4.9	ug/m3
67-63-0	60.1	Isopropyl Alcohol	348	5.3	4.1	ppbv		855	13	10	ug/m3
75-09-2	84.94	Methylene chloride	ND	5.3	0.66	ppbv		ND	18	2.3	ug/m3
78-93-3	72.11	Methyl ethyl ketone	3.0	5.3	1.3	ppbv	J	8.8	16	3.8	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	5.3	1.5	ppbv		ND	22	6.1	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	28.4	5.3	0.52	ppbv		102	19	1.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	5.3	1.1	ppbv		ND	22	4.5	ug/m3
115-07-1	42	Propylene	ND	13	0.86	ppbv		ND	22	1.5	ug/m3
100-42-5	104.1	Styrene	ND	5.3	0.41	ppbv		ND	23	1.7	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	5.3	0.63	ppbv		ND	29	3.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	5.3	0.43	ppbv		ND	36	3.0	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	5.3	1.0	ppbv		ND	29	5.5	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	5.3	1.5	ppbv		ND	39	11	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	18.5	5.3	0.40	ppbv		90.9	26	2.0	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	5.8	5.3	1.2	ppbv		29	26	5.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	5.3	0.60	ppbv		ND	25	2.8	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	9.2	5.3	1.4	ppbv		28	16	4.2	ug/m3
127-18-4	165.8	Tetrachloroethylene	432	1.1	0.61	ppbv		2930	7.5	4.1	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	5.3	1.2	ppbv		ND	16	3.5	ug/m3
108-88-3	92.14	Toluene	731 ^a	52	3.2	ppbv		2750 ^a	200	12	ug/m3
79-01-6	131.4	Trichloroethylene	ND	1.1	0.49	ppbv		ND	5.9	2.6	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	5.3	0.58	ppbv		ND	30	3.3	ug/m3
75-01-4	62.5	Vinyl chloride	ND	5.3	0.55	ppbv		ND	14	1.4	ug/m3
108-05-4	86	Vinyl Acetate	ND	5.3	1.4	ppbv		ND	19	4.9	ug/m3
	106.2	m,p-Xylene	511	5.3	1.8	ppbv		2220	23	7.8	ug/m3
95-47-6	106.2	o-Xylene	99.2	5.3	1.4	ppbv		431	23	6.1	ug/m3
1330-20-7	106.2	Xylenes (total)	610	5.3	1.4	ppbv		2650	23	6.1	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	96%	96%	65-128%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SV-3	Date Sampled: 03/21/17
Lab Sample ID: JC39442-3	Date Received: 03/22/17
Matrix: AIR - Soil Vapor Comp. Summa ID: A1212,M430	Percent Solids: n/a
Method: TO-15	
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
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(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SV-4		Date Sampled: 03/21/17
Lab Sample ID: JC39442-4		Date Received: 03/22/17
Matrix: AIR - Soil Vapor Comp. Summa ID: A1219		Percent Solids: n/a
Method: TO-15		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	3W59071.D	1.35	03/30/17	TCH	n/a	n/a	V3W2247

Run #1	Initial Volume
Run #2	20.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone	28.4	5.4	0.98	ppbv		67.5	13	2.3	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	5.4	0.75	ppbv		ND	12	1.7	ug/m3
71-43-2	78.11	Benzene	ND	5.4	0.85	ppbv		ND	17	2.7	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	5.4	1.0	ppbv		ND	36	6.7	ug/m3
75-25-2	252.8	Bromoform	ND	5.4	0.43	ppbv		ND	56	4.4	ug/m3
74-83-9	94.94	Bromomethane	ND	5.4	0.50	ppbv		ND	21	1.9	ug/m3
593-60-2	106.9	Bromoethene	ND	5.4	0.50	ppbv		ND	24	2.2	ug/m3
100-44-7	126	Benzyl Chloride	ND	5.4	0.72	ppbv		ND	28	3.7	ug/m3
75-15-0	76.14	Carbon disulfide	ND	5.4	0.85	ppbv		ND	17	2.6	ug/m3
108-90-7	112.6	Chlorobenzene	ND	5.4	1.5	ppbv		ND	25	6.9	ug/m3
75-00-3	64.52	Chloroethane	ND	5.4	0.96	ppbv		ND	14	2.5	ug/m3
67-66-3	119.4	Chloroform	ND	5.4	0.45	ppbv		ND	26	2.2	ug/m3
74-87-3	50.49	Chloromethane	ND	5.4	1.4	ppbv		ND	11	2.9	ug/m3
107-05-1	76.53	3-Chloropropene	ND	5.4	0.72	ppbv		ND	17	2.3	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	5.4	0.46	ppbv		ND	28	2.4	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	5.4	0.84	ppbv		ND	34	5.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	5.4	0.44	ppbv		ND	19	1.5	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	5.4	0.41	ppbv		ND	22	1.7	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	5.4	0.56	ppbv		ND	21	2.2	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	5.4	1.1	ppbv		ND	41	8.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	5.4	0.47	ppbv		ND	22	1.9	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	5.4	0.59	ppbv		ND	25	2.7	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	5.4	1.2	ppbv		ND	19	4.3	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	5.4	0.52	ppbv		ND	27	2.6	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	5.4	1.4	ppbv		ND	46	12	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	5.4	0.76	ppbv		ND	21	3.0	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	5.4	0.57	ppbv		ND	21	2.3	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	5.4	0.41	ppbv		ND	25	1.9	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	5.4	0.53	ppbv		ND	32	3.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	5.4	0.43	ppbv		ND	32	2.6	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	5.4	0.73	ppbv		ND	32	4.4	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	5.4	0.49	ppbv		ND	25	2.2	ug/m3

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SV-4		Date Sampled: 03/21/17
Lab Sample ID: JC39442-4		Date Received: 03/22/17
Matrix: AIR - Soil Vapor Comp. Summa ID: A1219		Percent Solids: n/a
Method: TO-15		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	65.2	14	2.0	ppbv		123	26	3.8	ug/m3
100-41-4	106.2	Ethylbenzene	87.8	5.4	1.1	ppbv		381	23	4.8	ug/m3
141-78-6	88	Ethyl Acetate	2.7	5.4	2.0	ppbv	J	9.7	19	7.2	ug/m3
622-96-8	120.2	4-Ethyltoluene	10.0	5.4	0.45	ppbv		49.2	27	2.2	ug/m3
76-13-1	187.4	Freon 113	ND	5.4	0.58	ppbv		ND	41	4.4	ug/m3
76-14-2	170.9	Freon 114	ND	5.4	0.85	ppbv		ND	38	5.9	ug/m3
142-82-5	100.2	Heptane	ND	5.4	0.55	ppbv		ND	22	2.3	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	5.4	0.55	ppbv		ND	58	5.9	ug/m3
110-54-3	86.17	Hexane	ND	5.4	0.61	ppbv		ND	19	2.1	ug/m3
591-78-6	100	2-Hexanone	ND	5.4	1.2	ppbv		ND	22	4.9	ug/m3
67-63-0	60.1	Isopropyl Alcohol	16.4	5.4	4.2	ppbv		40.3	13	10	ug/m3
75-09-2	84.94	Methylene chloride	ND	5.4	0.67	ppbv		ND	19	2.3	ug/m3
78-93-3	72.11	Methyl ethyl ketone	5.2	5.4	1.3	ppbv	J	15	16	3.8	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	5.4	1.5	ppbv		ND	22	6.1	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	5.4	0.53	ppbv		ND	19	1.9	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	5.4	1.1	ppbv		ND	22	4.5	ug/m3
115-07-1	42	Propylene	ND	14	0.87	ppbv		ND	24	1.5	ug/m3
100-42-5	104.1	Styrene	23.7	5.4	0.42	ppbv		101	23	1.8	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	5.4	0.63	ppbv		ND	29	3.4	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	5.4	0.43	ppbv		ND	37	3.0	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	5.4	1.0	ppbv		ND	29	5.5	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	5.4	1.5	ppbv		ND	40	11	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	29.7	5.4	0.41	ppbv		146	27	2.0	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	8.4	5.4	1.2	ppbv		41	27	5.9	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	5.4	0.61	ppbv		ND	25	2.8	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	20.1	5.4	1.4	ppbv		60.9	16	4.2	ug/m3
127-18-4	165.8	Tetrachloroethylene	272	1.1	0.62	ppbv		1840	7.5	4.2	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	5.4	1.2	ppbv		ND	16	3.5	ug/m3
108-88-3	92.14	Toluene	79.8	5.4	0.33	ppbv		301	20	1.2	ug/m3
79-01-6	131.4	Trichloroethylene	1.2	1.1	0.50	ppbv		6.4	5.9	2.7	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	5.4	0.59	ppbv		ND	30	3.3	ug/m3
75-01-4	62.5	Vinyl chloride	ND	5.4	0.56	ppbv		ND	14	1.4	ug/m3
108-05-4	86	Vinyl Acetate	ND	5.4	1.5	ppbv		ND	19	5.3	ug/m3
	106.2	m,p-Xylene	482	5.4	1.8	ppbv		2090	23	7.8	ug/m3
95-47-6	106.2	o-Xylene	173	5.4	1.4	ppbv		751	23	6.1	ug/m3
1330-20-7	106.2	Xylenes (total)	655	5.4	1.4	ppbv		2850	23	6.1	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	108%		65-128%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

AIR CHAIN OF CUSTODY

SGS Accutest - Dayton
 2235 Route 130, Dayton, NJ 08810
 TEL: 732-329-0200 FAX: 732-329-3499/3480
 www.accutest.com

FED-EX Tracking # VP 031717-121
 Lab Quote # VC39442

Client / Reporting Information				Project Information				Weather Parameters				Requested Analysis				
Company Name: <u>EBI consulting</u>				Project Name: <u>159-161 Alexander st</u>				Temperature (Fahrenheit)				Requested Analysis				
Address: <u>21 B Street</u>				Street: <u>159-161 Alexander st</u>				Start: _____ Maximum: _____		Stop: _____ Minimum: _____						
City: <u>Burlington</u> State: <u>MT</u> Zip: <u>01803</u>				City: <u>Worcester</u> State: <u>MA</u>				Atmospheric Pressure (inches of Hg)								
Project Contact: <u>Bryan Shaw</u> E-mail: <u>bshaw@ebiconsulting.com</u>				Project #: <u>1217-000088</u>				Start: _____ Maximum: _____		Stop: _____ Minimum: _____						
Phone #: <u>(253) 843-1245</u> Fax #: _____				Client Purchase Order #: <u>217 202088</u>				Other weather comment: _____								
Sampler(s) Name(s)																
Lab Sample #	Field ID / Point of Collection	Air Type		Sampling Equipment Info			Start Sampling Information					Stop Sampling Information				
		Indoor(I) Soil Vap(SV) Ambient(A)	Canister Serial #	Canister Size EL or 1L	Flow Controller Serial #	Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	
1	SV-1	SV	A1228	1L	FC647	3/11/17	1527	30	NA	AK	3/11/17	1537	5	NA	BS	X
2	SV-2	SV	A1254	1L	MC234	3/11/17	1540	28	NA	DS	3/11/17	1550	7	NA	BS	X
3	SV-3	SV	A1212	1L	FC457	3/11/17	1830	29	NA	DS	3/11/17	1840	7	NA	AK	X
4	SV-4	SV	A1219	1L	FC65	3/11/17	1845	29	NA	AK	3/11/17	1855	7	NA	AK	X
Turnaround Time (Business days)				Data Deliverable Information				Comments / Remarks								
Standard - 15 Days 10 Day 5 Day <u>X</u> 3 Day 2 Day 1 Day Other				Approved By: _____ Date: _____				All NJDEP TO-15 is mandatory Full T1 Comm A Comm B Reduced T2 Full T1 Other: _____ DKQP reporting				INITIAL ASSESSMENT <u>UB/R</u> LABEL VERIFICATION <u>AK</u> Sample inventory is verified upon receipt in the Laboratory				
Sample Custody must be documented below each time samples change possession, including courier delivery.																
Relinquished by: <u>Ray Maurano</u>		Date Time: <u>3/11/17 15:20</u>		Received By: <u>Fed Ex</u>		Relinquished By: <u>Fed Ex</u>		Date Time: _____		Received By: <u>CLIENT</u>						
Relinquished by: <u>[Signature]</u>		Date Time: <u>3/11/17 15:20</u>		Received By: <u>[Signature]</u>		Relinquished By: <u>[Signature]</u>		Date Time: <u>3/22/17 16:00</u>		Received By: <u>[Signature]</u>						
Relinquished by: _____		Date Time: _____		Received By: _____		Relinquished By: _____		Date Time: _____		Received By: _____						

4.1
4

TO-15

SGS Accutest Sample Receipt Summary

Job Number: JC39442

Client: _____

Project: _____

Date / Time Received: 3/22/2017 6:00:00 PM

Delivery Method: _____

Airbill #'s: _____

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

<u>Cooler Security</u>	<u>Y or N</u>		<u>Y or N</u>	<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>	
1. Temp criteria achieved:	<input type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	N/A	
3. Cooler media:	N/A	
4. No. Coolers:	N/A	

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	Intact		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

SM089-02
Rev. Date 12/1/16

JC39442: Chain of Custody

Page 2 of 2

4.1
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Summa Canister and Flow Controller Log

Job Number: JC39442
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY
Received: 03/22/17

SUMMA CANISTERS													
Shipping							Receiving						
Summa ID	Vac L	Date " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A1254	1	29.4	03/17/17	RD	CP9064	3W58825.D	JC39442-1	03/24/17	RD	7.5			1
A1228	1	29.4	03/17/17	RD	CP9064	3W58825.D	JC39442-2	03/24/17	RD	3			1
A1212	1	29.4	03/17/17	RD	CP9064	3W58825.D	JC39442-3	03/24/17	RD	5.5			1
A1219	1	29.4	03/17/17	RD	CP9064	3W58825.D	JC39442-4	03/24/17	RD	6			1

FLOW CONTROLLERS / OTHER										
Shipping					Receiving					
Flow Ctrl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	Flow RPD	Equipment Type	
FC457	03/17/17	RD	75	.16	03/24/17	RD	74.3	0.9	Flow Controller	
FC651	03/17/17	RD	75	.16	03/24/17	RD	70.6	6	Flow Controller	
MC234	03/17/17	RD	75	.16	03/24/17	RD	73.5	2	Flow Controller	

SGS Accutest Bottle Order(s):
 VP_031717_121

Prep Date **Room Temp(F)** **Bar Pres "Hg**
 03/17/17 70 29.92

4.2
4

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W926-MB	5W23408.D	1	03/29/17	LM	n/a	n/a	V5W926

The QC reported here applies to the following samples:

Method: TO-15

JC39442-3

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	Ethanol	ND	0.50	0.075	ppbv		ND	0.94	ug/m3
108-88-3	Toluene	ND	0.20	0.012	ppbv		ND	0.75	ug/m3

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	95% 65-128%

Method Blank Summary

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2247-MB	3W59067.D	1	03/30/17	TCH	n/a	n/a	V3W2247

The QC reported here applies to the following samples:

Method: TO-15

JC39442-4

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.036	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.028	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.031	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.039	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.016	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.018	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.027	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.031	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.056	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.036	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.017	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.052	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.027	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.017	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.031	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.016	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.015	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.042	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.018	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.022	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.045	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.019	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.053	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.015	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.020	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.016	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.018	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.075	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.042	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.075	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.017	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2247-MB	3W59067.D	1	03/30/17	TCH	n/a	n/a	V3W2247

The QC reported here applies to the following samples:

Method: TO-15

JC39442-4

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.021	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.020	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.020	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.023	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.16	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.025	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.048	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.055	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.020	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.040	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.032	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.015	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.016	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.039	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.056	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.015	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.045	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.023	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.053	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.045	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.012	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.021	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.054	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.068	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.051	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.051	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2247-MB	3W59067.D	1	03/30/17	TCH	n/a	n/a	V3W2247

The QC reported here applies to the following samples:

Method: TO-15

JC39442-4

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	85% 65-128%

5.1.2
5

Method Blank Summary

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W927-MB	5W23437.D	1	03/30/17	LM	n/a	n/a	V5W927

The QC reported here applies to the following samples:

Method: TO-15

JC39442-1, JC39442-2, JC39442-3

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.036	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.028	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.031	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.039	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.016	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.018	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.027	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.031	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.056	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.036	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.017	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.052	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.027	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.017	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.031	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.016	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.015	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.042	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.018	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.022	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.045	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.019	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.053	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.015	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.020	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.016	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.018	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.075	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.042	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.075	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.017	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W927-MB	5W23437.D	1	03/30/17	LM	n/a	n/a	V5W927

The QC reported here applies to the following samples:

Method: TO-15

JC39442-1, JC39442-2, JC39442-3

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.021	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.020	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.020	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.023	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.16	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.025	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.048	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.055	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.020	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.040	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.032	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.015	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.016	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.039	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.056	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.015	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.045	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.023	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.053	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.045	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.012	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.021	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.054	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.068	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.051	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.051	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W927-MB	5W23437.D	1	03/30/17	LM	n/a	n/a	V5W927

The QC reported here applies to the following samples:

Method: TO-15

JC39442-1, JC39442-2, JC39442-3

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	93% 65-128%

Method Blank Summary

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2204-MB	3W58087.D	1	01/24/17	TCH	n/a	n/a	V3W2204

The QC reported here applies to the following samples:

Method: TO-15

V3W2204-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	Ethanol	ND	0.50	0.075	ppbv		ND	0.94	ug/m3
108-88-3	Toluene	ND	0.20	0.012	ppbv		ND	0.75	ug/m3

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	80% 65-128%

Method Blank Summary

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2236-MB	3W58822.D	1	03/16/17	TCH	n/a	n/a	V3W2236

The QC reported here applies to the following samples:

Method: TO-15

V3W2236-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.036	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.028	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.031	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.039	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.016	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.018	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.027	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.031	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.056	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.036	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.017	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.052	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.027	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.017	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.031	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.016	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.015	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.042	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.018	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.022	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.045	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.019	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.053	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.015	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.020	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.016	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.018	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.075	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.042	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.075	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.017	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2236-MB	3W58822.D	1	03/16/17	TCH	n/a	n/a	V3W2236

The QC reported here applies to the following samples:

Method: TO-15

V3W2236-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.021	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.020	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.020	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.023	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.16	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.025	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.048	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.055	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.020	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.040	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.032	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.015	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.016	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.039	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.056	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.015	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.045	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.023	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.053	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.045	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.012	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.021	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.054	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.068	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.051	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.051	ppbv		ND	0.87	ug/m3

5.1.5
5

Method Blank Summary

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2236-MB	3W58822.D	1	03/16/17	TCH	n/a	n/a	V3W2236

The QC reported here applies to the following samples:

Method: TO-15

V3W2236-SCC

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	87% 65-128%

5.1.5
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W926-BS	5W23405.D	1	03/29/17	LM	n/a	n/a	V5W926
V5W926-BSD	5W23406.D	1	03/29/17	LM	n/a	n/a	V5W926

The QC reported here applies to the following samples:

Method: TO-15

JC39442-3

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
64-17-5	Ethanol	10	9.1	91	8.7	87	4	70-130/30
108-88-3	Toluene	10	9.3	93	9.5	95	2	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	96%	94%	65-128%

* = Outside of Control Limits.

5.2.1
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W927-BS	5W23433.D	1	03/30/17	LM	n/a	n/a	V5W927
V5W927-BSD	5W23434.D	1	03/30/17	LM	n/a	n/a	V5W927

The QC reported here applies to the following samples:

Method: TO-15

JC39442-1, JC39442-2, JC39442-3

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	9.4	94	9.3	93	1	70-130/30
106-99-0	1,3-Butadiene	10	10.8	108	10.2	102	6	70-130/30
71-43-2	Benzene	10	9.5	95	9.3	93	2	70-130/30
75-27-4	Bromodichloromethane	10	11.1	111	10.8	108	3	70-130/30
75-25-2	Bromoform	10	12.0	120	12.2	122	2	70-130/30
74-83-9	Bromomethane	10	10.6	106	10.2	102	4	70-130/30
593-60-2	Bromoethene	10	10.2	102	10.0	100	2	70-130/30
100-44-7	Benzyl Chloride	10	10.8	108	10.2	102	6	70-130/30
75-15-0	Carbon disulfide	10	10.9	109	10.6	106	3	70-130/30
108-90-7	Chlorobenzene	10	11.1	111	10.8	108	3	70-130/30
75-00-3	Chloroethane	10	10.5	105	10.0	100	5	70-130/30
67-66-3	Chloroform	10	10.1	101	9.8	98	3	70-130/30
74-87-3	Chloromethane	10	11.1	111	10.6	106	5	70-130/30
107-05-1	3-Chloropropene	10	10.7	107	10.6	106	1	70-130/30
95-49-8	2-Chlorotoluene	10	9.8	98	10.1	101	3	70-130/30
56-23-5	Carbon tetrachloride	10	11.4	114	11.4	114	0	70-130/30
110-82-7	Cyclohexane	10	9.0	90	8.8	88	2	70-130/30
75-34-3	1,1-Dichloroethane	10	9.8	98	9.5	95	3	70-130/30
75-35-4	1,1-Dichloroethylene	10	9.5	95	9.3	93	2	70-130/30
106-93-4	1,2-Dibromoethane	10	11.0	110	10.9	109	1	70-130/30
107-06-2	1,2-Dichloroethane	10	10.8	108	10.5	105	3	70-130/30
78-87-5	1,2-Dichloropropane	10	10.3	103	9.9	99	4	70-130/30
123-91-1	1,4-Dioxane	10	10.3	103	10.1	101	2	70-130/30
75-71-8	Dichlorodifluoromethane	10	10.8	108	10.6	106	2	70-130/30
124-48-1	Dibromochloromethane	10	11.8	118	11.8	118	0	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	10.4	104	10.1	101	3	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	9.8	98	9.6	96	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	10.7	107	10.4	104	3	70-130/30
541-73-1	m-Dichlorobenzene	10	10.3	103	10.1	101	2	70-130/30
95-50-1	o-Dichlorobenzene	10	10.9	109	10.5	105	4	70-130/30
106-46-7	p-Dichlorobenzene	10	10.7	107	10.4	104	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	11.1	111	11.1	111	0	70-130/30
64-17-5	Ethanol	10	8.7	87	8.4	84	4	70-130/30
100-41-4	Ethylbenzene	10	9.9	99	9.9	99	0	70-130/30
141-78-6	Ethyl Acetate	10	11.2	112	10.9	109	3	70-130/30
622-96-8	4-Ethyltoluene	10	9.7	97	9.7	97	0	70-130/30

* = Outside of Control Limits.

5.2.2
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W927-BS	5W23433.D	1	03/30/17	LM	n/a	n/a	V5W927
V5W927-BSD	5W23434.D	1	03/30/17	LM	n/a	n/a	V5W927

The QC reported here applies to the following samples:

Method: TO-15

JC39442-1, JC39442-2, JC39442-3

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.7	97	9.4	94	3	70-130/30
76-14-2	Freon 114	10	11.3	113	10.8	108	5	70-130/30
142-82-5	Heptane	10	9.9	99	9.6	96	3	70-130/30
87-68-3	Hexachlorobutadiene	10	8.3	83	8.8	88	6	70-130/30
110-54-3	Hexane	10	9.3	93	9.0	90	3	70-130/30
591-78-6	2-Hexanone	10	10.8	108	10.6	106	2	70-130/30
67-63-0	Isopropyl Alcohol	10	9.9	99	9.3	93	6	70-130/30
75-09-2	Methylene chloride	10	9.0	90	8.8	88	2	70-130/30
78-93-3	Methyl ethyl ketone	10	10.5	105	10.3	103	2	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	10.4	104	10.4	104	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	9.5	95	9.3	93	2	70-130/30
80-62-6	Methylmethacrylate	10	9.7	97	9.5	95	2	70-130/30
115-07-1	Propylene	10	9.5	95	9.2	92	3	70-130/30
100-42-5	Styrene	10	9.7	97	9.7	97	0	70-130/30
71-55-6	1,1,1-Trichloroethane	10	10	100	9.9	99	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	10.8	108	10.6	106	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10	10.3	103	10.2	102	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	10.5	105	10.8	108	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.4	104	10.2	102	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	9.8	98	9.7	97	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	10.5	105	10	100	5	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	8.5	85	8.5	85	0	70-130/30
127-18-4	Tetrachloroethylene	10	10.4	104	10.4	104	0	70-130/30
109-99-9	Tetrahydrofuran	10	9.6	96	9.3	93	3	70-130/30
108-88-3	Toluene	10	9.6	96	9.5	95	1	70-130/30
79-01-6	Trichloroethylene	10	10.6	106	10.2	102	4	70-130/30
75-69-4	Trichlorofluoromethane	10	10.5	105	10.4	104	1	70-130/30
75-01-4	Vinyl chloride	10	11.6	116	10.9	109	6	70-130/30
108-05-4	Vinyl Acetate	10	10.3	103	10.0	100	3	70-130/30
	m,p-Xylene	20	20.8	104	19.5	98	6	70-130/30
95-47-6	o-Xylene	10	9.8	98	9.9	99	1	70-130/30
1330-20-7	Xylenes (total)	30	30.6	102	29.4	98	4	70-130/30

* = Outside of Control Limits.

5.2.2
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC39442
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W927-BS	5W23433.D	1	03/30/17	LM	n/a	n/a	V5W927
V5W927-BSD	5W23434.D	1	03/30/17	LM	n/a	n/a	V5W927

The QC reported here applies to the following samples:

Method: TO-15

JC39442-1, JC39442-2, JC39442-3

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	93%	97%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2247-BS	3W59064.D	1	03/30/17	TCH	n/a	n/a	V3W2247
V3W2247-BSD	3W59065.D	1	03/30/17	TCH	n/a	n/a	V3W2247

The QC reported here applies to the following samples:

Method: TO-15

JC39442-4

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	8.0	80	7.5	75	6	70-130/30
106-99-0	1,3-Butadiene	10	9.0	90	8.6	86	5	70-130/30
71-43-2	Benzene	10	9.1	91	8.8	88	3	70-130/30
75-27-4	Bromodichloromethane	10	9.7	97	9.3	93	4	70-130/30
75-25-2	Bromoform	10	10.1	101	9.8	98	3	70-130/30
74-83-9	Bromomethane	10	8.8	88	8.5	85	3	70-130/30
593-60-2	Bromoethene	10	9.5	95	9.0	90	5	70-130/30
100-44-7	Benzyl Chloride	10	10.1	101	9.6	96	5	70-130/30
75-15-0	Carbon disulfide	10	10.5	105	10.2	102	3	70-130/30
108-90-7	Chlorobenzene	10	9.3	93	9.0	90	3	70-130/30
75-00-3	Chloroethane	10	9.9	99	9.6	96	3	70-130/30
67-66-3	Chloroform	10	9.3	93	8.9	89	4	70-130/30
74-87-3	Chloromethane	10	10.1	101	9.6	96	5	70-130/30
107-05-1	3-Chloropropene	10	10.1	101	9.7	97	4	70-130/30
95-49-8	2-Chlorotoluene	10	9.8	98	9.4	94	4	70-130/30
56-23-5	Carbon tetrachloride	10	9.7	97	9.3	93	4	70-130/30
110-82-7	Cyclohexane	10	9.1	91	8.8	88	3	70-130/30
75-34-3	1,1-Dichloroethane	10	9.0	90	8.7	87	3	70-130/30
75-35-4	1,1-Dichloroethylene	10	8.9	89	8.5	85	5	70-130/30
106-93-4	1,2-Dibromoethane	10	9.0	90	8.8	88	2	70-130/30
107-06-2	1,2-Dichloroethane	10	9.7	97	9.2	92	5	70-130/30
78-87-5	1,2-Dichloropropane	10	9.6	96	9.2	92	4	70-130/30
123-91-1	1,4-Dioxane	10	8.4	84	8.6	86	2	70-130/30
75-71-8	Dichlorodifluoromethane	10	8.3	83	7.8	78	6	70-130/30
124-48-1	Dibromochloromethane	10	9.8	98	9.5	95	3	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	9.0	90	8.7	87	3	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	8.4	84	8.1	81	4	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	9.2	92	8.9	89	3	70-130/30
541-73-1	m-Dichlorobenzene	10	10	100	9.4	94	6	70-130/30
95-50-1	o-Dichlorobenzene	10	10.5	105	10.0	100	5	70-130/30
106-46-7	p-Dichlorobenzene	10	10.3	103	9.8	98	5	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	9.1	91	8.7	87	4	70-130/30
64-17-5	Ethanol	10	8.6	86	7.9	79	8	70-130/30
100-41-4	Ethylbenzene	10	9.5	95	9.1	91	4	70-130/30
141-78-6	Ethyl Acetate	10	10.1	101	9.4	94	7	70-130/30
622-96-8	4-Ethyltoluene	10	10	100	9.5	95	5	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2247-BS	3W59064.D	1	03/30/17	TCH	n/a	n/a	V3W2247
V3W2247-BSD	3W59065.D	1	03/30/17	TCH	n/a	n/a	V3W2247

The QC reported here applies to the following samples:

Method: TO-15

JC39442-4

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.4	94	9.1	91	3	70-130/30
76-14-2	Freon 114	10	10.1	101	9.7	97	4	70-130/30
142-82-5	Heptane	10	8.9	89	8.6	86	3	70-130/30
87-68-3	Hexachlorobutadiene	10	9.2	92	8.9	89	3	70-130/30
110-54-3	Hexane	10	9.7	97	9.1	91	6	70-130/30
591-78-6	2-Hexanone	10	9.2	92	9.1	91	1	70-130/30
67-63-0	Isopropyl Alcohol	10	7.6	76	7.3	73	4	70-130/30
75-09-2	Methylene chloride	10	8.4	84	8.2	82	2	70-130/30
78-93-3	Methyl ethyl ketone	10	8.9	89	8.3	83	7	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	9.0	90	8.7	87	3	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	8.9	89	8.2	82	8	70-130/30
80-62-6	Methylmethacrylate	10	8.4	84	7.9	79	6	70-130/30
115-07-1	Propylene	10	9.2	92	8.7	87	6	70-130/30
100-42-5	Styrene	10	9.7	97	9.3	93	4	70-130/30
71-55-6	1,1,1-Trichloroethane	10	8.9	89	8.5	85	5	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	9.6	96	9.1	91	5	70-130/30
79-00-5	1,1,2-Trichloroethane	10	8.8	88	8.4	84	5	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	9.6	96	9.6	96	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	10.5	105	9.9	99	6	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	9.7	97	9.3	93	4	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	9.3	93	9.0	90	3	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	8.6	86	8.2	82	5	70-130/30
127-18-4	Tetrachloroethylene	10	9.4	94	9.1	91	3	70-130/30
109-99-9	Tetrahydrofuran	10	9.0	90	8.3	83	8	70-130/30
108-88-3	Toluene	10	9.5	95	9.2	92	3	70-130/30
79-01-6	Trichloroethylene	10	8.4	84	8.1	81	4	70-130/30
75-69-4	Trichlorofluoromethane	10	10.4	104	9.9	99	5	70-130/30
75-01-4	Vinyl chloride	10	10.0	100	9.5	95	5	70-130/30
108-05-4	Vinyl Acetate	10	9.1	91	8.3	83	9	70-130/30
	m,p-Xylene	20	19.4	97	18.6	93	4	70-130/30
95-47-6	o-Xylene	10	9.9	99	9.5	95	4	70-130/30
1330-20-7	Xylenes (total)	30	29.4	98	28.1	94	5	70-130/30

* = Outside of Control Limits.

5.2.3
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC39442
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2247-BS	3W59064.D	1	03/30/17	TCH	n/a	n/a	V3W2247
V3W2247-BSD	3W59065.D	1	03/30/17	TCH	n/a	n/a	V3W2247

The QC reported here applies to the following samples:

Method: TO-15

JC39442-4

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	102%	101%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2204-BS	3W58084.D	1	01/24/17	TCH	n/a	n/a	V3W2204
V3W2204-BSD	3W58085.D	1	01/24/17	TCH	n/a	n/a	V3W2204

The QC reported here applies to the following samples:

Method: TO-15

V3W2204-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
64-17-5	Ethanol	10	10	100	9.5	95	5	70-130/30
108-88-3	Toluene	10	12.6	126	12.5	125	1	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	97%	97%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2236-BS	3W58819.D	1	03/16/17	TCH	n/a	n/a	V3W2236
V3W2236-BSD	3W58820.D	1	03/16/17	TCH	n/a	n/a	V3W2236

The QC reported here applies to the following samples:

Method: TO-15

V3W2236-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	10	8.3	83	8.7	87	5	70-130/30
106-99-0	1,3-Butadiene	10	9.2	92	9.9	99	7	70-130/30
71-43-2	Benzene	10	8.5	85	8.4	84	1	70-130/30
75-27-4	Bromodichloromethane	10	8.8	88	8.5	85	3	70-130/30
75-25-2	Bromoform	10	10.7	107	10.2	102	5	70-130/30
74-83-9	Bromomethane	10	9.3	93	10.0	100	7	70-130/30
593-60-2	Bromoethene	10	9.4	94	10	100	6	70-130/30
100-44-7	Benzyl Chloride	10	10.7	107	10.1	101	6	70-130/30
75-15-0	Carbon disulfide	10	9.8	98	10.6	106	8	70-130/30
108-90-7	Chlorobenzene	10	9.5	95	9.2	92	3	70-130/30
75-00-3	Chloroethane	10	9.3	93	10.0	100	7	70-130/30
67-66-3	Chloroform	10	8.6	86	9.0	90	5	70-130/30
74-87-3	Chloromethane	10	9.5	95	10.1	101	6	70-130/30
107-05-1	3-Chloropropene	10	9.0	90	9.6	96	6	70-130/30
95-49-8	2-Chlorotoluene	10	10.2	102	10	100	2	70-130/30
56-23-5	Carbon tetrachloride	10	9.6	96	10	100	4	70-130/30
110-82-7	Cyclohexane	10	8.4	84	8.3	83	1	70-130/30
75-34-3	1,1-Dichloroethane	10	8.0	80	8.4	84	5	70-130/30
75-35-4	1,1-Dichloroethylene	10	8.2	82	8.7	87	6	70-130/30
106-93-4	1,2-Dibromoethane	10	9.4	94	8.8	88	7	70-130/30
107-06-2	1,2-Dichloroethane	10	9.2	92	9.5	95	3	70-130/30
78-87-5	1,2-Dichloropropane	10	8.8	88	8.7	87	1	70-130/30
123-91-1	1,4-Dioxane	10	9.3	93	9.3	93	0	70-130/30
75-71-8	Dichlorodifluoromethane	10	10.4	104	11.1	111	7	70-130/30
124-48-1	Dibromochloromethane	10	9.9	99	9.5	95	4	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10	8.6	86	9.1	91	6	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10	8.3	83	8.7	87	5	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10	9.1	91	8.7	87	4	70-130/30
541-73-1	m-Dichlorobenzene	10	11.1	111	10.5	105	6	70-130/30
95-50-1	o-Dichlorobenzene	10	11.5	115	10.9	109	5	70-130/30
106-46-7	p-Dichlorobenzene	10	10.9	109	10.3	103	6	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10	9.2	92	8.6	86	7	70-130/30
64-17-5	Ethanol	10	9.3	93	9.9	99	6	70-130/30
100-41-4	Ethylbenzene	10	9.0	90	8.9	89	1	70-130/30
141-78-6	Ethyl Acetate	10	9.5	95	9.8	98	3	70-130/30
622-96-8	4-Ethyltoluene	10	10.5	105	10.3	103	2	70-130/30

* = Outside of Control Limits.

5.2.5
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2236-BS	3W58819.D	1	03/16/17	TCH	n/a	n/a	V3W2236
V3W2236-BSD	3W58820.D	1	03/16/17	TCH	n/a	n/a	V3W2236

The QC reported here applies to the following samples:

Method: TO-15

V3W2236-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10	9.4	94	10	100	6	70-130/30
76-14-2	Freon 114	10	10.4	104	11.2	112	7	70-130/30
142-82-5	Heptane	10	8.2	82	8.2	82	0	70-130/30
87-68-3	Hexachlorobutadiene	10	11.7	117	10.9	109	7	70-130/30
110-54-3	Hexane	10	8.4	84	8.8	88	5	70-130/30
591-78-6	2-Hexanone	10	9.0	90	8.8	88	2	70-130/30
67-63-0	Isopropyl Alcohol	10	8.9	89	9.5	95	7	70-130/30
75-09-2	Methylene chloride	10	7.5	75	7.9	79	5	70-130/30
78-93-3	Methyl ethyl ketone	10	8.8	88	9.2	92	4	70-130/30
108-10-1	Methyl Isobutyl Ketone	10	8.8	88	8.7	87	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10	8.3	83	8.9	89	7	70-130/30
80-62-6	Methylmethacrylate	10	8.3	83	8.0	80	4	70-130/30
115-07-1	Propylene	10	9.9	99	10.6	106	7	70-130/30
100-42-5	Styrene	10	10.0	100	9.6	96	4	70-130/30
71-55-6	1,1,1-Trichloroethane	10	8.2	82	8.6	86	5	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10	9.8	98	9.5	95	3	70-130/30
79-00-5	1,1,2-Trichloroethane	10	8.6	86	8.4	84	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10	10.6	106	10.5	105	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	10	11.0	110	10.7	107	3	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10	10.3	103	10.1	101	2	70-130/30
540-84-1	2,2,4-Trimethylpentane	10	8.7	87	8.6	86	1	70-130/30
75-65-0	Tertiary Butyl Alcohol	10	8.7	87	9.4	94	8	70-130/30
127-18-4	Tetrachloroethylene	10	9.3	93	9.0	90	3	70-130/30
109-99-9	Tetrahydrofuran	10	9.0	90	9.6	96	6	70-130/30
108-88-3	Toluene	10	9.0	90	8.9	89	1	70-130/30
79-01-6	Trichloroethylene	10	8.5	85	8.2	82	4	70-130/30
75-69-4	Trichlorofluoromethane	10	10.1	101	10.8	108	7	70-130/30
75-01-4	Vinyl chloride	10	9.7	97	10.5	105	8	70-130/30
108-05-4	Vinyl Acetate	10	8.7	87	8.8	88	1	70-130/30
	m,p-Xylene	20	19.3	97	19.1	96	1	70-130/30
95-47-6	o-Xylene	10	9.8	98	9.7	97	1	70-130/30
1330-20-7	Xylenes (total)	30	29.2	97	28.8	96	1	70-130/30

* = Outside of Control Limits.

5.2.5
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2236-BS	3W58819.D	1	03/16/17	TCH	n/a	n/a	V3W2236
V3W2236-BSD	3W58820.D	1	03/16/17	TCH	n/a	n/a	V3W2236

The QC reported here applies to the following samples:

Method: TO-15

V3W2236-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	106%	105%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39045-3DUP	5W23417.D	1	03/29/17	LM	n/a	n/a	V5W926
JC39045-3 ^a	5W23416.D	1	03/29/17	LM	n/a	n/a	V5W926

The QC reported here applies to the following samples:

Method: TO-15

JC39442-3

CAS No.	Compound	JC39045-3		DUP		RPD	Limits
		ppbv	Q	ppbv	Q		
64-17-5	Ethanol	75.1		75.7		1	33
108-88-3	Toluene	22.0		22.7		3	20

CAS No.	Surrogate Recoveries	DUP	JC39045-3	Limits
460-00-4	4-Bromofluorobenzene	99%		65-128%

(a) Sample used for QC purposes only.

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC39442
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39106-4QDUP	5W23445.D	1	03/30/17	LM	n/a	n/a	V5W927
JC39106-4Q	5W23444.D	1	03/30/17	LM	n/a	n/a	V5W927

The QC reported here applies to the following samples:

Method: TO-15

JC39442-1, JC39442-2, JC39442-3

CAS No.	Compound	JC39106-4Q DUP		Q	RPD	Limits
		ppbv	Q ppbv			
67-64-1	Acetone	6.7	7.3		9	27
106-99-0	1,3-Butadiene	ND	ND		nc	20
71-43-2	Benzene	0.14	J 0.16	J	13	17
75-27-4	Bromodichloromethane	ND	ND		nc	20
75-25-2	Bromoform	ND	ND		nc	20
74-83-9	Bromomethane	ND	ND		nc	20
593-60-2	Bromoethene	ND	ND		nc	30
100-44-7	Benzyl Chloride	ND	ND		nc	20
75-15-0	Carbon disulfide	ND	ND		nc	11
108-90-7	Chlorobenzene	ND	ND		nc	20
75-00-3	Chloroethane	ND	ND		nc	20
67-66-3	Chloroform	ND	ND		nc	12
74-87-3	Chloromethane	0.59	0.67		13	22
107-05-1	3-Chloropropene	ND	ND		nc	10
95-49-8	2-Chlorotoluene	ND	ND		nc	20
56-23-5	Carbon tetrachloride	ND	ND		nc	10
110-82-7	Cyclohexane	ND	ND		nc	12
75-34-3	1,1-Dichloroethane	ND	ND		nc	20
75-35-4	1,1-Dichloroethylene	ND	ND		nc	20
106-93-4	1,2-Dibromoethane	ND	ND		nc	20
107-06-2	1,2-Dichloroethane	ND	ND		nc	20
78-87-5	1,2-Dichloropropane	ND	ND		nc	20
123-91-1	1,4-Dioxane	ND	ND		nc	20
75-71-8	Dichlorodifluoromethane	0.44	0.50		13	22
124-48-1	Dibromochloromethane	ND	ND		nc	20
156-60-5	trans-1,2-Dichloroethylene	ND	ND		nc	10
156-59-2	cis-1,2-Dichloroethylene	ND	ND		nc	10
10061-01-5	cis-1,3-Dichloropropene	ND	ND		nc	20
541-73-1	m-Dichlorobenzene	ND	ND		nc	20
95-50-1	o-Dichlorobenzene	ND	ND		nc	10
106-46-7	p-Dichlorobenzene	ND	ND		nc	20
10061-02-6	trans-1,3-Dichloropropene	ND	ND		nc	20
64-17-5	Ethanol	69.7	E 77.0	E	10	33
100-41-4	Ethylbenzene	ND	ND		nc	15
141-78-6	Ethyl Acetate	0.98	1.0		2	20
622-96-8	4-Ethyltoluene	ND	ND		nc	13

* = Outside of Control Limits.

5.3.2
 5

Duplicate Summary

Job Number: JC39442
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39106-4QDUP	5W23445.D	1	03/30/17	LM	n/a	n/a	V5W927
JC39106-4Q	5W23444.D	1	03/30/17	LM	n/a	n/a	V5W927

The QC reported here applies to the following samples:

Method: TO-15

JC39442-1, JC39442-2, JC39442-3

CAS No.	Compound	JC39106-4Q DUP		Q	RPD	Limits
		ppbv	Q ppbv			
76-13-1	Freon 113	ND	ND		nc	10
76-14-2	Freon 114	ND	ND		nc	20
142-82-5	Heptane	ND	ND		nc	20
87-68-3	Hexachlorobutadiene	ND	ND		nc	20
110-54-3	Hexane	ND	ND		nc	17
591-78-6	2-Hexanone	ND	ND		nc	20
67-63-0	Isopropyl Alcohol	14.5	15.8		9	26
75-09-2	Methylene chloride	0.22	0.23		4	26
78-93-3	Methyl ethyl ketone	0.27	0.29		7	21
108-10-1	Methyl Isobutyl Ketone	ND	ND		nc	20
1634-04-4	Methyl Tert Butyl Ether	ND	ND		nc	20
80-62-6	Methylmethacrylate	ND	ND		nc	20
115-07-1	Propylene	ND	ND		nc	16
100-42-5	Styrene	ND	ND		nc	11
71-55-6	1,1,1-Trichloroethane	ND	ND		nc	20
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND		nc	20
79-00-5	1,1,2-Trichloroethane	ND	ND		nc	20
120-82-1	1,2,4-Trichlorobenzene	ND	ND		nc	20
95-63-6	1,2,4-Trimethylbenzene	ND	ND		nc	19
108-67-8	1,3,5-Trimethylbenzene	ND	ND		nc	13
540-84-1	2,2,4-Trimethylpentane	ND	ND		nc	18
75-65-0	Tertiary Butyl Alcohol	ND	ND		nc	21
127-18-4	Tetrachloroethylene	ND	ND		nc	17
109-99-9	Tetrahydrofuran	ND	ND		nc	20
108-88-3	Toluene	0.30	0.34		13	20
79-01-6	Trichloroethylene	ND	ND		nc	13
75-69-4	Trichlorofluoromethane	0.22	0.23		4	21
75-01-4	Vinyl chloride	ND	ND		nc	20
108-05-4	Vinyl Acetate	0.24	0.26		8	20
	m,p-Xylene	ND	0.083	J	200* a	26
95-47-6	o-Xylene	ND	ND		nc	20
1330-20-7	Xylenes (total)	ND	0.083	J	200* a	26

* = Outside of Control Limits.

5.3.2
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Duplicate Summary

Job Number: JC39442
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39106-4QDUP	5W23445.D	1	03/30/17	LM	n/a	n/a	V5W927
JC39106-4Q	5W23444.D	1	03/30/17	LM	n/a	n/a	V5W927

The QC reported here applies to the following samples:

Method: TO-15

JC39442-1, JC39442-2, JC39442-3

CAS No.	Surrogate Recoveries	DUP	JC39106-4Q Limits
460-00-4	4-Bromofluorobenzene	98%	102% 65-128%

(a) High RPD due to low concentration of hit

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC39442
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39133-1DUP	3W59081.D	1	03/30/17	TCH	n/a	n/a	V3W2247
JC39133-1	3W59080.D	1	03/30/17	TCH	n/a	n/a	V3W2247

The QC reported here applies to the following samples: **Method:** TO-15

JC39442-4

CAS No.	Compound	JC39133-1 ppbv	DUP Q	ppbv	Q	RPD	Limits
67-64-1	Acetone	24.6		24.3		1	27
106-99-0	1,3-Butadiene	ND		ND		nc	20
71-43-2	Benzene	0.61		0.58		5	17
75-27-4	Bromodichloromethane	ND		ND		nc	20
75-25-2	Bromoform	ND		ND		nc	20
74-83-9	Bromomethane	ND		ND		nc	20
593-60-2	Bromoethene	ND		ND		nc	30
100-44-7	Benzyl Chloride	ND		ND		nc	20
75-15-0	Carbon disulfide	ND		ND		nc	11
108-90-7	Chlorobenzene	ND		ND		nc	20
75-00-3	Chloroethane	ND		ND		nc	20
67-66-3	Chloroform	0.18	J	0.17	J	6	12
74-87-3	Chloromethane	0.52		0.53		2	22
107-05-1	3-Chloropropene	ND		ND		nc	10
95-49-8	2-Chlorotoluene	ND		ND		nc	20
56-23-5	Carbon tetrachloride	ND		ND		nc	10
110-82-7	Cyclohexane	0.29		0.28		4	12
75-34-3	1,1-Dichloroethane	ND		ND		nc	20
75-35-4	1,1-Dichloroethylene	ND		ND		nc	20
106-93-4	1,2-Dibromoethane	ND		ND		nc	20
107-06-2	1,2-Dichloroethane	ND		ND		nc	20
78-87-5	1,2-Dichloropropane	ND		ND		nc	20
123-91-1	1,4-Dioxane	ND		ND		nc	20
75-71-8	Dichlorodifluoromethane	0.37		0.38		3	22
124-48-1	Dibromochloromethane	ND		ND		nc	20
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	10
156-59-2	cis-1,2-Dichloroethylene	0.17	J	0.16	J	6	10
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	20
541-73-1	m-Dichlorobenzene	ND		ND		nc	20
95-50-1	o-Dichlorobenzene	ND		ND		nc	10
106-46-7	p-Dichlorobenzene	ND		ND		nc	20
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	20
64-17-5	Ethanol	29.5		29.7		1	33
100-41-4	Ethylbenzene	0.29		0.27		7	15
141-78-6	Ethyl Acetate	1.7		1.7		0	20
622-96-8	4-Ethyltoluene	0.11	J	0.094	J	16* a	13

* = Outside of Control Limits.

5.3.3
5

Duplicate Summary

Job Number: JC39442
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39133-1DUP	3W59081.D	1	03/30/17	TCH	n/a	n/a	V3W2247
JC39133-1	3W59080.D	1	03/30/17	TCH	n/a	n/a	V3W2247

The QC reported here applies to the following samples: **Method:** TO-15

JC39442-4

CAS No.	Compound	JC39133-1 ppbv	DUP Q	DUP ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND		ND		nc	10
76-14-2	Freon 114	ND		ND		nc	20
142-82-5	Heptane	0.46		0.46		0	20
87-68-3	Hexachlorobutadiene	ND		ND		nc	20
110-54-3	Hexane	1.2		1.2		0	17
591-78-6	2-Hexanone	0.21		0.19	J	10	20
67-63-0	Isopropyl Alcohol	56.4	E	55.1	E	2	26
75-09-2	Methylene chloride	ND		ND		nc	26
78-93-3	Methyl ethyl ketone	0.99		1.0		1	21
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	20
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	20
80-62-6	Methylmethacrylate	ND		ND		nc	20
115-07-1	Propylene	ND		ND		nc	16
100-42-5	Styrene	ND		ND		nc	11
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	20
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	20
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	20
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	20
95-63-6	1,2,4-Trimethylbenzene	0.38		0.33		14	19
108-67-8	1,3,5-Trimethylbenzene	0.099	J	0.091	J	8	13
540-84-1	2,2,4-Trimethylpentane	0.22		0.21		5	18
75-65-0	Tertiary Butyl Alcohol	ND		ND		nc	21
127-18-4	Tetrachloroethylene	ND		ND		nc	17
109-99-9	Tetrahydrofuran	ND		ND		nc	20
108-88-3	Toluene	2.2		2.1		5	20
79-01-6	Trichloroethylene	0.054		0.051		6	13
75-69-4	Trichlorofluoromethane	0.23		0.24		4	21
75-01-4	Vinyl chloride	ND		ND		nc	20
108-05-4	Vinyl Acetate	ND		ND		nc	20
	m,p-Xylene	1.1		1.0		10	26
95-47-6	o-Xylene	0.41		0.38		8	20
1330-20-7	Xylenes (total)	1.5		1.4		7	26

* = Outside of Control Limits.

5.3.3
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Duplicate Summary

Job Number: JC39442
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39133-1DUP	3W59081.D	1	03/30/17	TCH	n/a	n/a	V3W2247
JC39133-1	3W59080.D	1	03/30/17	TCH	n/a	n/a	V3W2247

The QC reported here applies to the following samples:

Method: TO-15

JC39442-4

CAS No.	Surrogate Recoveries	DUP	JC39133-1	Limits
460-00-4	4-Bromofluorobenzene	98%	96%	65-128%

(a) Outside in house control limits.

* = Outside of Control Limits.

Summa Cleaning Certification

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2204-SCC	3W58103.D	1	01/25/17	TCH	n/a	n/a	V3W2204

The QC reported here (Summa A518) applies to the following samples:

Method: TO-15

Batch CP8960 cleaned 01/17/17: JC39442-3(M430)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
64-17-5	Ethanol	ND	0.50	0.075	ppbv		ND	0.94	ug/m3
108-88-3	Toluene	ND	0.20	0.012	ppbv		ND	0.75	ug/m3

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	87% 65-128%

Summa Cleaning Certification

Job Number: JC39442
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2236-SCC	3W58825.D	1	03/16/17	TCH	n/a	n/a	V3W2236

The QC reported here (Summa A1156) applies to the following samples: Method: TO-15

Batch CP9064 cleaned 03/15/17: JC39442-1(A1254), JC39442-2(A1228), JC39442-3(A1212), JC39442-4(A1219)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone	ND	0.20	0.036	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.028	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.031	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.039	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.016	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.018	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.018	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.027	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.031	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.056	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.036	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.017	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.052	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.027	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.017	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.031	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.016	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.015	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane	ND	0.20	0.042	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.018	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.022	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.045	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.019	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.053	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.021	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.015	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.020	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.016	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.027	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.018	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.075	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.042	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.075	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.017	ppbv		ND	0.98	ug/m3

5.4.2
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Summa Cleaning Certification

Job Number: JC39442
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2236-SCC	3W58825.D	1	03/16/17	TCH	n/a	n/a	V3W2236

The QC reported here (Summa A1156) applies to the following samples: Method: TO-15

Batch CP9064 cleaned 03/15/17: JC39442-1(A1254), JC39442-2(A1228), JC39442-3(A1212), JC39442-4(A1219)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.021	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.031	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.020	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.020	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.023	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.045	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.16	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.025	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.048	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.055	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.020	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.040	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.032	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.015	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.024	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.016	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.039	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.056	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.015	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.045	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.023	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.053	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.023	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.045	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.012	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.022	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.021	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.054	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.068	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.051	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.051	ppbv		ND	0.87	ug/m3

5.4.2
5

Summa Cleaning Certification

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3W2236-SCC	3W58825.D	1	03/16/17	TCH	n/a	n/a	V3W2236

The QC reported here (Summa A1156) applies to the following samples: Method: TO-15

Batch CP9064 cleaned 03/15/17: JC39442-1(A1254), JC39442-2(A1228), JC39442-3(A1212), JC39442-4(A1219)

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	86% 65-128%

5.4.2
5

Instrument Performance Check (BFB)

Job Number: JC39442
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: V3W2200-BFB	Injection Date: 01/18/17
Lab File ID: 3W57980.D	Injection Time: 13:07
Instrument ID: GCMS3W	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	20866	16.7	Pass
75	30.0 - 66.0% of mass 95	56037	44.8	Pass
95	Base peak, 100% relative abundance	124981	100.0	Pass
96	5.0 - 9.0% of mass 95	8175	6.54	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	110634	88.5	Pass
175	4.0 - 9.01% of mass 174	8418	6.74 (7.61) ^a	Pass
176	93.0 - 101.0% of mass 174	107605	86.1 (97.3) ^a	Pass
177	5.0 - 9.0% of mass 176	7014	5.61 (6.52) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W2200-IC2200	3W57981.D	01/18/17	13:47	00:40	Initial cal 0.04
V3W2200-IC2200	3W57982.D	01/18/17	14:26	01:19	Initial cal 0.1
V3W2200-IC2200	3W57983.D	01/18/17	15:05	01:58	Initial cal 0.2
V3W2200-IC2200	3W57984.D	01/18/17	15:45	02:38	Initial cal 0.5
V3W2200-IC2200	3W57985.D	01/18/17	16:25	03:18	Initial cal 5
V3W2200-ICC2200	3W57986.D	01/18/17	17:05	03:58	Initial cal 10
V3W2200-IC2200	3W57987.D	01/18/17	17:46	04:39	Initial cal 20
V3W2200-IC2200	3W57989.D	01/18/17	19:08	06:01	Initial cal 40
V3W2200-ICV2200	3W57991.D	01/18/17	20:27	07:20	Initial cal verification 10

5.5.1
5

Instrument Performance Check (BFB)

Job Number: JC39442
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: V3W2204-BFB	Injection Date: 01/24/17
Lab File ID: 3W58083.D	Injection Time: 11:44
Instrument ID: GCMS3W	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	22058	17.6	Pass
75	30.0 - 66.0% of mass 95	57802	46.2	Pass
95	Base peak, 100% relative abundance	125157	100.0	Pass
96	5.0 - 9.0% of mass 95	8350	6.67	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	110354	88.2	Pass
175	4.0 - 9.01% of mass 174	8863	7.08 (8.03) ^a	Pass
176	93.0 - 101.0% of mass 174	107626	86.0 (97.5) ^a	Pass
177	5.0 - 9.0% of mass 176	7258	5.80 (6.74) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W2204-CC2200	3W58083.D	01/24/17	11:44	00:00	Continuing cal 10
V3W2204-BS	3W58084.D	01/24/17	12:25	00:41	Blank Spike
V3W2204-BSD	3W58085.D	01/24/17	13:03	01:19	Blank Spike Duplicate
V3W2204-MB	3W58087.D	01/24/17	15:16	03:32	Method Blank
V3W2204-SCC	3W58088.D	01/24/17	16:00	04:16	Summa Cleaning Certification
V3W2204-SCC	3W58089.D	01/24/17	16:42	04:58	Summa Cleaning Certification
ZZZZZZ	3W58092.D	01/24/17	19:07	07:23	(unrelated sample)
ZZZZZZ	3W58093.D	01/24/17	19:48	08:04	(unrelated sample)
ZZZZZZ	3W58094.D	01/24/17	20:25	08:41	(unrelated sample)
ZZZZZZ	3W58095.D	01/24/17	21:06	09:22	(unrelated sample)
V3W2204-SCC	3W58096.D	01/24/17	21:47	10:03	Summa Cleaning Certification
V3W2204-SCC	3W58097.D	01/24/17	22:28	10:44	Summa Cleaning Certification
ZZZZZZ	3W58099.D	01/24/17	23:48	12:04	(unrelated sample)
ZZZZZZ	3W58100.D	01/25/17	00:28	12:44	(unrelated sample)
ZZZZZZ	3W58101.D	01/25/17	01:08	13:24	(unrelated sample)
V3W2204-SCC	3W58102.D	01/25/17	01:50	14:06	Summa Cleaning Certification
V3W2204-SCC	3W58103.D	01/25/17	02:30	14:46	Summa Cleaning Certification
JC35766-5	3W58105.D	01/25/17	03:54	16:10	(used for QC only; not part of job JC39442)
JC35766-5DUP	3W58106.D	01/25/17	04:36	16:52	Duplicate

5.5.2
 5

Instrument Performance Check (BFB)

Job Number: JC39442
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: V3W2226-BFB	Injection Date: 03/01/17
Lab File ID: 3W58554.D	Injection Time: 12:27
Instrument ID: GCMS3W	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	30840	14.3	Pass
75	30.0 - 66.0% of mass 95	91546	42.4	Pass
95	Base peak, 100% relative abundance	215765	100.0	Pass
96	5.0 - 9.0% of mass 95	14656	6.79	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	205802	95.4	Pass
175	4.0 - 9.01% of mass 174	15981	7.41 (7.77) ^a	Pass
176	93.0 - 101.0% of mass 174	201024	93.2 (97.7) ^a	Pass
177	5.0 - 9.0% of mass 176	13636	6.32 (6.78) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W2226-IC2226	3W58555.D	03/01/17	13:05	00:38	Initial cal 0.04
V3W2226-IC2226	3W58556.D	03/01/17	13:45	01:18	Initial cal 0.1
V3W2226-IC2226	3W58557.D	03/01/17	14:23	01:56	Initial cal 0.2
V3W2226-IC2226	3W58558.D	03/01/17	15:03	02:36	Initial cal 0.5
V3W2226-IC2226	3W58559.D	03/01/17	15:43	03:16	Initial cal 5
V3W2226-ICC2226	3W58560.D	03/01/17	16:23	03:56	Initial cal 10
V3W2226-IC2226	3W58561.D	03/01/17	17:04	04:37	Initial cal 20
V3W2226-IC2226	3W58563.D	03/01/17	18:26	05:59	Initial cal 40
V3W2226-ICV2226	3W58565.D	03/01/17	19:44	07:17	Initial cal verification 10

5.5.3
5

Instrument Performance Check (BFB)

Job Number: JC39442
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: V3W2236-BFB	Injection Date: 03/16/17
Lab File ID: 3W58817.D	Injection Time: 08:41
Instrument ID: GCMS3W	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	26314	14.4	Pass
75	30.0 - 66.0% of mass 95	76312	41.9	Pass
95	Base peak, 100% relative abundance	182144	100.0	Pass
96	5.0 - 9.0% of mass 95	12255	6.73	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	196245	107.7	Pass
175	4.0 - 9.01% of mass 174	15150	8.32 (7.72) ^a	Pass
176	93.0 - 101.0% of mass 174	191402	105.1 (97.5) ^a	Pass
177	5.0 - 9.0% of mass 176	12729	6.99 (6.65) ^b	Pass

(a) Value is % of mass 174
 (b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W2236-CC2226	3W58818.D	03/16/17	09:21	00:40	Continuing cal 10
V3W2236-BS	3W58819.D	03/16/17	10:03	01:22	Blank Spike
V3W2236-BSD	3W58820.D	03/16/17	10:45	02:04	Blank Spike Duplicate
V3W2236-MB	3W58822.D	03/16/17	12:08	03:27	Method Blank
V3W2236-SCC	3W58822A.D	03/16/17	12:08	03:27	Summa Cleaning Certification
ZZZZZZ	3W58823.D	03/16/17	12:55	04:14	(unrelated sample)
ZZZZZZ	3W58824.D	03/16/17	13:36	04:55	(unrelated sample)
V3W2236-SCC	3W58825.D	03/16/17	14:18	05:37	Summa Cleaning Certification
JC38460-1	3W58826.D	03/16/17	14:57	06:16	(used for QC only; not part of job JC39442)
JC38460-1DUP	3W58827.D	03/16/17	15:35	06:54	Duplicate
V3W2236-SCC	3W58828.D	03/16/17	16:17	07:36	Summa Cleaning Certification
ZZZZZZ	3W58829.D	03/16/17	16:58	08:17	(unrelated sample)
ZZZZZZ	3W58830.D	03/16/17	17:38	08:57	(unrelated sample)
ZZZZZZ	3W58831.D	03/16/17	18:21	09:40	(unrelated sample)
ZZZZZZ	3W58832.D	03/16/17	19:00	10:19	(unrelated sample)
ZZZZZZ	3W58833.D	03/16/17	19:39	10:58	(unrelated sample)
V3W2236-SCC	3W58834.D	03/16/17	20:20	11:39	Summa Cleaning Certification
ZZZZZZ	3W58835.D	03/16/17	21:00	12:19	(unrelated sample)
ZZZZZZ	3W58836.D	03/16/17	21:39	12:58	(unrelated sample)
ZZZZZZ	3W58837.D	03/16/17	22:18	13:37	(unrelated sample)
ZZZZZZ	3W58838.D	03/16/17	22:59	14:18	(unrelated sample)
ZZZZZZ	3W58839.D	03/16/17	23:37	14:56	(unrelated sample)
V3W2236-SCC	3W58840.D	03/17/17	00:18	15:37	Summa Cleaning Certification
ZZZZZZ	3W58841.D	03/17/17	00:58	16:17	(unrelated sample)

5.5.4
5

Instrument Performance Check (BFB)

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: V3W2236-BFB

Injection Date: 03/16/17

Lab File ID: 3W58817.D

Injection Time: 08:41

Instrument ID: GCMS3W

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3W58842.D	03/17/17	01:36	16:55	(unrelated sample)
ZZZZZZ	3W58844.D	03/17/17	02:52	18:11	(unrelated sample)
ZZZZZZ	3W58846.D	03/17/17	04:10	19:29	(unrelated sample)

5.5.4
5

Instrument Performance Check (BFB)

Job Number: JC39442
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: V3W2246-BFB	Injection Date: 03/29/17
Lab File ID: 3W59049.D	Injection Time: 11:16
Instrument ID: GCMS3W	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	17594	12.8	Pass
75	30.0 - 66.0% of mass 95	55186	40.1	Pass
95	Base peak, 100% relative abundance	137576	100.0	Pass
96	5.0 - 9.0% of mass 95	9301	6.76	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	147133	106.9	Pass
175	4.0 - 9.01% of mass 174	11331	8.24 (7.70) ^a	Pass
176	93.0 - 101.0% of mass 174	144165	104.8 (98.0) ^a	Pass
177	5.0 - 9.0% of mass 176	9360	6.80 (6.49) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W2246-IC2246	3W59050.D	03/29/17	12:06	00:50	Initial cal 0.5
V3W2246-IC2246	3W59051.D	03/29/17	12:46	01:30	Initial cal 0.2
V3W2246-IC2246	3W59052.D	03/29/17	13:24	02:08	Initial cal 0.1
V3W2246-IC2246	3W59053.D	03/29/17	14:02	02:46	Initial cal 0.04
V3W2246-IC2246	3W59054.D	03/29/17	14:41	03:25	Initial cal 5
V3W2246-ICC2246	3W59055.D	03/29/17	15:21	04:05	Initial cal 10
V3W2246-IC2246	3W59056.D	03/29/17	16:01	04:45	Initial cal 20
V3W2246-IC2246	3W59058.D	03/29/17	17:24	06:08	Initial cal 40
V3W2246-ICV2246	3W59061.D	03/29/17	19:28	08:12	Initial cal verification 10

5.5.5
5

Instrument Performance Check (BFB)

Job Number: JC39442
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: V3W2247-BFB	Injection Date: 03/30/17
Lab File ID: 3W59062.D	Injection Time: 09:09
Instrument ID: GCMS3W	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	15909	12.7	Pass
75	30.0 - 66.0% of mass 95	49504	39.5	Pass
95	Base peak, 100% relative abundance	125248	100.0	Pass
96	5.0 - 9.0% of mass 95	8088	6.46	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	138021	110.2	Pass
175	4.0 - 9.01% of mass 174	10661	8.51 (7.72) ^a	Pass
176	93.0 - 101.0% of mass 174	133685	106.7 (96.9) ^a	Pass
177	5.0 - 9.0% of mass 176	8657	6.91 (6.48) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V3W2247-CC2246	3W59063.D	03/30/17	09:49	00:40	Continuing cal 10
V3W2247-BS	3W59064.D	03/30/17	10:43	01:34	Blank Spike
V3W2247-BSD	3W59065.D	03/30/17	11:24	02:15	Blank Spike Duplicate
V3W2247-MB	3W59067.D	03/30/17	12:50	03:41	Method Blank
V3W2247-SCC	3W59067A.D	03/30/17	12:50	03:41	Summa Cleaning Certification
V3W2247-SCC	3W59069.D	03/30/17	14:46	05:37	Summa Cleaning Certification
JC39442-4	3W59071.D	03/30/17	16:05	06:56	SV-4
ZZZZZZ	3W59072.D	03/30/17	16:45	07:36	(unrelated sample)
ZZZZZZ	3W59073.D	03/30/17	17:32	08:23	(unrelated sample)
ZZZZZZ	3W59074.D	03/30/17	18:18	09:09	(unrelated sample)
ZZZZZZ	3W59075.D	03/30/17	18:57	09:48	(unrelated sample)
ZZZZZZ	3W59076.D	03/30/17	19:36	10:27	(unrelated sample)
ZZZZZZ	3W59077.D	03/30/17	20:14	11:05	(unrelated sample)
ZZZZZZ	3W59078.D	03/30/17	20:53	11:44	(unrelated sample)
ZZZZZZ	3W59079.D	03/30/17	21:33	12:24	(unrelated sample)
JC39133-1	3W59080.D	03/30/17	22:14	13:05	(used for QC only; not part of job JC39442)
JC39133-1DUP	3W59081.D	03/30/17	22:54	13:45	Duplicate
ZZZZZZ	3W59082.D	03/30/17	23:37	14:28	(unrelated sample)
ZZZZZZ	3W59083.D	03/31/17	00:17	15:08	(unrelated sample)
V3W2247-SCC	3W59084.D	03/31/17	00:58	15:49	Summa Cleaning Certification

5.5.6
 5

Instrument Performance Check (BFB)

Job Number: JC39442
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: V5W881-BFB	Injection Date: 01/12/17
Lab File ID: 5W22153.D	Injection Time: 10:15
Instrument ID: GCMS5W	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	29930	15.2	Pass
75	30.0 - 66.0% of mass 95	83434	42.3	Pass
95	Base peak, 100% relative abundance	197205	100.0	Pass
96	5.0 - 9.0% of mass 95	13105	6.65	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	172928	87.7	Pass
175	4.0 - 9.01% of mass 174	12925	6.55 (7.47) ^a	Pass
176	93.0 - 101.0% of mass 174	166741	84.6 (96.4) ^a	Pass
177	5.0 - 9.0% of mass 176	11198	5.68 (6.72) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	5W22154A.D	01/12/17	10:56	00:41	(unrelated sample)
V5W881-IC881	5W22154.D	01/12/17	10:56	00:41	Initial cal 0.04
ZZZZZZ	5W22155A.D	01/12/17	11:38	01:23	(unrelated sample)
V5W881-IC881	5W22155.D	01/12/17	11:38	01:23	Initial cal 0.1
ZZZZZZ	5W22156A.D	01/12/17	12:19	02:04	(unrelated sample)
V5W881-IC881	5W22156.D	01/12/17	12:19	02:04	Initial cal 0.2
V5W881-IC881	5W22157.D	01/12/17	13:02	02:47	Initial cal 0.5
V5W881-IC881	5W22158.D	01/12/17	13:43	03:28	Initial cal 5
V5W881-ICC881	5W22159.D	01/12/17	14:26	04:11	Initial cal 10
V5W881-IC881	5W22160.D	01/12/17	15:11	04:56	Initial cal 20
V5W881-IC881	5W22161.D	01/12/17	15:56	05:41	Initial cal 40
V5W881-ICV881	5W22163.D	01/12/17	17:23	07:08	Initial cal verification 10
V5W882-BS	5W22163A.D	01/12/17	17:23	07:08	Blank Spike
V5W882-BSD	5W22164.D	01/12/17	18:04	07:49	Blank Spike Duplicate
V5W882-MB	5W22166.D	01/12/17	19:35	09:20	Method Blank
ZZZZZZ	5W22167.D	01/12/17	20:17	10:02	(unrelated sample)
ZZZZZZ	5W22168.D	01/12/17	20:59	10:44	(unrelated sample)
ZZZZZZ	5W22169.D	01/12/17	21:40	11:25	(unrelated sample)
ZZZZZZ	5W22170.D	01/12/17	22:21	12:06	(unrelated sample)
ZZZZZZ	5W22171.D	01/12/17	23:02	12:47	(unrelated sample)
ZZZZZZ	5W22172.D	01/12/17	23:44	13:29	(unrelated sample)
ZZZZZZ	5W22173.D	01/13/17	00:26	14:11	(unrelated sample)
ZZZZZZ	5W22174.D	01/13/17	01:09	14:54	(unrelated sample)
ZZZZZZ	5W22175.D	01/13/17	01:51	15:36	(unrelated sample)

5.5.7
5

Instrument Performance Check (BFB)

Job Number: JC39442
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: V5W881-BFB	Injection Date: 01/12/17
Lab File ID: 5W22153.D	Injection Time: 10:15
Instrument ID: GCMS5W	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	5W22176.D	01/13/17	02:34	16:19	(unrelated sample)
ZZZZZZ	5W22177.D	01/13/17	03:15	17:00	(unrelated sample)
ZZZZZZ	5W22178.D	01/13/17	03:57	17:42	(unrelated sample)
ZZZZZZ	5W22179.D	01/13/17	04:39	18:24	(unrelated sample)
ZZZZZZ	5W22180.D	01/13/17	05:21	19:06	(unrelated sample)

5.5.7
5

Instrument Performance Check (BFB)

Job Number: JC39442
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: V5W926-BFB	Injection Date: 03/29/17
Lab File ID: 5W23403.D	Injection Time: 08:37
Instrument ID: GCMS5W	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	28133	16.8	Pass
75	30.0 - 66.0% of mass 95	75584	45.1	Pass
95	Base peak, 100% relative abundance	167765	100.0	Pass
96	5.0 - 9.0% of mass 95	11002	6.56	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	148075	88.3	Pass
175	4.0 - 9.0% of mass 174	10859	6.47 (7.33) ^a	Pass
176	93.0 - 101.0% of mass 174	143403	85.5 (96.8) ^a	Pass
177	5.0 - 9.0% of mass 176	9328	5.56 (6.50) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W926-CC881	5W23404.D	03/29/17	09:23	00:46	Continuing cal 10
V5W926-BS	5W23405.D	03/29/17	10:37	02:00	Blank Spike
V5W926-BSD	5W23406.D	03/29/17	11:27	02:50	Blank Spike Duplicate
V5W926-SCC	5W23408A.D	03/29/17	13:19	04:42	Summa Cleaning Certification
V5W926-MB	5W23408.D	03/29/17	13:19	04:42	Method Blank
ZZZZZZ	5W23409.D	03/29/17	14:10	05:33	(unrelated sample)
ZZZZZZ	5W23410.D	03/29/17	14:58	06:21	(unrelated sample)
ZZZZZZ	5W23411.D	03/29/17	15:45	07:08	(unrelated sample)
ZZZZZZ	5W23412.D	03/29/17	16:30	07:53	(unrelated sample)
ZZZZZZ	5W23413.D	03/29/17	17:23	08:46	(unrelated sample)
ZZZZZZ	5W23414.D	03/29/17	18:11	09:34	(unrelated sample)
ZZZZZZ	5W23415.D	03/29/17	18:56	10:19	(unrelated sample)
JC39045-3	5W23416.D	03/29/17	19:41	11:04	(used for QC only; not part of job JC39442)
JC39045-3DUP	5W23417.D	03/29/17	20:25	11:48	Duplicate
ZZZZZZ	5W23418.D	03/29/17	21:11	12:34	(unrelated sample)
ZZZZZZ	5W23419.D	03/29/17	21:56	13:19	(unrelated sample)
JC39442-3	5W23423.D	03/30/17	01:09	16:32	SV-3
ZZZZZZ	5W23429.D	03/30/17	06:03	21:26	(unrelated sample)
ZZZZZZ	5W23430.D	03/30/17	07:03	22:26	(unrelated sample)

5.5.8
5

Instrument Performance Check (BFB)

Job Number: JC39442
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: V5W927-BFB	Injection Date: 03/30/17
Lab File ID: 5W23431.D	Injection Time: 08:57
Instrument ID: GCMS5W	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	25224	17.1	Pass
75	30.0 - 66.0% of mass 95	66792	45.2	Pass
95	Base peak, 100% relative abundance	147627	100.0	Pass
96	5.0 - 9.0% of mass 95	9580	6.49	Pass
173	Less than 2.0% of mass 174	362	0.25 (0.28) ^a	Pass
174	50.0 - 120.0% of mass 95	127995	86.7	Pass
175	4.0 - 9.0% of mass 174	9520	6.45 (7.44) ^a	Pass
176	93.0 - 101.0% of mass 174	124448	84.3 (97.2) ^a	Pass
177	5.0 - 9.0% of mass 176	8444	5.72 (6.79) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W927-CC881	5W23432.D	03/30/17	09:41	00:44	Continuing cal 10
V5W927-BS	5W23433.D	03/30/17	10:27	01:30	Blank Spike
V5W927-BSD	5W23434.D	03/30/17	11:13	02:16	Blank Spike Duplicate
V5W927-SCC	5W23437A.D	03/30/17	13:46	04:49	Summa Cleaning Certification
V5W927-MB	5W23437.D	03/30/17	13:46	04:49	Method Blank
ZZZZZZ	5W23438.D	03/30/17	14:31	05:34	(unrelated sample)
JC39442-1	5W23439.D	03/30/17	15:15	06:18	SV-1
JC39442-2	5W23440.D	03/30/17	16:00	07:03	SV-2
JC39442-3	5W23441.D	03/30/17	16:45	07:48	SV-3
ZZZZZZ	5W23442.D	03/30/17	17:35	08:38	(unrelated sample)
ZZZZZZ	5W23443.D	03/30/17	18:27	09:30	(unrelated sample)
JC39106-4Q	5W23444.D	03/30/17	19:16	10:19	(used for QC only; not part of job JC39442)
JC39106-4QDUP	5W23445.D	03/30/17	20:14	11:17	Duplicate
ZZZZZZ	5W23446.D	03/30/17	21:07	12:10	(unrelated sample)
ZZZZZZ	5W23447.D	03/30/17	22:06	13:09	(unrelated sample)
ZZZZZZ	5W23448.D	03/30/17	22:51	13:54	(unrelated sample)
V5W927-CC881	5W23449.D	03/30/17	23:37	14:40	Continuing cal 10
V5W927-SCC	5W23451.D	03/31/17	01:20	16:23	Summa Cleaning Certification
V5W927-SCC	5W23455.D	03/31/17	04:32	19:35	Summa Cleaning Certification
ZZZZZZ	5W23456.D	03/31/17	05:18	20:21	(unrelated sample)
ZZZZZZ	5W23457.D	03/31/17	06:03	21:06	(unrelated sample)
ZZZZZZ	5W23458.D	03/31/17	06:52	21:55	(unrelated sample)

5.5.9
5

Volatile Surrogate Recovery Summary

Job Number: JC39442

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Method: TO-15

Matrix: AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JC39442-1	5W23439.D	96
JC39442-2	5W23440.D	99
JC39442-3	5W23423.D	96
JC39442-3	5W23441.D	96
JC39442-4	3W59071.D	108
JC39045-3DUP	5W23417.D	99
JC39106-4QDUP	5W23445.D	98
JC39133-1DUP	3W59081.D	98
V3W2204-SCC	3W58103.D	87
V3W2236-SCC	3W58825.D	86
V3W2247-BS	3W59064.D	102
V3W2247-BSD	3W59065.D	101
V3W2247-MB	3W59067.D	85
V5W926-BS	5W23405.D	96
V5W926-BSD	5W23406.D	94
V5W926-MB	5W23408.D	95
V5W927-BS	5W23433.D	93
V5W927-BSD	5W23434.D	97
V5W927-MB	5W23437.D	93
V3W2204-BS	3W58084.D	97
V3W2204-BSD	3W58085.D	97
V3W2204-MB	3W58087.D	80
V3W2236-BS	3W58819.D	106
V3W2236-BSD	3W58820.D	105
V3W2236-MB	3W58822.D	87

Surrogate Compounds	Recovery Limits
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S1 = 4-Bromofluorobenzene	65-128%
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5.6.1

5

Technical Report for

EBI Consulting

1217000088, 159-161 Alexander Street, Yonkers, NY

SGS Accutest Job Number: JC39407

Sampling Date: 03/21/17

Report to:

EBI Consulting
21 B Street
Burlington, MA 01803
Bshaw@ebiconsulting.com

ATTN: Bryan Shaw

Total number of pages in report: **121**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Nancy Cole
Laboratory Director

Client Service contact: Victoria Pushkova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (L-A-B L2248)

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Test results relate only to samples analyzed.



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Sample Summary

EBI Consulting

Job No: JC39407

1217000088, 159-161 Alexander Street, Yonkers, NY

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JC39407-1	03/21/17	20:10 BS	03/22/17	SO	Soil	SB-10 (0-2)
JC39407-2	03/21/17	20:20 BS	03/22/17	SO	Soil	SB-11 (0-2)
JC39407-3	03/21/17	20:30 BS	03/22/17	SO	Soil	SB-12 (0-2)
JC39407-4	03/21/17	20:40 BS	03/22/17	SO	Soil	SB-13 (2-4)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: JC39407
Account: EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY
Collected: 03/21/17

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
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JC39407-1 SB-10 (0-2)

Acetone ^a	5.2 J	8.4	4.2	ug/kg	SW846 8260C
Methylene chloride ^a	0.94 J	4.2	0.84	ug/kg	SW846 8260C
Acenaphthene	18.5 J	36	12	ug/kg	SW846 8270D
Acenaphthylene	26.4 J	36	18	ug/kg	SW846 8270D
Acetophenone	24.6 J	180	7.7	ug/kg	SW846 8270D
Anthracene	72.7	36	22	ug/kg	SW846 8270D
Atrazine	23.0 J	72	15	ug/kg	SW846 8270D
Benzo(a)anthracene	276	36	10	ug/kg	SW846 8270D
Benzo(a)pyrene	302	36	16	ug/kg	SW846 8270D
Benzo(b)fluoranthene	386	36	16	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	266	36	18	ug/kg	SW846 8270D
Benzo(k)fluoranthene	140	36	17	ug/kg	SW846 8270D
1,1'-Biphenyl	23.5 J	72	4.9	ug/kg	SW846 8270D
Benzaldehyde	30.1 J	180	8.9	ug/kg	SW846 8270D
Carbazole	28.0 J	72	5.2	ug/kg	SW846 8270D
Caprolactam	18.5 J	72	14	ug/kg	SW846 8270D
Chrysene	312	36	11	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	65.3	36	16	ug/kg	SW846 8270D
Dibenzofuran	17.8 J	72	15	ug/kg	SW846 8270D
Fluoranthene	424	36	16	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	250	36	17	ug/kg	SW846 8270D
2-Methylnaphthalene	22.2 J	72	8.1	ug/kg	SW846 8270D
Naphthalene	21.6 J	36	10	ug/kg	SW846 8270D
Phenanthrene	236	36	12	ug/kg	SW846 8270D
Pyrene	430	36	11	ug/kg	SW846 8270D
Aroclor 1260	51.3	35	15	ug/kg	SW846 8082A
Arsenic	4.9	2.1		mg/kg	SW846 6010C
Beryllium	0.38	0.21		mg/kg	SW846 6010C
Chromium	24.6	1.1		mg/kg	SW846 6010C
Copper	31.2	2.6		mg/kg	SW846 6010C
Lead	100	2.1		mg/kg	SW846 6010C
Mercury	0.13	0.033		mg/kg	SW846 7471B
Nickel	19.1	4.2		mg/kg	SW846 6010C
Zinc	88.4	5.3		mg/kg	SW846 6010C

JC39407-2 SB-11 (0-2)

Acetone ^a	7.3 J	11	5.6	ug/kg	SW846 8260C
Chloroform ^a	0.31 J	2.2	0.27	ug/kg	SW846 8260C
Tetrachloroethene ^a	5.2	2.2	0.32	ug/kg	SW846 8260C
Trichloroethene ^a	1.5	1.1	0.21	ug/kg	SW846 8260C
Acenaphthene	110	37	13	ug/kg	SW846 8270D
Acenaphthylene	849	37	19	ug/kg	SW846 8270D

Summary of Hits

Job Number: JC39407
Account: EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY
Collected: 03/21/17

2

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Anthracene		1000	37	23	ug/kg	SW846 8270D
Benzo(a)anthracene		2390	37	11	ug/kg	SW846 8270D
Benzo(a)pyrene		4450	190	85	ug/kg	SW846 8270D
Benzo(b)fluoranthene		5690	190	83	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		3060	37	19	ug/kg	SW846 8270D
Benzo(k)fluoranthene		1620	37	18	ug/kg	SW846 8270D
1,1'-Biphenyl		27.5 J	75	5.1	ug/kg	SW846 8270D
Benzaldehyde		66.0 J	190	9.3	ug/kg	SW846 8270D
Carbazole		105	75	5.4	ug/kg	SW846 8270D
Chrysene		3390	190	59	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		1030	37	17	ug/kg	SW846 8270D
Dibenzofuran		78.6	75	15	ug/kg	SW846 8270D
Di-n-butyl phthalate		94.5	75	6.1	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		437	75	8.8	ug/kg	SW846 8270D
Fluoranthene		1670	37	17	ug/kg	SW846 8270D
Fluorene		88.0	37	17	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		2900	37	18	ug/kg	SW846 8270D
2-Methylnaphthalene		78.1	75	8.5	ug/kg	SW846 8270D
Naphthalene		121	37	11	ug/kg	SW846 8270D
Phenanthrene		605	37	13	ug/kg	SW846 8270D
Pyrene		4460	190	60	ug/kg	SW846 8270D
Aroclor 1254 ^b		247	35	17	ug/kg	SW846 8082A
Aroclor 1262 ^b		342	35	23	ug/kg	SW846 8082A
Arsenic		4.7	2.2		mg/kg	SW846 6010C
Beryllium		0.37	0.22		mg/kg	SW846 6010C
Chromium		34.7	1.1		mg/kg	SW846 6010C
Copper		76.3	2.7		mg/kg	SW846 6010C
Lead		130	2.2		mg/kg	SW846 6010C
Mercury		0.15	0.035		mg/kg	SW846 7471B
Nickel		30.3	4.4		mg/kg	SW846 6010C
Zinc		132	5.5		mg/kg	SW846 6010C

JC39407-3 SB-12 (0-2)

Acetone ^a		5.2 J	9.7	4.9	ug/kg	SW846 8260C
Tetrachloroethene ^a		0.37 J	1.9	0.27	ug/kg	SW846 8260C
Acenaphthene		276	36	12	ug/kg	SW846 8270D
Acenaphthylene		29.8 J	36	18	ug/kg	SW846 8270D
Anthracene		543	36	22	ug/kg	SW846 8270D
Benzo(a)anthracene		1460	36	10	ug/kg	SW846 8270D
Benzo(a)pyrene		1230	36	16	ug/kg	SW846 8270D
Benzo(b)fluoranthene		1360	36	16	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		737	36	18	ug/kg	SW846 8270D
Benzo(k)fluoranthene		584	36	17	ug/kg	SW846 8270D
1,1'-Biphenyl		34.9 J	71	4.9	ug/kg	SW846 8270D

Summary of Hits

Job Number: JC39407
Account: EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY
Collected: 03/21/17

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Carbazole		267	71	5.2	ug/kg	SW846 8270D
Chrysene		1370	36	11	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		223	36	16	ug/kg	SW846 8270D
Dibenzofuran		119	71	14	ug/kg	SW846 8270D
Fluoranthene		3020	36	16	ug/kg	SW846 8270D
Fluorene		184	36	16	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		707	36	17	ug/kg	SW846 8270D
2-Methylnaphthalene		172	71	8.0	ug/kg	SW846 8270D
Naphthalene		126	36	10	ug/kg	SW846 8270D
Phenanthrene		2200	36	12	ug/kg	SW846 8270D
Pyrene		2610	36	11	ug/kg	SW846 8270D
Aroclor 1260 ^b		147	32	14	ug/kg	SW846 8082A
Arsenic		6.6	2.1		mg/kg	SW846 6010C
Beryllium		0.35	0.21		mg/kg	SW846 6010C
Cadmium		0.95	0.54		mg/kg	SW846 6010C
Chromium		26.0	1.1		mg/kg	SW846 6010C
Copper		86.9	2.7		mg/kg	SW846 6010C
Lead		394	2.1		mg/kg	SW846 6010C
Mercury		0.27	0.032		mg/kg	SW846 7471B
Nickel		21.4	4.3		mg/kg	SW846 6010C
Zinc		333	5.4		mg/kg	SW846 6010C

JC39407-4 SB-13 (2-4)

Acetone ^a		37.9	10	5.2	ug/kg	SW846 8260C
Benzene ^a		0.34 J	0.52	0.12	ug/kg	SW846 8260C
cis-1,2-Dichloroethene ^a		1.0	1.0	0.45	ug/kg	SW846 8260C
Tetrachloroethene ^a		0.70 J	2.1	0.29	ug/kg	SW846 8260C
Trichloroethene ^a		0.42 J	1.0	0.20	ug/kg	SW846 8260C
3&4-Methylphenol		236	81	33	ug/kg	SW846 8270D
Phenol		158	81	21	ug/kg	SW846 8270D
Acenaphthene		54.6	40	14	ug/kg	SW846 8270D
Acenaphthylene		435	40	21	ug/kg	SW846 8270D
Acetophenone		219	200	8.7	ug/kg	SW846 8270D
Anthracene		313	40	25	ug/kg	SW846 8270D
Benzo(a)anthracene		859	40	11	ug/kg	SW846 8270D
Benzo(a)pyrene		882	40	18	ug/kg	SW846 8270D
Benzo(b)fluoranthene		1340	40	18	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		725	40	20	ug/kg	SW846 8270D
Benzo(k)fluoranthene		428	40	19	ug/kg	SW846 8270D
1,1'-Biphenyl		127	81	5.5	ug/kg	SW846 8270D
Benzaldehyde		550	200	10	ug/kg	SW846 8270D
2-Chloronaphthalene		21.1 J	81	9.6	ug/kg	SW846 8270D
Carbazole		60.7 J	81	5.9	ug/kg	SW846 8270D
Chrysene		1230	40	13	ug/kg	SW846 8270D

Summary of Hits

Job Number: JC39407
Account: EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY
Collected: 03/21/17

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Dibenzo(a,h)anthracene		228	40	18	ug/kg	SW846 8270D
Dibenzofuran		115	81	16	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		91.2	81	9.5	ug/kg	SW846 8270D
Fluoranthene		1330	40	18	ug/kg	SW846 8270D
Fluorene		89.0	40	19	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		741	40	19	ug/kg	SW846 8270D
2-Methylnaphthalene		454	81	9.1	ug/kg	SW846 8270D
Naphthalene		711	40	11	ug/kg	SW846 8270D
Phenanthrene		1080	40	14	ug/kg	SW846 8270D
Pyrene		1610	40	13	ug/kg	SW846 8270D
Aroclor 1260 ^b		144	37	16	ug/kg	SW846 8082A
Arsenic		17.4	2.4		mg/kg	SW846 6010C
Beryllium		0.82	0.24		mg/kg	SW846 6010C
Chromium		13.0	1.2		mg/kg	SW846 6010C
Copper		181	3.0		mg/kg	SW846 6010C
Lead		61.2	2.4		mg/kg	SW846 6010C
Mercury		0.40	0.038		mg/kg	SW846 7471B
Nickel		21.7	4.8		mg/kg	SW846 6010C
Zinc		51.1	5.9		mg/kg	SW846 6010C

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

(b) Reported from 2nd signal. %D of check on 1st signal excess method criteria (20 %) so using for confirmation only.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: SB-10 (0-2)		Date Sampled: 03/21/17
Lab Sample ID: JC39407-1		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 92.8
Method: SW846 8260C SW846 5035		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Y170960.D	1	03/24/17	PS	03/23/17 11:00	n/a	VY7401
Run #2							

Run #	Initial Weight
Run #1	6.4 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	5.2	8.4	4.2	ug/kg	J
71-43-2	Benzene	ND	0.42	0.10	ug/kg	
74-97-5	Bromochloromethane	ND	4.2	0.27	ug/kg	
75-27-4	Bromodichloromethane	ND	1.7	0.13	ug/kg	
75-25-2	Bromoform	ND	4.2	0.22	ug/kg	
74-83-9	Bromomethane	ND	4.2	0.41	ug/kg	
78-93-3	2-Butanone (MEK)	ND	8.4	1.5	ug/kg	
75-15-0	Carbon disulfide	ND	1.7	0.14	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.7	0.14	ug/kg	
108-90-7	Chlorobenzene	ND	1.7	0.14	ug/kg	
75-00-3	Chloroethane	ND	4.2	0.36	ug/kg	
67-66-3	Chloroform	ND	1.7	0.20	ug/kg	
74-87-3	Chloromethane	ND	4.2	0.18	ug/kg	
110-82-7	Cyclohexane	ND	1.7	0.46	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.41	ug/kg	
124-48-1	Dibromochloromethane	ND	1.7	0.13	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.84	0.20	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.84	0.14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.84	0.12	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.84	0.13	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.2	0.46	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.84	0.16	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.84	0.14	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.84	0.13	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.84	0.37	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.84	0.13	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.7	0.26	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	0.17	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	0.19	ug/kg	
100-41-4	Ethylbenzene	ND	0.84	0.13	ug/kg	
76-13-1	Freon 113 ^b	ND	4.2	0.41	ug/kg	
591-78-6	2-Hexanone	ND	4.2	1.2	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-10 (0-2)	Date Sampled:	03/21/17
Lab Sample ID:	JC39407-1	Date Received:	03/22/17
Matrix:	SO - Soil	Percent Solids:	92.8
Method:	SW846 8260C SW846 5035		
Project:	1217000088, 159-161 Alexander Street, Yonkers, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.7	0.13	ug/kg	
79-20-9	Methyl Acetate	ND	4.2	1.7	ug/kg	
108-87-2	Methylcyclohexane	ND	1.7	0.43	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.84	0.22	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.2	0.71	ug/kg	
75-09-2	Methylene chloride	0.94	4.2	0.84	ug/kg	J
100-42-5	Styrene	ND	1.7	0.12	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.7	0.20	ug/kg	
127-18-4	Tetrachloroethene	ND	1.7	0.24	ug/kg	
108-88-3	Toluene	ND	0.84	0.11	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.2	0.42	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.2	0.42	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.7	0.14	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.7	0.27	ug/kg	
79-01-6	Trichloroethene	ND	0.84	0.16	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.2	0.53	ug/kg	
75-01-4	Vinyl chloride	ND	1.7	0.17	ug/kg	
	m,p-Xylene	ND	0.84	0.18	ug/kg	
95-47-6	o-Xylene	ND	0.84	0.17	ug/kg	
1330-20-7	Xylene (total)	ND	0.84	0.17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		70-122%
17060-07-0	1,2-Dichloroethane-D4	96%		68-124%
2037-26-5	Toluene-D8	95%		77-125%
460-00-4	4-Bromofluorobenzene	106%		72-130%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

(b) This compound in BS is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-10 (0-2)		Date Sampled: 03/21/17
Lab Sample ID: JC39407-1		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 92.8
Method: SW846 8270D SW846 3546		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P112439.D	1	03/29/17	JJ	03/28/17	OP1427	EP5013
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	72	18	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	31	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	64	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	180	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	180	38	ug/kg	
95-48-7	2-Methylphenol	ND	72	23	ug/kg	
	3&4-Methylphenol	ND	72	29	ug/kg	
88-75-5	2-Nitrophenol	ND	180	24	ug/kg	
100-02-7	4-Nitrophenol	ND	360	96	ug/kg	
87-86-5	Pentachlorophenol	ND	140	34	ug/kg	
108-95-2	Phenol	ND	72	19	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	24	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	21	ug/kg	
83-32-9	Acenaphthene	18.5	36	12	ug/kg	J
208-96-8	Acenaphthylene	26.4	36	18	ug/kg	J
98-86-2	Acetophenone	24.6	180	7.7	ug/kg	J
120-12-7	Anthracene	72.7	36	22	ug/kg	
1912-24-9	Atrazine	23.0	72	15	ug/kg	J
56-55-3	Benzo(a)anthracene	276	36	10	ug/kg	
50-32-8	Benzo(a)pyrene	302	36	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	386	36	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	266	36	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	140	36	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	72	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	72	8.7	ug/kg	
92-52-4	1,1'-Biphenyl	23.5	72	4.9	ug/kg	J
100-52-7	Benzaldehyde	30.1	180	8.9	ug/kg	J
91-58-7	2-Chloronaphthalene	ND	72	8.5	ug/kg	
106-47-8	4-Chloroaniline	ND	180	13	ug/kg	
86-74-8	Carbazole	28.0	72	5.2	ug/kg	J

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-10 (0-2)		
Lab Sample ID: JC39407-1		Date Sampled: 03/21/17
Matrix: SO - Soil		Date Received: 03/22/17
Method: SW846 8270D SW846 3546		Percent Solids: 92.8
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	18.5	72	14	ug/kg	J
218-01-9	Chrysene	312	36	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	72	7.7	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	72	15	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	72	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	72	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	36	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	36	18	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	72	30	ug/kg	
123-91-1	1,4-Dioxane	ND	36	24	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	65.3	36	16	ug/kg	
132-64-9	Dibenzofuran	17.8	72	15	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	72	5.8	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	72	8.9	ug/kg	
84-66-2	Diethyl phthalate	ND	72	7.6	ug/kg	
131-11-3	Dimethyl phthalate	ND	72	6.4	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	72	8.4	ug/kg	
206-44-0	Fluoranthene	424	36	16	ug/kg	
86-73-7	Fluorene	ND	36	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	72	9.1	ug/kg	
87-68-3	Hexachlorobutadiene	ND	36	14	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	14	ug/kg	
67-72-1	Hexachloroethane	ND	180	18	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	250	36	17	ug/kg	
78-59-1	Isophorone	ND	72	7.7	ug/kg	
91-57-6	2-Methylnaphthalene	22.2	72	8.1	ug/kg	J
88-74-4	2-Nitroaniline	ND	180	8.4	ug/kg	
99-09-2	3-Nitroaniline	ND	180	9.0	ug/kg	
100-01-6	4-Nitroaniline	ND	180	9.3	ug/kg	
91-20-3	Naphthalene	21.6	36	10	ug/kg	J
98-95-3	Nitrobenzene	ND	72	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	72	10	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	13	ug/kg	
85-01-8	Phenanthrene	236	36	12	ug/kg	
129-00-0	Pyrene	430	36	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	9.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	73%		23-115%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-10 (0-2)	
Lab Sample ID: JC39407-1	Date Sampled: 03/21/17
Matrix: SO - Soil	Date Received: 03/22/17
Method: SW846 8270D SW846 3546	Percent Solids: 92.8
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	76%		27-114%
118-79-6	2,4,6-Tribromophenol	68%		19-152%
4165-60-0	Nitrobenzene-d5	71%		26-134%
321-60-8	2-Fluorobiphenyl	77%		39-124%
1718-51-0	Terphenyl-d14	76%		36-134%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-10 (0-2)		
Lab Sample ID: JC39407-1		Date Sampled: 03/21/17
Matrix: SO - Soil		Date Received: 03/22/17
Method: SW846 8082A SW846 3546		Percent Solids: 92.8
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX207035.D	1	03/26/17	HB	03/24/17	OP1371	GXX5975
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	17	ug/kg	
11104-28-2	Aroclor 1221	ND	35	17	ug/kg	
11141-16-5	Aroclor 1232	ND	35	14	ug/kg	
53469-21-9	Aroclor 1242	ND	35	12	ug/kg	
12672-29-6	Aroclor 1248	ND	35	22	ug/kg	
11097-69-1	Aroclor 1254	ND	35	17	ug/kg	
11096-82-5	Aroclor 1260	51.3	35	15	ug/kg	
11100-14-4	Aroclor 1268	ND	35	12	ug/kg	
37324-23-5	Aroclor 1262	ND	35	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		24-152%
877-09-8	Tetrachloro-m-xylene	103%		24-152%
2051-24-3	Decachlorobiphenyl	95%		10-166%
2051-24-3	Decachlorobiphenyl	101%		10-166%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-10 (0-2)	Date Sampled: 03/21/17
Lab Sample ID: JC39407-1	Date Received: 03/22/17
Matrix: SO - Soil	Percent Solids: 92.8
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.1	2.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Arsenic	4.9	2.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Beryllium	0.38	0.21	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Cadmium	< 0.53	0.53	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Chromium	24.6	1.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Copper	31.2	2.6	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Lead	100	2.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Mercury	0.13	0.033	mg/kg	1	03/27/17	03/27/17 JPM	SW846 7471B ¹	SW846 7471B ⁴
Nickel	19.1	4.2	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Selenium	< 2.1	2.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Silver	< 0.53	0.53	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Thallium	< 1.1	1.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Zinc	88.4	5.3	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: MA41646

(2) Instrument QC Batch: MA41648

(3) Prep QC Batch: MP99446

(4) Prep QC Batch: MP99495

RL = Reporting Limit

Report of Analysis

Client Sample ID: SB-11 (0-2)		
Lab Sample ID: JC39407-2		Date Sampled: 03/21/17
Matrix: SO - Soil		Date Received: 03/22/17
Method: SW846 8260C SW846 5035		Percent Solids: 88.9
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Y170961.D	1	03/24/17	PS	03/23/17 11:00	n/a	VY7401
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	7.3	11	5.6	ug/kg	J
71-43-2	Benzene	ND	0.56	0.13	ug/kg	
74-97-5	Bromochloromethane	ND	5.6	0.36	ug/kg	
75-27-4	Bromodichloromethane	ND	2.2	0.17	ug/kg	
75-25-2	Bromoform	ND	5.6	0.30	ug/kg	
74-83-9	Bromomethane	ND	5.6	0.55	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.0	ug/kg	
75-15-0	Carbon disulfide	ND	2.2	0.19	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.2	0.19	ug/kg	
108-90-7	Chlorobenzene	ND	2.2	0.18	ug/kg	
75-00-3	Chloroethane	ND	5.6	0.48	ug/kg	
67-66-3	Chloroform	0.31	2.2	0.27	ug/kg	J
74-87-3	Chloromethane	ND	5.6	0.24	ug/kg	
110-82-7	Cyclohexane	ND	2.2	0.61	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.2	0.54	ug/kg	
124-48-1	Dibromochloromethane	ND	2.2	0.17	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.27	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.19	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.15	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.17	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.6	0.61	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.21	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.19	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.17	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.49	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.18	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.2	0.35	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.2	0.22	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.2	0.25	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.17	ug/kg	
76-13-1	Freon 113 ^b	ND	5.6	0.54	ug/kg	
591-78-6	2-Hexanone	ND	5.6	1.6	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-11 (0-2)		Date Sampled: 03/21/17
Lab Sample ID: JC39407-2		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 88.9
Method: SW846 8260C SW846 5035		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.2	0.17	ug/kg	
79-20-9	Methyl Acetate	ND	5.6	2.3	ug/kg	
108-87-2	Methylcyclohexane	ND	2.2	0.57	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.30	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.6	0.96	ug/kg	
75-09-2	Methylene chloride	ND	5.6	1.1	ug/kg	
100-42-5	Styrene	ND	2.2	0.16	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.2	0.27	ug/kg	
127-18-4	Tetrachloroethene	5.2	2.2	0.32	ug/kg	
108-88-3	Toluene	ND	1.1	0.14	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.6	0.56	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	0.56	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.2	0.19	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.2	0.36	ug/kg	
79-01-6	Trichloroethene	1.5	1.1	0.21	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.6	0.71	ug/kg	
75-01-4	Vinyl chloride	ND	2.2	0.23	ug/kg	
	m,p-Xylene	ND	1.1	0.25	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.23	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-122%
17060-07-0	1,2-Dichloroethane-D4	98%		68-124%
2037-26-5	Toluene-D8	96%		77-125%
460-00-4	4-Bromofluorobenzene	108%		72-130%

- (a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.
- (b) This compound in BS is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-11 (0-2)		
Lab Sample ID: JC39407-2		Date Sampled: 03/21/17
Matrix: SO - Soil		Date Received: 03/22/17
Method: SW846 8270D SW846 3546		Percent Solids: 88.9
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P35877.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658
Run #2	6P35914.D	5	03/28/17	JJ	03/24/17	OP1361	E6P1659

Run #	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2	30.0 g	1.0 ml

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	75	19	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	23	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	32	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	67	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	190	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	190	40	ug/kg	
95-48-7	2-Methylphenol	ND	75	24	ug/kg	
	3&4-Methylphenol	ND	75	31	ug/kg	
88-75-5	2-Nitrophenol	ND	190	25	ug/kg	
100-02-7	4-Nitrophenol	ND	370	100	ug/kg	
87-86-5	Pentachlorophenol	ND	150	35	ug/kg	
108-95-2	Phenol	ND	75	20	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	25	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	22	ug/kg	
83-32-9	Acenaphthene	110	37	13	ug/kg	
208-96-8	Acenaphthylene	849	37	19	ug/kg	
98-86-2	Acetophenone	ND	190	8.1	ug/kg	
120-12-7	Anthracene	1000	37	23	ug/kg	
1912-24-9	Atrazine	ND	75	16	ug/kg	
56-55-3	Benzo(a)anthracene	2390	37	11	ug/kg	
50-32-8	Benzo(a)pyrene	4450 ^a	190	85	ug/kg	
205-99-2	Benzo(b)fluoranthene	5690 ^a	190	83	ug/kg	
191-24-2	Benzo(g,h,i)perylene	3060	37	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	1620	37	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	75	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	75	9.1	ug/kg	
92-52-4	1,1'-Biphenyl	27.5	75	5.1	ug/kg	J
100-52-7	Benzaldehyde	66.0	190	9.3	ug/kg	J
91-58-7	2-Chloronaphthalene	ND	75	8.9	ug/kg	
106-47-8	4-Chloroaniline	ND	190	13	ug/kg	
86-74-8	Carbazole	105	75	5.4	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-11 (0-2)		
Lab Sample ID: JC39407-2		Date Sampled: 03/21/17
Matrix: SO - Soil		Date Received: 03/22/17
Method: SW846 8270D SW846 3546		Percent Solids: 88.9
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	75	15	ug/kg	
218-01-9	Chrysene	3390 ^a	190	59	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	75	8.0	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	75	16	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	75	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	75	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	37	12	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	37	19	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	75	31	ug/kg	
123-91-1	1,4-Dioxane	ND	37	25	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	1030	37	17	ug/kg	
132-64-9	Dibenzofuran	78.6	75	15	ug/kg	
84-74-2	Di-n-butyl phthalate	94.5	75	6.1	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	75	9.3	ug/kg	
84-66-2	Diethyl phthalate	ND	75	8.0	ug/kg	
131-11-3	Dimethyl phthalate	ND	75	6.7	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	437	75	8.8	ug/kg	
206-44-0	Fluoranthene	1670	37	17	ug/kg	
86-73-7	Fluorene	88.0	37	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	75	9.5	ug/kg	
87-68-3	Hexachlorobutadiene	ND	37	15	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	370	15	ug/kg	
67-72-1	Hexachloroethane	ND	190	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	2900	37	18	ug/kg	
78-59-1	Isophorone	ND	75	8.0	ug/kg	
91-57-6	2-Methylnaphthalene	78.1	75	8.5	ug/kg	
88-74-4	2-Nitroaniline	ND	190	8.8	ug/kg	
99-09-2	3-Nitroaniline	ND	190	9.4	ug/kg	
100-01-6	4-Nitroaniline	ND	190	9.7	ug/kg	
91-20-3	Naphthalene	121	37	11	ug/kg	
98-95-3	Nitrobenzene	ND	75	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	75	11	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	14	ug/kg	
85-01-8	Phenanthrene	605	37	13	ug/kg	
129-00-0	Pyrene	4460 ^a	190	60	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	9.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	86%	76%	23-115%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: SB-11 (0-2)	Date Sampled: 03/21/17
Lab Sample ID: JC39407-2	Date Received: 03/22/17
Matrix: SO - Soil	Percent Solids: 88.9
Method: SW846 8270D SW846 3546	
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	81%	63%	27-114%
118-79-6	2,4,6-Tribromophenol	104%	84%	19-152%
4165-60-0	Nitrobenzene-d5	81%	73%	26-134%
321-60-8	2-Fluorobiphenyl	89%	75%	39-124%
1718-51-0	Terphenyl-d14	80%	76%	36-134%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-11 (0-2)		
Lab Sample ID: JC39407-2		Date Sampled: 03/21/17
Matrix: SO - Soil		Date Received: 03/22/17
Method: SW846 8082A SW846 3546		Percent Solids: 88.9
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX207040.D	1	03/26/17	HB	03/24/17	OP1371	GXX5975
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	16.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	17	ug/kg	
11104-28-2	Aroclor 1221	ND	35	17	ug/kg	
11141-16-5	Aroclor 1232	ND	35	14	ug/kg	
53469-21-9	Aroclor 1242	ND	35	12	ug/kg	
12672-29-6	Aroclor 1248	ND	35	22	ug/kg	
11097-69-1	Aroclor 1254 ^a	247	35	17	ug/kg	
11096-82-5	Aroclor 1260	ND	35	15	ug/kg	
11100-14-4	Aroclor 1268	ND	35	12	ug/kg	
37324-23-5	Aroclor 1262 ^a	342	35	23	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	95%		24-152%
877-09-8	Tetrachloro-m-xylene	102%		24-152%
2051-24-3	Decachlorobiphenyl	141%		10-166%
2051-24-3	Decachlorobiphenyl	168% ^b		10-166%

(a) Reported from 2nd signal. %D of check on 1st signal excess method criteria (20 %) so using for confirmation only.

(b) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-11 (0-2) Lab Sample ID: JC39407-2 Matrix: SO - Soil Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	Date Sampled: 03/21/17 Date Received: 03/22/17 Percent Solids: 88.9
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Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.2	2.2	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Arsenic	4.7	2.2	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Beryllium	0.37	0.22	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Cadmium	< 0.55	0.55	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Chromium	34.7	1.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Copper	76.3	2.7	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Lead	130	2.2	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Mercury	0.15	0.035	mg/kg	1	03/27/17	03/27/17 JPM	SW846 7471B ¹	SW846 7471B ⁴
Nickel	30.3	4.4	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Selenium	< 2.2	2.2	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Silver	< 0.55	0.55	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Thallium	< 1.1	1.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Zinc	132	5.5	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA41646
- (2) Instrument QC Batch: MA41648
- (3) Prep QC Batch: MP99446
- (4) Prep QC Batch: MP99495

RL = Reporting Limit

Report of Analysis

Client Sample ID: SB-12 (0-2)		Date Sampled: 03/21/17
Lab Sample ID: JC39407-3		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 93.4
Method: SW846 8260C SW846 5035		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Y170962.D	1	03/24/17	PS	03/23/17 11:00	n/a	VY7401
Run #2							

	Initial Weight
Run #1	5.5 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	5.2	9.7	4.9	ug/kg	J
71-43-2	Benzene	ND	0.49	0.12	ug/kg	
74-97-5	Bromochloromethane	ND	4.9	0.31	ug/kg	
75-27-4	Bromodichloromethane	ND	1.9	0.15	ug/kg	
75-25-2	Bromoform	ND	4.9	0.26	ug/kg	
74-83-9	Bromomethane	ND	4.9	0.47	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.7	1.7	ug/kg	
75-15-0	Carbon disulfide	ND	1.9	0.17	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.9	0.16	ug/kg	
108-90-7	Chlorobenzene	ND	1.9	0.16	ug/kg	
75-00-3	Chloroethane	ND	4.9	0.42	ug/kg	
67-66-3	Chloroform	ND	1.9	0.23	ug/kg	
74-87-3	Chloromethane	ND	4.9	0.21	ug/kg	
110-82-7	Cyclohexane	ND	1.9	0.53	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.47	ug/kg	
124-48-1	Dibromochloromethane	ND	1.9	0.15	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.97	0.24	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.97	0.17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.97	0.13	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.97	0.15	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.9	0.53	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.97	0.18	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.97	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.97	0.15	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.97	0.43	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.97	0.15	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.9	0.30	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.19	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	0.22	ug/kg	
100-41-4	Ethylbenzene	ND	0.97	0.15	ug/kg	
76-13-1	Freon 113 ^b	ND	4.9	0.47	ug/kg	
591-78-6	2-Hexanone	ND	4.9	1.4	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-12 (0-2)	Date Sampled:	03/21/17
Lab Sample ID:	JC39407-3	Date Received:	03/22/17
Matrix:	SO - Soil	Percent Solids:	93.4
Method:	SW846 8260C SW846 5035		
Project:	1217000088, 159-161 Alexander Street, Yonkers, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.9	0.15	ug/kg	
79-20-9	Methyl Acetate	ND	4.9	2.0	ug/kg	
108-87-2	Methylcyclohexane	ND	1.9	0.49	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.97	0.26	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.9	0.83	ug/kg	
75-09-2	Methylene chloride	ND	4.9	0.97	ug/kg	
100-42-5	Styrene	ND	1.9	0.14	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.9	0.23	ug/kg	
127-18-4	Tetrachloroethene	0.37	1.9	0.27	ug/kg	J
108-88-3	Toluene	ND	0.97	0.12	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.9	0.49	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	0.49	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.9	0.16	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.9	0.31	ug/kg	
79-01-6	Trichloroethene	ND	0.97	0.18	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.9	0.61	ug/kg	
75-01-4	Vinyl chloride	ND	1.9	0.20	ug/kg	
	m,p-Xylene	ND	0.97	0.21	ug/kg	
95-47-6	o-Xylene	ND	0.97	0.20	ug/kg	
1330-20-7	Xylene (total)	ND	0.97	0.20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-122%
17060-07-0	1,2-Dichloroethane-D4	96%		68-124%
2037-26-5	Toluene-D8	96%		77-125%
460-00-4	4-Bromofluorobenzene	106%		72-130%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

(b) This compound in BS is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-12 (0-2)		Date Sampled: 03/21/17
Lab Sample ID: JC39407-3		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 93.4
Method: SW846 8270D SW846 3546		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P35917.D	1	03/28/17	JJ	03/24/17	OP1361	E6P1659
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	71	18	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	30	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	63	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	180	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	180	38	ug/kg	
95-48-7	2-Methylphenol	ND	71	23	ug/kg	
	3&4-Methylphenol	ND	71	29	ug/kg	
88-75-5	2-Nitrophenol	ND	180	24	ug/kg	
100-02-7	4-Nitrophenol	ND	360	95	ug/kg	
87-86-5	Pentachlorophenol	ND	140	33	ug/kg	
108-95-2	Phenol	ND	71	19	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	24	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	21	ug/kg	
83-32-9	Acenaphthene	276	36	12	ug/kg	
208-96-8	Acenaphthylene	29.8	36	18	ug/kg	J
98-86-2	Acetophenone	ND	180	7.6	ug/kg	
120-12-7	Anthracene	543	36	22	ug/kg	
1912-24-9	Atrazine	ND	71	15	ug/kg	
56-55-3	Benzo(a)anthracene	1460	36	10	ug/kg	
50-32-8	Benzo(a)pyrene	1230	36	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	1360	36	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	737	36	18	ug/kg	
207-08-9	Benzo(k)fluoranthene	584	36	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	71	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	71	8.7	ug/kg	
92-52-4	1,1'-Biphenyl	34.9	71	4.9	ug/kg	J
100-52-7	Benzaldehyde	ND	180	8.8	ug/kg	
91-58-7	2-Chloronaphthalene	ND	71	8.5	ug/kg	
106-47-8	4-Chloroaniline	ND	180	13	ug/kg	
86-74-8	Carbazole	267	71	5.2	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-12 (0-2)	Date Sampled:	03/21/17
Lab Sample ID:	JC39407-3	Date Received:	03/22/17
Matrix:	SO - Soil	Percent Solids:	93.4
Method:	SW846 8270D SW846 3546		
Project:	1217000088, 159-161 Alexander Street, Yonkers, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	71	14	ug/kg	
218-01-9	Chrysene	1370	36	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	71	7.6	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	71	15	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	71	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	71	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	36	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	36	18	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	71	30	ug/kg	
123-91-1	1,4-Dioxane	ND	36	24	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	223	36	16	ug/kg	
132-64-9	Dibenzofuran	119	71	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	71	5.8	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	71	8.9	ug/kg	
84-66-2	Diethyl phthalate	ND	71	7.6	ug/kg	
131-11-3	Dimethyl phthalate	ND	71	6.3	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	71	8.3	ug/kg	
206-44-0	Fluoranthene	3020	36	16	ug/kg	
86-73-7	Fluorene	184	36	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	71	9.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	36	14	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	14	ug/kg	
67-72-1	Hexachloroethane	ND	180	18	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	707	36	17	ug/kg	
78-59-1	Isophorone	ND	71	7.6	ug/kg	
91-57-6	2-Methylnaphthalene	172	71	8.0	ug/kg	
88-74-4	2-Nitroaniline	ND	180	8.4	ug/kg	
99-09-2	3-Nitroaniline	ND	180	8.9	ug/kg	
100-01-6	4-Nitroaniline	ND	180	9.2	ug/kg	
91-20-3	Naphthalene	126	36	10	ug/kg	
98-95-3	Nitrobenzene	ND	71	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	71	10	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	13	ug/kg	
85-01-8	Phenanthrene	2200	36	12	ug/kg	
129-00-0	Pyrene	2610	36	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	9.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	79%		23-115%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-12 (0-2)	
Lab Sample ID: JC39407-3	Date Sampled: 03/21/17
Matrix: SO - Soil	Date Received: 03/22/17
Method: SW846 8270D SW846 3546	Percent Solids: 93.4
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	74%		27-114%
118-79-6	2,4,6-Tribromophenol	97%		19-152%
4165-60-0	Nitrobenzene-d5	82%		26-134%
321-60-8	2-Fluorobiphenyl	89%		39-124%
1718-51-0	Terphenyl-d14	96%		36-134%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-12 (0-2)	
Lab Sample ID: JC39407-3	Date Sampled: 03/21/17
Matrix: SO - Soil	Date Received: 03/22/17
Method: SW846 8082A SW846 3546	Percent Solids: 93.4
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX207041.D	1	03/26/17	HB	03/24/17	OP1371	GXX5975
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	16.6 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	32	16	ug/kg	
11104-28-2	Aroclor 1221	ND	32	16	ug/kg	
11141-16-5	Aroclor 1232	ND	32	13	ug/kg	
53469-21-9	Aroclor 1242	ND	32	11	ug/kg	
12672-29-6	Aroclor 1248	ND	32	20	ug/kg	
11097-69-1	Aroclor 1254	ND	32	16	ug/kg	
11096-82-5	Aroclor 1260 ^a	147	32	14	ug/kg	
11100-14-4	Aroclor 1268	ND	32	11	ug/kg	
37324-23-5	Aroclor 1262	ND	32	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	92%		24-152%
877-09-8	Tetrachloro-m-xylene	113%		24-152%
2051-24-3	Decachlorobiphenyl	77%		10-166%
2051-24-3	Decachlorobiphenyl	109%		10-166%

(a) Reported from 2nd signal. %D of check on 1st signal excess method criteria (20 %) so using for confirmation only.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-12 (0-2)	Date Sampled: 03/21/17
Lab Sample ID: JC39407-3	Date Received: 03/22/17
Matrix: SO - Soil	Percent Solids: 93.4
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.1	2.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Arsenic	6.6	2.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Beryllium	0.35	0.21	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Cadmium	0.95	0.54	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Chromium	26.0	1.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Copper	86.9	2.7	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Lead	394	2.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Mercury	0.27	0.032	mg/kg	1	03/27/17	03/27/17 JPM	SW846 7471B ¹	SW846 7471B ⁴
Nickel	21.4	4.3	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Selenium	< 2.1	2.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Silver	< 0.54	0.54	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Thallium	< 1.1	1.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Zinc	333	5.4	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA41646
- (2) Instrument QC Batch: MA41648
- (3) Prep QC Batch: MP99446
- (4) Prep QC Batch: MP99495

RL = Reporting Limit

Report of Analysis

Client Sample ID: SB-13 (2-4)		Date Sampled: 03/21/17
Lab Sample ID: JC39407-4		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 81.7
Method: SW846 8260C SW846 5035		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	Y170963.D	1	03/24/17	PS	03/23/17 11:00	n/a	VY7401
Run #2							

	Initial Weight
Run #1	5.9 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	37.9	10	5.2	ug/kg	
71-43-2	Benzene	0.34	0.52	0.12	ug/kg	J
74-97-5	Bromochloromethane	ND	5.2	0.33	ug/kg	
75-27-4	Bromodichloromethane	ND	2.1	0.16	ug/kg	
75-25-2	Bromoform	ND	5.2	0.28	ug/kg	
74-83-9	Bromomethane	ND	5.2	0.50	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	1.8	ug/kg	
75-15-0	Carbon disulfide	ND	2.1	0.18	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.1	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	2.1	0.17	ug/kg	
75-00-3	Chloroethane	ND	5.2	0.44	ug/kg	
67-66-3	Chloroform	ND	2.1	0.25	ug/kg	
74-87-3	Chloromethane	ND	5.2	0.22	ug/kg	
110-82-7	Cyclohexane	ND	2.1	0.57	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.1	0.50	ug/kg	
124-48-1	Dibromochloromethane	ND	2.1	0.16	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.25	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.16	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.2	0.57	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.16	ug/kg	
156-59-2	cis-1,2-Dichloroethene	1.0	1.0	0.45	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.1	0.32	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.1	0.20	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	0.23	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.15	ug/kg	
76-13-1	Freon 113 ^b	ND	5.2	0.50	ug/kg	
591-78-6	2-Hexanone	ND	5.2	1.4	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

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3

Client Sample ID: SB-13 (2-4)		Date Sampled: 03/21/17
Lab Sample ID: JC39407-4		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 81.7
Method: SW846 8260C SW846 5035		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.1	0.16	ug/kg	
79-20-9	Methyl Acetate	ND	5.2	2.1	ug/kg	
108-87-2	Methylcyclohexane	ND	2.1	0.52	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.27	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.2	0.88	ug/kg	
75-09-2	Methylene chloride	ND	5.2	1.0	ug/kg	
100-42-5	Styrene	ND	2.1	0.15	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	0.25	ug/kg	
127-18-4	Tetrachloroethene	0.70	2.1	0.29	ug/kg	J
108-88-3	Toluene	ND	1.0	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.2	0.52	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	0.52	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.1	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.1	0.34	ug/kg	
79-01-6	Trichloroethene	0.42	1.0	0.20	ug/kg	J
75-69-4	Trichlorofluoromethane	ND	5.2	0.65	ug/kg	
75-01-4	Vinyl chloride	ND	2.1	0.21	ug/kg	
	m,p-Xylene	ND	1.0	0.23	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.21	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		70-122%
17060-07-0	1,2-Dichloroethane-D4	96%		68-124%
2037-26-5	Toluene-D8	94%		77-125%
460-00-4	4-Bromofluorobenzene	106%		72-130%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

(b) This compound in BS is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-13 (2-4)		
Lab Sample ID: JC39407-4		Date Sampled: 03/21/17
Matrix: SO - Soil		Date Received: 03/22/17
Method: SW846 8270D SW846 3546		Percent Solids: 81.7
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M132765.D	1	03/30/17	AD	03/29/17	OP1472	EM5687
Run #2 ^a	6P35913.D	1	03/28/17	JJ	03/24/17	OP1361	E6P1659

Run #	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2	30.6 g	1.0 ml

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	81	20	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	200	25	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	200	34	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	200	72	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	200	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	200	43	ug/kg	
95-48-7	2-Methylphenol	ND	81	26	ug/kg	
	3&4-Methylphenol	236	81	33	ug/kg	
88-75-5	2-Nitrophenol	ND	200	27	ug/kg	
100-02-7	4-Nitrophenol	ND	400	110	ug/kg	
87-86-5	Pentachlorophenol	ND	160	38	ug/kg	
108-95-2	Phenol	158	81	21	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	200	27	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	200	30	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	200	24	ug/kg	
83-32-9	Acenaphthene	54.6	40	14	ug/kg	
208-96-8	Acenaphthylene	435	40	21	ug/kg	
98-86-2	Acetophenone	219	200	8.7	ug/kg	
120-12-7	Anthracene	313	40	25	ug/kg	
1912-24-9	Atrazine	ND	81	17	ug/kg	
56-55-3	Benzo(a)anthracene	859	40	11	ug/kg	
50-32-8	Benzo(a)pyrene	882	40	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	1340	40	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	725	40	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	428	40	19	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	81	16	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	81	9.9	ug/kg	
92-52-4	1,1'-Biphenyl	127	81	5.5	ug/kg	
100-52-7	Benzaldehyde	550	200	10	ug/kg	
91-58-7	2-Chloronaphthalene	21.1	81	9.6	ug/kg	J
106-47-8	4-Chloroaniline	ND	200	15	ug/kg	
86-74-8	Carbazole	60.7	81	5.9	ug/kg	J

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

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3

Client Sample ID: SB-13 (2-4)	
Lab Sample ID: JC39407-4	Date Sampled: 03/21/17
Matrix: SO - Soil	Date Received: 03/22/17
Method: SW846 8270D SW846 3546	Percent Solids: 81.7
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	81	16	ug/kg	
218-01-9	Chrysene	1230	40	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	81	8.6	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	81	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	81	15	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	81	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	40	13	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	40	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	81	34	ug/kg	
123-91-1	1,4-Dioxane	ND	40	27	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	228	40	18	ug/kg	
132-64-9	Dibenzofuran	115	81	16	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	81	6.6	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	81	10	ug/kg	
84-66-2	Diethyl phthalate	ND	81	8.6	ug/kg	
131-11-3	Dimethyl phthalate	ND	81	7.2	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	91.2	81	9.5	ug/kg	
206-44-0	Fluoranthene	1330	40	18	ug/kg	
86-73-7	Fluorene	89.0	40	19	ug/kg	
118-74-1	Hexachlorobenzene	ND	81	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	40	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	400	16	ug/kg	
67-72-1	Hexachloroethane	ND	200	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	741	40	19	ug/kg	
78-59-1	Isophorone	ND	81	8.6	ug/kg	
91-57-6	2-Methylnaphthalene	454	81	9.1	ug/kg	
88-74-4	2-Nitroaniline	ND	200	9.5	ug/kg	
99-09-2	3-Nitroaniline	ND	200	10	ug/kg	
100-01-6	4-Nitroaniline	ND	200	10	ug/kg	
91-20-3	Naphthalene	711	40	11	ug/kg	
98-95-3	Nitrobenzene	ND	81	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	81	12	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	15	ug/kg	
85-01-8	Phenanthrene	1080	40	14	ug/kg	
129-00-0	Pyrene	1610	40	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	200	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	65%	60%	23-115%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-13 (2-4) Lab Sample ID: JC39407-4 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	Date Sampled: 03/21/17 Date Received: 03/22/17 Percent Solids: 81.7
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ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	56%	58%	27-114%
118-79-6	2,4,6-Tribromophenol	44%	70%	19-152%
4165-60-0	Nitrobenzene-d5	9% ^b	12% ^c	26-134%
321-60-8	2-Fluorobiphenyl	70%	81%	39-124%
1718-51-0	Terphenyl-d14	69%	85%	36-134%

- (a) Confirmation run for surrogate recoveries.
- (b) Outside control limits due to matrix interference. Confirmed by re-extraction.
- (c) Outside control limits due to matrix interference.

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-13 (2-4)		
Lab Sample ID: JC39407-4		Date Sampled: 03/21/17
Matrix: SO - Soil		Date Received: 03/22/17
Method: SW846 8082A SW846 3546		Percent Solids: 81.7
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX207042.D	1	03/26/17	HB	03/24/17	OP1371	GXX5975
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	16.6 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	18	ug/kg	
11104-28-2	Aroclor 1221	ND	37	18	ug/kg	
11141-16-5	Aroclor 1232	ND	37	15	ug/kg	
53469-21-9	Aroclor 1242	ND	37	13	ug/kg	
12672-29-6	Aroclor 1248	ND	37	23	ug/kg	
11097-69-1	Aroclor 1254	ND	37	18	ug/kg	
11096-82-5	Aroclor 1260 ^a	144	37	16	ug/kg	
11100-14-4	Aroclor 1268	ND	37	13	ug/kg	
37324-23-5	Aroclor 1262	ND	37	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	121%		24-152%
877-09-8	Tetrachloro-m-xylene	88%		24-152%
2051-24-3	Decachlorobiphenyl	102%		10-166%
2051-24-3	Decachlorobiphenyl	141%		10-166%

(a) Reported from 2nd signal. %D of check on 1st signal excess method criteria (20 %) so using for confirmation only.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-13 (2-4)	Date Sampled: 03/21/17
Lab Sample ID: JC39407-4	Date Received: 03/22/17
Matrix: SO - Soil	Percent Solids: 81.7
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.4	2.4	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Arsenic	17.4	2.4	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Beryllium	0.82	0.24	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Cadmium	< 0.59	0.59	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Chromium	13.0	1.2	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Copper	181	3.0	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Lead	61.2	2.4	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Mercury	0.40	0.038	mg/kg	1	03/27/17	03/27/17 JPM	SW846 7471B ¹	SW846 7471B ⁴
Nickel	21.7	4.8	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Selenium	< 2.4	2.4	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Silver	< 0.59	0.59	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Thallium	< 1.2	1.2	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Zinc	51.1	5.9	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA41646
- (2) Instrument QC Batch: MA41648
- (3) Prep QC Batch: MP99446
- (4) Prep QC Batch: MP99495

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



ACCUTEST

SLC

CHAIN OF CUSTODY

SGS Accutest - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

Form containing client information (EBI Consulting), project information (154-161 Alexander St), collection data table, and various checkboxes for reporting and handling instructions.

INITIAL ASSESSMENT [Signature]
LABEL VERIFICATION [Signature]

Comments / Special Instructions:
* PP metals
** if sufficient amount please
Analyse for PCBs 808214

Sample inventory is verified upon receipt in the Laboratory
Custody Seal # [] Intact [] Not Intact
Preserved where applicable []
On Ice []
Cooler Temp. 2.3°C 3.3°C

SGS Accutest Sample Receipt Summary

Job Number: JC39407

Client: EBI Consulting

Project: 159 - 161 Alexander Street

Date / Time Received: 3/22/2017 6:04:00 PM

Delivery Method: Accutest Courier

Airbill #s:

Cooler Temps (Raw Measured) °C: Cooler 1: (2.3); Cooler 2: (3.3); Cooler 3: (3.7); Cooler 4: (2.7);

Cooler Temps (Corrected) °C: Cooler 1: (3.7); Cooler 2: (4.7); Cooler 3: (5.1); Cooler 4: (4.1);

<u>Cooler Security</u>	<u>Y or N</u>			<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	4	

<u>Quality Control Preservation</u>	<u>Y or N</u>		<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y or N</u>	
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y or N</u>	
1. Sample recvd within HT:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Condition of sample:	Intact	

<u>Sample Integrity - Instructions</u>	<u>Y or N</u>		<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments -1 through -4 Soil volatiles was not collected according to 5035 specifications. VOA lab to LL prep from intact volume.
 -3 Comments notes if sufficient volume, run PCB's. There is sufficient volume.

SM089-02
 Rev. Date 12/1/16

JC39407: Chain of Custody

Page 2 of 3

4.1
4

Responded to by: VP

Response Date: 3/23

Response:

Proceed as noted.

4.1

4

JC39407: Chain of Custody
Page 3 of 3

GC/MS Volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC39407

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY7401-MB	Y170944.D	1	03/24/17	PS	n/a	n/a	VY7401

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39407-1, JC39407-2, JC39407-3, JC39407-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/kg	
71-43-2	Benzene	ND	0.50	0.12	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.32	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.15	ug/kg	
75-25-2	Bromoform	ND	5.0	0.27	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.49	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	1.8	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	0.17	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.16	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.43	ug/kg	
67-66-3	Chloroform	ND	2.0	0.24	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.21	ug/kg	
110-82-7	Cyclohexane	ND	2.0	0.55	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.48	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.15	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.15	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.55	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.15	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.31	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.20	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.22	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.15	ug/kg	
76-13-1	Freon 113	ND	5.0	0.48	ug/kg	
591-78-6	2-Hexanone	ND	5.0	1.4	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	0.15	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	2.0	ug/kg	
108-87-2	Methylcyclohexane	ND	2.0	0.51	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.27	ug/kg	

Method Blank Summary

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY7401-MB	Y170944.D	1	03/24/17	PS	n/a	n/a	VY7401

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39407-1, JC39407-2, JC39407-3, JC39407-4

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.85	ug/kg	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/kg	
100-42-5	Styrene	ND	2.0	0.15	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.24	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.28	ug/kg	
108-88-3	Toluene	ND	1.0	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.50	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.32	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.19	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.63	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.20	ug/kg	
	m,p-Xylene	ND	1.0	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.20	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	97% 70-122%
17060-07-0	1,2-Dichloroethane-D4	95% 68-124%
2037-26-5	Toluene-D8	95% 77-125%
460-00-4	4-Bromofluorobenzene	99% 72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

5.1.1
5

Method Blank Summary

Job Number: JC39407

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY7401-MB2	Y170980.D	1	03/25/17	PS	n/a	n/a	VY7401

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39391-4DUP

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/kg	
71-43-2	Benzene	ND	0.50	0.12	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.32	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.15	ug/kg	
75-25-2	Bromoform	ND	5.0	0.27	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.49	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	1.8	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	0.17	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.16	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.43	ug/kg	
67-66-3	Chloroform	ND	2.0	0.24	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.21	ug/kg	
110-82-7	Cyclohexane	ND	2.0	0.55	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.48	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.15	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.15	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.55	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.15	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.31	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.20	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.22	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.15	ug/kg	
76-13-1	Freon 113	ND	5.0	0.48	ug/kg	
591-78-6	2-Hexanone	ND	5.0	1.4	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	0.15	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	2.0	ug/kg	
108-87-2	Methylcyclohexane	ND	2.0	0.51	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.27	ug/kg	

Method Blank Summary

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY7401-MB2	Y170980.D	1	03/25/17	PS	n/a	n/a	VY7401

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39391-4DUP

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.85	ug/kg	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/kg	
100-42-5	Styrene	ND	2.0	0.15	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.24	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.28	ug/kg	
108-88-3	Toluene	ND	1.0	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.50	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.32	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.19	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.63	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.20	ug/kg	
	m,p-Xylene	ND	1.0	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.20	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	96% 70-122%
17060-07-0	1,2-Dichloroethane-D4	93% 68-124%
2037-26-5	Toluene-D8	94% 77-125%
460-00-4	4-Bromofluorobenzene	102% 72-130%

Blank Spike Summary

Job Number: JC39407

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY7401-BS	Y170945.D	1	03/24/17	PS	n/a	n/a	VY7401

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39407-1, JC39407-2, JC39407-3, JC39407-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	200	146	73	30-150
71-43-2	Benzene	50	45.0	90	77-122
74-97-5	Bromochloromethane	50	43.8	88	81-126
75-27-4	Bromodichloromethane	50	45.0	90	82-130
75-25-2	Bromoform	50	47.1	94	78-134
74-83-9	Bromomethane	50	49.6	99	56-141
78-93-3	2-Butanone (MEK)	200	171	86	61-139
75-15-0	Carbon disulfide	50	53.6	107	68-131
56-23-5	Carbon tetrachloride	50	48.8	98	73-139
108-90-7	Chlorobenzene	50	48.0	96	79-120
75-00-3	Chloroethane	50	49.4	99	64-150
67-66-3	Chloroform	50	43.2	86	77-123
74-87-3	Chloromethane	50	47.7	95	50-140
110-82-7	Cyclohexane	50	45.9	92	66-131
96-12-8	1,2-Dibromo-3-chloropropane	50	44.2	88	70-128
124-48-1	Dibromochloromethane	50	45.4	91	82-129
106-93-4	1,2-Dibromoethane	50	44.3	89	83-125
95-50-1	1,2-Dichlorobenzene	50	46.6	93	79-118
541-73-1	1,3-Dichlorobenzene	50	47.1	94	76-119
106-46-7	1,4-Dichlorobenzene	50	46.7	93	75-118
75-71-8	Dichlorodifluoromethane	50	45.4	91	31-170
75-34-3	1,1-Dichloroethane	50	43.9	88	78-129
107-06-2	1,2-Dichloroethane	50	41.9	84	77-140
75-35-4	1,1-Dichloroethene	50	44.8	90	71-128
156-59-2	cis-1,2-Dichloroethene	50	43.5	87	73-123
156-60-5	trans-1,2-Dichloroethene	50	45.2	90	72-122
78-87-5	1,2-Dichloropropane	50	46.3	93	80-129
10061-01-5	cis-1,3-Dichloropropene	50	45.8	92	75-124
10061-02-6	trans-1,3-Dichloropropene	50	43.2	86	75-129
100-41-4	Ethylbenzene	50	48.1	96	75-121
76-13-1	Freon 113	50	78.8	158* a	67-136
591-78-6	2-Hexanone	200	177	89	63-140
98-82-8	Isopropylbenzene	50	48.9	98	70-126
79-20-9	Methyl Acetate	50	40.2	80	59-131
108-87-2	Methylcyclohexane	50	52.1	104	62-131
1634-04-4	Methyl Tert Butyl Ether	100	86.7	87	77-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY7401-BS	Y170945.D	1	03/24/17	PS	n/a	n/a	VY7401

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39407-1, JC39407-2, JC39407-3, JC39407-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	200	175	88	73-141
75-09-2	Methylene chloride	50	44.2	88	71-124
100-42-5	Styrene	50	47.3	95	79-125
79-34-5	1,1,2,2-Tetrachloroethane	50	43.9	88	72-121
127-18-4	Tetrachloroethene	50	52.8	106	70-135
108-88-3	Toluene	50	45.8	92	75-123
87-61-6	1,2,3-Trichlorobenzene	50	51.0	102	76-128
120-82-1	1,2,4-Trichlorobenzene	50	50.9	102	74-129
71-55-6	1,1,1-Trichloroethane	50	48.2	96	75-134
79-00-5	1,1,2-Trichloroethane	50	43.6	87	78-130
79-01-6	Trichloroethene	50	47.9	96	79-127
75-69-4	Trichlorofluoromethane	50	51.9	104	64-141
75-01-4	Vinyl chloride	50	49.7	99	57-136
	m,p-Xylene	100	99.2	99	75-122
95-47-6	o-Xylene	50	45.9	92	76-121
1330-20-7	Xylene (total)	150	145	97	76-121

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	96%	70-122%
17060-07-0	1,2-Dichloroethane-D4	90%	68-124%
2037-26-5	Toluene-D8	97%	77-125%
460-00-4	4-Bromofluorobenzene	97%	72-130%

(a) High percent recoveries and no associated positive reported in the QC batch.

* = Outside of Control Limits.

5.2.1
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Matrix Spike Summary

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39391-1MS	Y170957.D	1	03/24/17	PS	n/a	n/a	VY7401
JC39391-1	Y170951.D	1	03/24/17	PS	n/a	n/a	VY7401

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39407-1, JC39407-2, JC39407-3, JC39407-4

CAS No.	Compound	JC39391-1 ug/kg	Spike Q	MS ug/kg	MS %	Limits
67-64-1	Acetone	ND	297	149	50	10-180
71-43-2	Benzene	ND	74.2	59.7	80	48-136
74-97-5	Bromochloromethane	ND	74.2	56.1	76	53-137
75-27-4	Bromodichloromethane	ND	74.2	56.5	76	50-145
75-25-2	Bromoform	ND	74.2	50.7	68	39-148
74-83-9	Bromomethane	ND	74.2	64.0	86	12-156
78-93-3	2-Butanone (MEK)	ND	297	165	56	26-164
75-15-0	Carbon disulfide	ND	74.2	62.3	84	34-146
56-23-5	Carbon tetrachloride	ND	74.2	53.6	72	43-152
108-90-7	Chlorobenzene	ND	74.2	57.8	78	38-144
75-00-3	Chloroethane	ND	74.2	65.3	88	26-154
67-66-3	Chloroform	ND	74.2	58.1	78	52-134
74-87-3	Chloromethane	ND	74.2	62.4	84	41-142
110-82-7	Cyclohexane	ND	74.2	37.4	50	22-154
96-12-8	1,2-Dibromo-3-chloropropane	ND	74.2	42.4	57	29-145
124-48-1	Dibromochloromethane	ND	74.2	54.8	74	49-142
106-93-4	1,2-Dibromoethane	ND	74.2	52.8	71	46-139
95-50-1	1,2-Dichlorobenzene	ND	74.2	42.8	58	30-144
541-73-1	1,3-Dichlorobenzene	ND	74.2	44.3	60	28-148
106-46-7	1,4-Dichlorobenzene	ND	74.2	44.6	60	30-142
75-71-8	Dichlorodifluoromethane	ND	74.2	42.7	58	31-161
75-34-3	1,1-Dichloroethane	ND	74.2	60.8	82	54-137
107-06-2	1,2-Dichloroethane	ND	74.2	53.1	72	56-140
75-35-4	1,1-Dichloroethene	ND	74.2	53.5	72	41-143
156-59-2	cis-1,2-Dichloroethene	ND	74.2	58.3	79	45-137
156-60-5	trans-1,2-Dichloroethene	ND	74.2	58.3	79	42-141
78-87-5	1,2-Dichloropropane	ND	74.2	59.8	81	53-139
10061-01-5	cis-1,3-Dichloropropene	ND	74.2	55.6	75	41-144
10061-02-6	trans-1,3-Dichloropropene	ND	74.2	53.6	72	36-148
100-41-4	Ethylbenzene	ND	74.2	55.6	75	34-145
76-13-1	Freon 113	ND	74.2	69.8	94	30-152
591-78-6	2-Hexanone	ND	297	193	65	16-176
98-82-8	Isopropylbenzene	ND	74.2	47.8	64	36-145
79-20-9	Methyl Acetate	ND	74.2	119	160	26-176
108-87-2	Methylcyclohexane	ND	74.2	30.0	40	14-153
1634-04-4	Methyl Tert Butyl Ether	ND	148	106	71	54-129

* = Outside of Control Limits.

5.3.1
 5

Matrix Spike Summary

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39391-1MS	Y170957.D	1	03/24/17	PS	n/a	n/a	VY7401
JC39391-1	Y170951.D	1	03/24/17	PS	n/a	n/a	VY7401

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39407-1, JC39407-2, JC39407-3, JC39407-4

CAS No.	Compound	JC39391-1 ug/kg	Spike Q	MS ug/kg	MS %	Limits	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		297	189	64	33-154
75-09-2	Methylene chloride	2.8	J	74.2	58.9	76	47-133
100-42-5	Styrene	ND		74.2	53.2	72	32-156
79-34-5	1,1,2,2-Tetrachloroethane	ND		74.2	51.1	69	31-149
127-18-4	Tetrachloroethene	ND		74.2	56.6	76	34-163
108-88-3	Toluene	ND		74.2	59.7	80	40-141
87-61-6	1,2,3-Trichlorobenzene	ND		74.2	20.6	28	14-153
120-82-1	1,2,4-Trichlorobenzene	ND		74.2	23.2	31	14-156
71-55-6	1,1,1-Trichloroethane	ND		74.2	59.1	80	48-144
79-00-5	1,1,2-Trichloroethane	ND		74.2	53.9	73	43-146
79-01-6	Trichloroethene	ND		74.2	58.6	79	42-152
75-69-4	Trichlorofluoromethane	ND		74.2	52.1	70	39-153
75-01-4	Vinyl chloride	ND		74.2	60.0	81	38-149
	m,p-Xylene	ND		148	114	77	32-148
95-47-6	o-Xylene	ND		74.2	53.1	72	36-145
1330-20-7	Xylene (total)	ND		223	167	75	34-146

CAS No.	Surrogate Recoveries	MS	JC39391-1	Limits
1868-53-7	Dibromofluoromethane	92%	98%	70-122%
17060-07-0	1,2-Dichloroethane-D4	79%	96%	68-124%
2037-26-5	Toluene-D8	101%	96%	77-125%
460-00-4	4-Bromofluorobenzene	104%	105%	72-130%

* = Outside of Control Limits.

5.3.1
 5

Duplicate Summary

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39391-4DUP	Y170981.D	1	03/25/17	PS	n/a	n/a	VY7401
JC39391-4	Y170953.D	1	03/24/17	PS	n/a	n/a	VY7401

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39407-1, JC39407-2, JC39407-3, JC39407-4

CAS No.	Compound	JC39391-4 ug/kg	DUP Q	ug/kg	Q	RPD	Limits
67-64-1	Acetone	10.2	J	7.9	J	25	35
71-43-2	Benzene	ND		ND		nc	17
74-97-5	Bromochloromethane	ND		ND		nc	30
75-27-4	Bromodichloromethane	ND		ND		nc	30
75-25-2	Bromoform	ND		ND		nc	30
74-83-9	Bromomethane	ND		ND		nc	30
78-93-3	2-Butanone (MEK)	ND		ND		nc	30
75-15-0	Carbon disulfide	ND		ND		nc	20
56-23-5	Carbon tetrachloride	ND		ND		nc	30
108-90-7	Chlorobenzene	ND		ND		nc	30
75-00-3	Chloroethane	ND		ND		nc	30
67-66-3	Chloroform	ND		ND		nc	30
74-87-3	Chloromethane	ND		ND		nc	30
110-82-7	Cyclohexane	ND		ND		nc	30
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	30
124-48-1	Dibromochloromethane	ND		ND		nc	30
106-93-4	1,2-Dibromoethane	ND		ND		nc	30
95-50-1	1,2-Dichlorobenzene	ND		ND		nc	30
541-73-1	1,3-Dichlorobenzene	ND		ND		nc	30
106-46-7	1,4-Dichlorobenzene	ND		ND		nc	30
75-71-8	Dichlorodifluoromethane	ND		ND		nc	30
75-34-3	1,1-Dichloroethane	ND		ND		nc	30
107-06-2	1,2-Dichloroethane	ND		ND		nc	30
75-35-4	1,1-Dichloroethene	ND		ND		nc	30
156-59-2	cis-1,2-Dichloroethene	ND		ND		nc	30
156-60-5	trans-1,2-Dichloroethene	ND		ND		nc	30
78-87-5	1,2-Dichloropropane	ND		ND		nc	30
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	30
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	30
100-41-4	Ethylbenzene	ND		ND		nc	23
76-13-1	Freon 113	ND		ND		nc	30
591-78-6	2-Hexanone	ND		ND		nc	30
98-82-8	Isopropylbenzene	ND		ND		nc	22
79-20-9	Methyl Acetate	ND		ND		nc	30
108-87-2	Methylcyclohexane	ND		ND		nc	18
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	30

* = Outside of Control Limits.

5.4.1
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Duplicate Summary

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39391-4DUP	Y170981.D	1	03/25/17	PS	n/a	n/a	VY7401
JC39391-4	Y170953.D	1	03/24/17	PS	n/a	n/a	VY7401

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC39407-1, JC39407-2, JC39407-3, JC39407-4

CAS No.	Compound	JC39391-4 ug/kg	DUP Q	ug/kg	Q	RPD	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	30
75-09-2	Methylene chloride	2.1	J	1.2	J	55* a	37
100-42-5	Styrene	ND		ND		nc	30
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	30
127-18-4	Tetrachloroethene	ND		ND		nc	30
108-88-3	Toluene	ND		ND		nc	22
87-61-6	1,2,3-Trichlorobenzene	ND		ND		nc	30
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	30
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	30
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	30
79-01-6	Trichloroethene	ND		0.40	J	200* a	17
75-69-4	Trichlorofluoromethane	ND		ND		nc	30
75-01-4	Vinyl chloride	ND		ND		nc	30
	m,p-Xylene	ND		ND		nc	20
95-47-6	o-Xylene	ND		ND		nc	19
1330-20-7	Xylene (total)	ND		ND		nc	21

CAS No.	Surrogate Recoveries	DUP	JC39391-4	Limits
1868-53-7	Dibromofluoromethane	102%	99%	70-122%
17060-07-0	1,2-Dichloroethane-D4	100%	97%	68-124%
2037-26-5	Toluene-D8	96%	96%	77-125%
460-00-4	4-Bromofluorobenzene	109%	104%	72-130%

(a) High RPD due to possible sample nonhomogeneity.

* = Outside of Control Limits.

5.4.1
5

Instrument Performance Check (BFB)

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: VY7387-BFB	Injection Date: 03/09/17
Lab File ID: Y170551.D	Injection Time: 16:38
Instrument ID: GCMSY	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	16684	18.9	Pass
75	30.0 - 60.0% of mass 95	40898	46.4	Pass
95	Base peak, 100% relative abundance	88184	100.0	Pass
96	5.0 - 9.0% of mass 95	5884	6.67	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	73410	83.2	Pass
175	5.0 - 9.0% of mass 174	5878	6.67 (8.01) ^a	Pass
176	95.0 - 101.0% of mass 174	71858	81.5 (97.9) ^a	Pass
177	5.0 - 9.0% of mass 176	4737	5.37 (6.59) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VY7387-IC7387	Y170552.D	03/09/17	17:12	00:34	Initial cal 0.2
VY7387-IC7387	Y170553.D	03/09/17	17:40	01:02	Initial cal 0.5
VY7387-IC7387	Y170554.D	03/09/17	18:09	01:31	Initial cal 1
VY7387-IC7387	Y170555.D	03/09/17	18:37	01:59	Initial cal 2
VY7387-IC7387	Y170556.D	03/09/17	19:06	02:28	Initial cal 4
VY7387-IC7387	Y170557.D	03/09/17	19:34	02:56	Initial cal 8
VY7387-IC7387	Y170558.D	03/09/17	20:02	03:24	Initial cal 20
VY7387-ICC7387	Y170559.D	03/09/17	20:31	03:53	Initial cal 50
VY7387-IC7387	Y170560.D	03/09/17	20:59	04:21	Initial cal 100
VY7387-IC7387	Y170561.D	03/09/17	21:27	04:49	Initial cal 200
VY7387-ICV7387	Y170564.D	03/09/17	22:52	06:14	Initial cal verification 50
VY7387-ICV7387	Y170565.D	03/09/17	23:21	06:43	Initial cal verification 50

5.5.1
 5

Instrument Performance Check (BFB)

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: VY7401-BFB	Injection Date: 03/24/17
Lab File ID: Y170943A.D	Injection Time: 07:24
Instrument ID: GCMSY	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	17440	17.5	Pass
75	30.0 - 60.0% of mass 95	44408	44.6	Pass
95	Base peak, 100% relative abundance	99640	100.0	Pass
96	5.0 - 9.0% of mass 95	6886	6.91	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	85237	85.5	Pass
175	5.0 - 9.0% of mass 174	6595	6.62 (7.74) ^a	Pass
176	95.0 - 101.0% of mass 174	84458	84.8 (99.1) ^a	Pass
177	5.0 - 9.0% of mass 176	5822	5.84 (6.89) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VY7401-CC7387	Y170943.D	03/24/17	07:24	00:00	Continuing cal 20
VY7401-MB	Y170944.D	03/24/17	08:03	00:39	Method Blank
VY7401-BS	Y170945.D	03/24/17	08:39	01:15	Blank Spike
ZZZZZZ	Y170947.D	03/24/17	09:36	02:12	(unrelated sample)
ZZZZZZ	Y170948.D	03/24/17	10:04	02:40	(unrelated sample)
ZZZZZZ	Y170949.D	03/24/17	10:33	03:09	(unrelated sample)
ZZZZZZ	Y170950.D	03/24/17	11:01	03:37	(unrelated sample)
JC39391-1	Y170951.D	03/24/17	11:29	04:05	(used for QC only; not part of job JC39407)
ZZZZZZ	Y170952.D	03/24/17	11:58	04:34	(unrelated sample)
JC39391-4	Y170953.D	03/24/17	12:26	05:02	(used for QC only; not part of job JC39407)
ZZZZZZ	Y170954.D	03/24/17	12:54	05:30	(unrelated sample)
ZZZZZZ	Y170955.D	03/24/17	13:22	05:58	(unrelated sample)
ZZZZZZ	Y170956.D	03/24/17	13:51	06:27	(unrelated sample)
JC39391-1MS	Y170957.D	03/24/17	14:19	06:55	Matrix Spike
JC39407-1	Y170960.D	03/24/17	15:44	08:20	SB-10 (0-2)
JC39407-2	Y170961.D	03/24/17	16:12	08:48	SB-11 (0-2)
JC39407-3	Y170962.D	03/24/17	16:41	09:17	SB-12 (0-2)
JC39407-4	Y170963.D	03/24/17	17:09	09:45	SB-13 (2-4)
ZZZZZZ	Y170964.D	03/24/17	17:37	10:13	(unrelated sample)
ZZZZZZ	Y170965.D	03/24/17	18:06	10:42	(unrelated sample)

5.5.2
 5

Instrument Performance Check (BFB)

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: VY7402-BFB	Injection Date: 03/25/17
Lab File ID: Y170979A.D	Injection Time: 09:26
Instrument ID: GCMSY	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	18757	18.0	Pass
75	30.0 - 60.0% of mass 95	47133	45.3	Pass
95	Base peak, 100% relative abundance	103992	100.0	Pass
96	5.0 - 9.0% of mass 95	7172	6.90	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	89925	86.5	Pass
175	5.0 - 9.0% of mass 174	6433	6.19 (7.15) ^a	Pass
176	95.0 - 101.0% of mass 174	88381	85.0 (98.3) ^a	Pass
177	5.0 - 9.0% of mass 176	5901	5.67 (6.68) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VY7402-CC7387	Y170979.D	03/25/17	09:26	00:00	Continuing cal 20
ZZZZZZ	Y170980A.D	03/25/17	10:09	00:43	(unrelated sample)
VY7401-MB2	Y170980.D	03/25/17	10:09	00:43	Method Blank
JC39391-4DUP	Y170981.D	03/25/17	10:53	01:27	Duplicate
VY7402-MB	Y170983.D	03/25/17	11:56	02:30	Method Blank
VY7402-BS	Y170984.D	03/25/17	12:28	03:02	Blank Spike
JC39537-1	Y170986.D	03/25/17	13:25	03:59	(used for QC only; not part of job JC39407)
JC39537-2	Y170987.D	03/25/17	13:53	04:27	(used for QC only; not part of job JC39407)
ZZZZZZ	Y170988.D	03/25/17	14:22	04:56	(unrelated sample)
ZZZZZZ	Y170989.D	03/25/17	14:50	05:24	(unrelated sample)
JC39537-2DUP	Y170990.D	03/25/17	15:18	05:52	Duplicate
ZZZZZZ	Y170991.D	03/25/17	15:46	06:20	(unrelated sample)
ZZZZZZ	Y170992.D	03/25/17	16:15	06:49	(unrelated sample)
JC39537-1MS	Y170993.D	03/25/17	16:43	07:17	Matrix Spike
ZZZZZZ	Y170995.D	03/25/17	17:40	08:14	(unrelated sample)
ZZZZZZ	Y170996.D	03/25/17	18:08	08:42	(unrelated sample)
ZZZZZZ	Y170997.D	03/25/17	18:36	09:10	(unrelated sample)
ZZZZZZ	Y170998.D	03/25/17	19:05	09:39	(unrelated sample)
ZZZZZZ	Y170999.D	03/25/17	19:33	10:07	(unrelated sample)
ZZZZZZ	Y171000.D	03/25/17	20:02	10:36	(unrelated sample)
ZZZZZZ	Y171001.D	03/25/17	20:30	11:04	(unrelated sample)
ZZZZZZ	Y171002.D	03/25/17	20:59	11:33	(unrelated sample)

5.5.3
 5

Volatile Surrogate Recovery Summary

Job Number: JC39407

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Method: SW846 8260C	Matrix: SO
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JC39407-1	Y170960.D	98	96	95	106
JC39407-2	Y170961.D	99	98	96	108
JC39407-3	Y170962.D	100	96	96	106
JC39407-4	Y170963.D	97	96	94	106
JC39391-1MS	Y170957.D	92	79	101	104
JC39391-4DUP	Y170981.D	102	100	96	109
VY7401-BS	Y170945.D	96	90	97	97
VY7401-MB	Y170944.D	97	95	95	99
VY7401-MB2	Y170980.D	96	93	94	102

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	70-122%
S2 = 1,2-Dichloroethane-D4	68-124%
S3 = Toluene-D8	77-125%
S4 = 4-Bromofluorobenzene	72-130%

5.6.1
5

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC39407

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1361-MB1	6P35854.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-2, JC39407-3

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	67	16	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	20	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	28	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	59	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	36	ug/kg	
95-48-7	2-Methylphenol	ND	67	21	ug/kg	
	3&4-Methylphenol	ND	67	27	ug/kg	
88-75-5	2-Nitrophenol	ND	170	22	ug/kg	
100-02-7	4-Nitrophenol	ND	330	89	ug/kg	
87-86-5	Pentachlorophenol	ND	130	31	ug/kg	
108-95-2	Phenol	ND	67	17	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	25	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
98-86-2	Acetophenone	ND	170	7.2	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
1912-24-9	Atrazine	ND	67	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	8.1	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	4.6	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	7.9	ug/kg	
106-47-8	4-Chloroaniline	ND	170	12	ug/kg	
86-74-8	Carbazole	ND	67	4.8	ug/kg	
105-60-2	Caprolactam	ND	67	13	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	7.1	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	14	ug/kg	

Method Blank Summary

Job Number: JC39407

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1361-MB1	6P35854.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-2, JC39407-3

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	67	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	33	10	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	33	17	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	67	28	ug/kg	
123-91-1	1,4-Dioxane	ND	33	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
132-64-9	Dibenzofuran	ND	67	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	5.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	8.3	ug/kg	
84-66-2	Diethyl phthalate	ND	67	7.1	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	5.9	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	7.8	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	8.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	13	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	13	ug/kg	
67-72-1	Hexachloroethane	ND	170	16	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	16	ug/kg	
78-59-1	Isophorone	ND	67	7.1	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	7.5	ug/kg	
88-74-4	2-Nitroaniline	ND	170	7.9	ug/kg	
99-09-2	3-Nitroaniline	ND	170	8.3	ug/kg	
100-01-6	4-Nitroaniline	ND	170	8.6	ug/kg	
91-20-3	Naphthalene	ND	33	9.4	ug/kg	
98-95-3	Nitrobenzene	ND	67	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	9.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	12	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	8.5	ug/kg	

Method Blank Summary

Job Number: JC39407

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1361-MB1	6P35854.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-2, JC39407-3

CAS No.	Surrogate Recoveries	Limits	
367-12-4	2-Fluorophenol	96%	23-115%
4165-62-2	Phenol-d5	87%	27-114%
118-79-6	2,4,6-Tribromophenol	82%	19-152%
4165-60-0	Nitrobenzene-d5	89%	26-134%
321-60-8	2-Fluorobiphenyl	84%	39-124%
1718-51-0	Terphenyl-d14	96%	36-134%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

Method Blank Summary

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1427-MB1	P112436.D	1	03/29/17	JJ	03/28/17	OP1427	EP5013

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-1

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	67	16	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	20	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	28	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	59	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	36	ug/kg	
95-48-7	2-Methylphenol	ND	67	21	ug/kg	
	3&4-Methylphenol	ND	67	27	ug/kg	
88-75-5	2-Nitrophenol	ND	170	22	ug/kg	
100-02-7	4-Nitrophenol	ND	330	89	ug/kg	
87-86-5	Pentachlorophenol	ND	130	31	ug/kg	
108-95-2	Phenol	ND	67	17	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	25	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
98-86-2	Acetophenone	ND	170	7.2	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
1912-24-9	Atrazine	ND	67	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	8.1	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	4.6	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	7.9	ug/kg	
106-47-8	4-Chloroaniline	ND	170	12	ug/kg	
86-74-8	Carbazole	ND	67	4.8	ug/kg	
105-60-2	Caprolactam	ND	67	13	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	7.1	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	14	ug/kg	

Method Blank Summary

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1427-MB1	P112436.D	1	03/29/17	JJ	03/28/17	OP1427	EP5013

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-1

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	67	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	33	10	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	33	17	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	67	28	ug/kg	
123-91-1	1,4-Dioxane	ND	33	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
132-64-9	Dibenzofuran	ND	67	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	5.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	8.3	ug/kg	
84-66-2	Diethyl phthalate	ND	67	7.1	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	5.9	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	7.8	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	8.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	13	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	13	ug/kg	
67-72-1	Hexachloroethane	ND	170	16	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	16	ug/kg	
78-59-1	Isophorone	ND	67	7.1	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	7.5	ug/kg	
88-74-4	2-Nitroaniline	ND	170	7.9	ug/kg	
99-09-2	3-Nitroaniline	ND	170	8.3	ug/kg	
100-01-6	4-Nitroaniline	ND	170	8.6	ug/kg	
91-20-3	Naphthalene	ND	33	9.4	ug/kg	
98-95-3	Nitrobenzene	ND	67	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	9.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	12	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	8.5	ug/kg	

Method Blank Summary

Job Number: JC39407

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1427-MB1	P112436.D	1	03/29/17	JJ	03/28/17	OP1427	EP5013

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-1

CAS No.	Surrogate Recoveries	Limits	
367-12-4	2-Fluorophenol	87%	23-115%
4165-62-2	Phenol-d5	91%	27-114%
118-79-6	2,4,6-Tribromophenol	106%	19-152%
4165-60-0	Nitrobenzene-d5	82%	26-134%
321-60-8	2-Fluorobiphenyl	90%	39-124%
1718-51-0	Terphenyl-d14	86%	36-134%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.23	140	ug/kg	J
	system artifact	3.06	320	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

Method Blank Summary

Job Number: JC39407**Account:** EBIMAB EBI Consulting**Project:** 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1472-MB1	M132763.D	1	03/30/17	AD	03/29/17	OP1472	EM5687

The QC reported here applies to the following samples:**Method:** SW846 8270D

JC39407-4

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	67	16	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	20	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	28	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	59	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	36	ug/kg	
95-48-7	2-Methylphenol	ND	67	21	ug/kg	
	3&4-Methylphenol	ND	67	27	ug/kg	
88-75-5	2-Nitrophenol	ND	170	22	ug/kg	
100-02-7	4-Nitrophenol	ND	330	89	ug/kg	
87-86-5	Pentachlorophenol	ND	130	31	ug/kg	
108-95-2	Phenol	ND	67	17	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	25	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
98-86-2	Acetophenone	ND	170	7.2	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
1912-24-9	Atrazine	ND	67	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	8.1	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	4.6	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	7.9	ug/kg	
106-47-8	4-Chloroaniline	ND	170	12	ug/kg	
86-74-8	Carbazole	ND	67	4.8	ug/kg	
105-60-2	Caprolactam	ND	67	13	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	7.1	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	14	ug/kg	

Method Blank Summary

Job Number: JC39407

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1472-MB1	M132763.D	1	03/30/17	AD	03/29/17	OP1472	EM5687

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-4

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	67	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	33	10	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	33	17	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	67	28	ug/kg	
123-91-1	1,4-Dioxane	ND	33	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
132-64-9	Dibenzofuran	ND	67	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	5.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	8.3	ug/kg	
84-66-2	Diethyl phthalate	ND	67	7.1	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	5.9	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	7.8	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	8.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	13	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	13	ug/kg	
67-72-1	Hexachloroethane	ND	170	16	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	16	ug/kg	
78-59-1	Isophorone	ND	67	7.1	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	7.5	ug/kg	
88-74-4	2-Nitroaniline	ND	170	7.9	ug/kg	
99-09-2	3-Nitroaniline	ND	170	8.3	ug/kg	
100-01-6	4-Nitroaniline	ND	170	8.6	ug/kg	
91-20-3	Naphthalene	ND	33	9.4	ug/kg	
98-95-3	Nitrobenzene	ND	67	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	9.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	12	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	8.5	ug/kg	

Method Blank Summary

Job Number: JC39407

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1472-MB1	M132763.D	1	03/30/17	AD	03/29/17	OP1472	EM5687

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-4

CAS No.	Surrogate Recoveries	Limits	
367-12-4	2-Fluorophenol	84%	23-115%
4165-62-2	Phenol-d5	84%	27-114%
118-79-6	2,4,6-Tribromophenol	100%	19-152%
4165-60-0	Nitrobenzene-d5	84%	26-134%
321-60-8	2-Fluorobiphenyl	85%	39-124%
1718-51-0	Terphenyl-d14	97%	36-134%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.72	240	ug/kg	J
	system artifact	2.97	270	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1361-BS1	6P35855.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-2, JC39407-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1670	1210	73	44-122
59-50-7	4-Chloro-3-methyl phenol	1670	1460	88	50-123
120-83-2	2,4-Dichlorophenol	1670	1370	82	48-122
105-67-9	2,4-Dimethylphenol	1670	1390	83	48-124
51-28-5	2,4-Dinitrophenol	3330	2520	76	34-146
534-52-1	4,6-Dinitro-o-cresol	1670	1250	75	49-140
95-48-7	2-Methylphenol	1670	1320	79	40-126
	3&4-Methylphenol	1670	1300	78	40-127
88-75-5	2-Nitrophenol	1670	1280	77	44-133
100-02-7	4-Nitrophenol	1670	1300	78	35-153
87-86-5	Pentachlorophenol	1670	1230	74	15-149
108-95-2	Phenol	1670	1380	83	50-109
58-90-2	2,3,4,6-Tetrachlorophenol	1670	1300	78	44-132
95-95-4	2,4,5-Trichlorophenol	1670	1440	86	45-124
88-06-2	2,4,6-Trichlorophenol	1670	1450	87	57-122
83-32-9	Acenaphthene	1670	1280	77	53-119
208-96-8	Acenaphthylene	1670	1310	79	41-125
98-86-2	Acetophenone	1670	1310	79	52-112
120-12-7	Anthracene	1670	1390	83	51-120
1912-24-9	Atrazine	1670	1610	97	49-139
56-55-3	Benzo(a)anthracene	1670	1330	80	54-118
50-32-8	Benzo(a)pyrene	1670	1380	83	55-121
205-99-2	Benzo(b)fluoranthene	1670	1290	77	57-116
191-24-2	Benzo(g,h,i)perylene	1670	1330	80	40-124
207-08-9	Benzo(k)fluoranthene	1670	1320	79	59-116
101-55-3	4-Bromophenyl phenyl ether	1670	1420	85	60-122
85-68-7	Butyl benzyl phthalate	1670	1290	77	51-134
92-52-4	1,1'-Biphenyl	1670	1210	73	46-122
100-52-7	Benzaldehyde	1670	1070	64	14-139
91-58-7	2-Chloronaphthalene	1670	1210	73	49-120
106-47-8	4-Chloroaniline	1670	1090	65	10-115
86-74-8	Carbazole	1670	1400	84	52-124
105-60-2	Caprolactam	1670	1360	82	16-139
218-01-9	Chrysene	1670	1300	78	51-115
111-91-1	bis(2-Chloroethoxy)methane	1670	1300	78	36-131
111-44-4	bis(2-Chloroethyl)ether	1670	1100	66	41-131

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC39407

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1361-BS1	6P35855.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-2, JC39407-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	1670	1210	73	22-134
7005-72-3	4-Chlorophenyl phenyl ether	1670	1340	80	56-118
121-14-2	2,4-Dinitrotoluene	1670	1230	74	57-131
606-20-2	2,6-Dinitrotoluene	1670	1230	74	57-132
91-94-1	3,3'-Dichlorobenzidine	3330	2660	80	10-129
123-91-1	1,4-Dioxane	1670	847	51	10-110
53-70-3	Dibenzo(a,h)anthracene	1670	1330	80	48-121
132-64-9	Dibenzofuran	1670	1250	75	51-119
84-74-2	Di-n-butyl phthalate	1670	1280	77	59-125
117-84-0	Di-n-octyl phthalate	1670	1320	79	47-147
84-66-2	Diethyl phthalate	1670	1390	83	57-116
131-11-3	Dimethyl phthalate	1670	1360	82	56-116
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1300	78	53-133
206-44-0	Fluoranthene	1670	1350	81	58-117
86-73-7	Fluorene	1670	1320	79	56-114
118-74-1	Hexachlorobenzene	1670	1290	77	50-128
87-68-3	Hexachlorobutadiene	1670	1260	76	43-129
77-47-4	Hexachlorocyclopentadiene	3330	2660	80	15-140
67-72-1	Hexachloroethane	1670	1240	74	43-123
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1330	80	49-124
78-59-1	Isophorone	1670	1340	80	38-128
91-57-6	2-Methylnaphthalene	1670	1250	75	37-124
88-74-4	2-Nitroaniline	1670	1510	91	45-144
99-09-2	3-Nitroaniline	1670	1180	71	10-134
100-01-6	4-Nitroaniline	1670	1330	80	41-130
91-20-3	Naphthalene	1670	1240	74	44-116
98-95-3	Nitrobenzene	1670	1260	76	36-132
621-64-7	N-Nitroso-di-n-propylamine	1670	1290	77	38-125
86-30-6	N-Nitrosodiphenylamine	1670	1330	80	51-122
85-01-8	Phenanthrene	1670	1290	77	53-119
129-00-0	Pyrene	1670	1330	80	54-124
95-94-3	1,2,4,5-Tetrachlorobenzene	1670	1590	95	45-128

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC39407

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1361-BS1	6P35855.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-2, JC39407-3

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	92%	23-115%
4165-62-2	Phenol-d5	88%	27-114%
118-79-6	2,4,6-Tribromophenol	96%	19-152%
4165-60-0	Nitrobenzene-d5	86%	26-134%
321-60-8	2-Fluorobiphenyl	83%	39-124%
1718-51-0	Terphenyl-d14	91%	36-134%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1427-BS1	P112437.D	1	03/29/17	JJ	03/28/17	OP1427	EP5013

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1670	1190	71	44-122
59-50-7	4-Chloro-3-methyl phenol	1670	1290	77	50-123
120-83-2	2,4-Dichlorophenol	1670	1290	77	48-122
105-67-9	2,4-Dimethylphenol	1670	1060	64	48-124
51-28-5	2,4-Dinitrophenol	3330	2530	76	34-146
534-52-1	4,6-Dinitro-o-cresol	1670	1360	82	49-140
95-48-7	2-Methylphenol	1670	1360	82	40-126
	3&4-Methylphenol	1670	1360	82	40-127
88-75-5	2-Nitrophenol	1670	1340	80	44-133
100-02-7	4-Nitrophenol	1670	1260	76	35-153
87-86-5	Pentachlorophenol	1670	1020	61	15-149
108-95-2	Phenol	1670	1220	73	50-109
58-90-2	2,3,4,6-Tetrachlorophenol	1670	1290	77	44-132
95-95-4	2,4,5-Trichlorophenol	1670	1340	80	45-124
88-06-2	2,4,6-Trichlorophenol	1670	1380	83	57-122
83-32-9	Acenaphthene	1670	1360	82	53-119
208-96-8	Acenaphthylene	1670	1310	79	41-125
98-86-2	Acetophenone	1670	1220	73	52-112
120-12-7	Anthracene	1670	1410	85	51-120
1912-24-9	Atrazine	1670	1720	103	49-139
56-55-3	Benzo(a)anthracene	1670	1490	89	54-118
50-32-8	Benzo(a)pyrene	1670	1480	89	55-121
205-99-2	Benzo(b)fluoranthene	1670	1400	84	57-116
191-24-2	Benzo(g,h,i)perylene	1670	1410	85	40-124
207-08-9	Benzo(k)fluoranthene	1670	1400	84	59-116
101-55-3	4-Bromophenyl phenyl ether	1670	1520	91	60-122
85-68-7	Butyl benzyl phthalate	1670	1530	92	51-134
92-52-4	1,1'-Biphenyl	1670	1240	74	46-122
100-52-7	Benzaldehyde	1670	1170	70	14-139
91-58-7	2-Chloronaphthalene	1670	1260	76	49-120
106-47-8	4-Chloroaniline	1670	642	39	10-115
86-74-8	Carbazole	1670	1420	85	52-124
105-60-2	Caprolactam	1670	1130	68	16-139
218-01-9	Chrysene	1670	1470	88	51-115
111-91-1	bis(2-Chloroethoxy)methane	1670	1160	70	36-131
111-44-4	bis(2-Chloroethyl)ether	1670	1320	79	41-131

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC39407

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1427-BS1	P112437.D	1	03/29/17	JJ	03/28/17	OP1427	EP5013

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	1670	1340	80	22-134
7005-72-3	4-Chlorophenyl phenyl ether	1670	1430	86	56-118
121-14-2	2,4-Dinitrotoluene	1670	1550	93	57-131
606-20-2	2,6-Dinitrotoluene	1670	1520	91	57-132
91-94-1	3,3'-Dichlorobenzidine	3330	1880	56	10-129
123-91-1	1,4-Dioxane	1670	683	41	10-110
53-70-3	Dibenzo(a,h)anthracene	1670	1410	85	48-121
132-64-9	Dibenzofuran	1670	1330	80	51-119
84-74-2	Di-n-butyl phthalate	1670	1460	88	59-125
117-84-0	Di-n-octyl phthalate	1670	1460	88	47-147
84-66-2	Diethyl phthalate	1670	1380	83	57-116
131-11-3	Dimethyl phthalate	1670	1360	82	56-116
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1550	93	53-133
206-44-0	Fluoranthene	1670	1440	86	58-117
86-73-7	Fluorene	1670	1350	81	56-114
118-74-1	Hexachlorobenzene	1670	1490	89	50-128
87-68-3	Hexachlorobutadiene	1670	1260	76	43-129
77-47-4	Hexachlorocyclopentadiene	3330	2310	69	15-140
67-72-1	Hexachloroethane	1670	1320	79	43-123
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1400	84	49-124
78-59-1	Isophorone	1670	1050	63	38-128
91-57-6	2-Methylnaphthalene	1670	1180	71	37-124
88-74-4	2-Nitroaniline	1670	1350	81	45-144
99-09-2	3-Nitroaniline	1670	901	54	10-134
100-01-6	4-Nitroaniline	1670	1420	85	41-130
91-20-3	Naphthalene	1670	1110	67	44-116
98-95-3	Nitrobenzene	1670	1090	65	36-132
621-64-7	N-Nitroso-di-n-propylamine	1670	1160	70	38-125
86-30-6	N-Nitrosodiphenylamine	1670	1400	84	51-122
85-01-8	Phenanthrene	1670	1380	83	53-119
129-00-0	Pyrene	1670	1430	86	54-124
95-94-3	1,2,4,5-Tetrachlorobenzene	1670	1450	87	45-128

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC39407

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1427-BS1	P112437.D	1	03/29/17	JJ	03/28/17	OP1427	EP5013

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-1

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	91%	23-115%
4165-62-2	Phenol-d5	86%	27-114%
118-79-6	2,4,6-Tribromophenol	108%	19-152%
4165-60-0	Nitrobenzene-d5	70%	26-134%
321-60-8	2-Fluorobiphenyl	83%	39-124%
1718-51-0	Terphenyl-d14	99%	36-134%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC39407

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1472-BS1	M132764.D	1	03/30/17	AD	03/29/17	OP1472	EM5687

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1670	1290	77	44-122
59-50-7	4-Chloro-3-methyl phenol	1670	1430	86	50-123
120-83-2	2,4-Dichlorophenol	1670	1410	85	48-122
105-67-9	2,4-Dimethylphenol	1670	1210	73	48-124
51-28-5	2,4-Dinitrophenol	3330	2180	65	34-146
534-52-1	4,6-Dinitro-o-cresol	1670	1260	76	49-140
95-48-7	2-Methylphenol	1670	1280	77	40-126
	3&4-Methylphenol	1670	1350	81	40-127
88-75-5	2-Nitrophenol	1670	1570	94	44-133
100-02-7	4-Nitrophenol	1670	1460	88	35-153
87-86-5	Pentachlorophenol	1670	1710	103	15-149
108-95-2	Phenol	1670	1300	78	50-109
58-90-2	2,3,4,6-Tetrachlorophenol	1670	1400	84	44-132
95-95-4	2,4,5-Trichlorophenol	1670	1380	83	45-124
88-06-2	2,4,6-Trichlorophenol	1670	1400	84	57-122
83-32-9	Acenaphthene	1670	1400	84	53-119
208-96-8	Acenaphthylene	1670	1350	81	41-125
98-86-2	Acetophenone	1670	1300	78	52-112
120-12-7	Anthracene	1670	1360	82	51-120
1912-24-9	Atrazine	1670	1590	95	49-139
56-55-3	Benzo(a)anthracene	1670	1440	86	54-118
50-32-8	Benzo(a)pyrene	1670	1470	88	55-121
205-99-2	Benzo(b)fluoranthene	1670	1460	88	57-116
191-24-2	Benzo(g,h,i)perylene	1670	1360	82	40-124
207-08-9	Benzo(k)fluoranthene	1670	1410	85	59-116
101-55-3	4-Bromophenyl phenyl ether	1670	1460	88	60-122
85-68-7	Butyl benzyl phthalate	1670	1560	94	51-134
92-52-4	1,1'-Biphenyl	1670	1320	79	46-122
100-52-7	Benzaldehyde	1670	1170	70	14-139
91-58-7	2-Chloronaphthalene	1670	1310	79	49-120
106-47-8	4-Chloroaniline	1670	884	53	10-115
86-74-8	Carbazole	1670	1380	83	52-124
105-60-2	Caprolactam	1670	1200	72	16-139
218-01-9	Chrysene	1670	1390	83	51-115
111-91-1	bis(2-Chloroethoxy)methane	1670	1430	86	36-131
111-44-4	bis(2-Chloroethyl)ether	1670	1440	86	41-131

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC39407

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1472-BS1	M132764.D	1	03/30/17	AD	03/29/17	OP1472	EM5687

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	1670	1290	77	22-134
7005-72-3	4-Chlorophenyl phenyl ether	1670	1330	80	56-118
121-14-2	2,4-Dinitrotoluene	1670	1350	81	57-131
606-20-2	2,6-Dinitrotoluene	1670	1580	95	57-132
91-94-1	3,3'-Dichlorobenzidine	3330	2160	65	10-129
123-91-1	1,4-Dioxane	1670	851	51	10-110
53-70-3	Dibenzo(a,h)anthracene	1670	1380	83	48-121
132-64-9	Dibenzofuran	1670	1350	81	51-119
84-74-2	Di-n-butyl phthalate	1670	1450	87	59-125
117-84-0	Di-n-octyl phthalate	1670	1670	100	47-147
84-66-2	Diethyl phthalate	1670	1350	81	57-116
131-11-3	Dimethyl phthalate	1670	1350	81	56-116
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1590	95	53-133
206-44-0	Fluoranthene	1670	1380	83	58-117
86-73-7	Fluorene	1670	1380	83	56-114
118-74-1	Hexachlorobenzene	1670	1360	82	50-128
87-68-3	Hexachlorobutadiene	1670	1370	82	43-129
77-47-4	Hexachlorocyclopentadiene	3330	2710	81	15-140
67-72-1	Hexachloroethane	1670	1330	80	43-123
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1360	82	49-124
78-59-1	Isophorone	1670	1320	79	38-128
91-57-6	2-Methylnaphthalene	1670	1380	83	37-124
88-74-4	2-Nitroaniline	1670	1440	86	45-144
99-09-2	3-Nitroaniline	1670	1260	76	10-134
100-01-6	4-Nitroaniline	1670	1460	88	41-130
91-20-3	Naphthalene	1670	1340	80	44-116
98-95-3	Nitrobenzene	1670	1330	80	36-132
621-64-7	N-Nitroso-di-n-propylamine	1670	1180	71	38-125
86-30-6	N-Nitrosodiphenylamine	1670	1380	83	51-122
85-01-8	Phenanthrene	1670	1330	80	53-119
129-00-0	Pyrene	1670	1460	88	54-124
95-94-3	1,2,4,5-Tetrachlorobenzene	1670	1500	90	45-128

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC39407

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1472-BS1	M132764.D	1	03/30/17	AD	03/29/17	OP1472	EM5687

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-4

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	95%	23-115%
4165-62-2	Phenol-d5	92%	27-114%
118-79-6	2,4,6-Tribromophenol	104%	19-152%
4165-60-0	Nitrobenzene-d5	89%	26-134%
321-60-8	2-Fluorobiphenyl	87%	39-124%
1718-51-0	Terphenyl-d14	101%	36-134%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC39407

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1361-MS	6P35856.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658
OP1361-MSD	6P35857.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658
JC39101-1	6P35858.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-2, JC39407-3

CAS No.	Compound	JC39101-1 ug/kg	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD	
95-57-8	2-Chlorophenol	ND	1760	1050	60	1800	1030	57	2	10-137/34	
59-50-7	4-Chloro-3-methyl phenol	ND	1760	1430	81	1800	1390	77	3	11-147/35	
120-83-2	2,4-Dichlorophenol	ND	1760	1320	75	1800	1290	72	2	15-140/34	
105-67-9	2,4-Dimethylphenol	ND	1760	1320	75	1800	1240	69	6	10-151/34	
51-28-5	2,4-Dinitrophenol	ND	3520	2310	66	3600	2280	63	1	10-148/49	
534-52-1	4,6-Dinitro-o-cresol	ND	1760	1260	72	1800	1200	67	5	10-150/48	
95-48-7	2-Methylphenol	ND	1760	1200	68	1800	1190	66	1	10-138/33	
	3&4-Methylphenol	ND	1760	1190	68	1800	1200	67	1	10-143/33	
88-75-5	2-Nitrophenol	ND	1760	1180	67	1800	1120	62	5	10-150/39	
100-02-7	4-Nitrophenol	ND	1760	1290	73	1800	1280	71	1	10-163/38	
87-86-5	Pentachlorophenol	ND	1760	1270	72	1800	1250	69	2	10-148/39	
108-95-2	Phenol	ND	1760	1250	71	1800	1200	67	4	24-114/32	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	1760	1290	73	1800	1280	71	1	14-140/38	
95-95-4	2,4,5-Trichlorophenol	ND	1760	1460	83	1800	1450	81	1	10-146/36	
88-06-2	2,4,6-Trichlorophenol	ND	1760	1460	83	1800	1420	79	3	16-148/36	
83-32-9	Acenaphthene	ND	1760	1310	74	1800	1280	71	2	21-136/34	
208-96-8	Acenaphthylene	ND	1760	1360	77	1800	1320	73	3	10-143/36	
98-86-2	Acetophenone	ND	1760	1160	66	1800	1120	62	4	24-127/31	
120-12-7	Anthracene	ND	1760	1450	82	1800	1370	76	6	10-147/39	
1912-24-9	Atrazine	ND	1760	1590	90	1800	1570	87	1	10-161/38	
56-55-3	Benzo(a)anthracene	19.6	J	1760	1420	80	1800	1380	76	3	10-151/41
50-32-8	Benzo(a)pyrene	18.4	J	1760	1440	81	1800	1390	76	4	10-149/40
205-99-2	Benzo(b)fluoranthene	25.5	J	1760	1350	75	1800	1260	69	7	10-147/42
191-24-2	Benzo(g,h,i)perylene	ND	1760	1380	78	1800	1340	74	3	10-150/41	
207-08-9	Benzo(k)fluoranthene	ND	1760	1340	76	1800	1400	78	4	12-142/41	
101-55-3	4-Bromophenyl phenyl ether	ND	1760	1450	82	1800	1390	77	4	26-138/37	
85-68-7	Butyl benzyl phthalate	ND	1760	1400	79	1800	1360	76	3	24-143/36	
92-52-4	1,1'-Biphenyl	ND	1760	1220	69	1800	1180	66	3	18-138/32	
100-52-7	Benzaldehyde	ND	1760	985	56	1800	942	52	4	10-149/37	
91-58-7	2-Chloronaphthalene	ND	1760	1240	70	1800	1190	66	4	24-130/31	
106-47-8	4-Chloroaniline	ND	1760	926	53	1800	945	52	2	10-111/52	
86-74-8	Carbazole	ND	1760	1360	77	1800	1350	75	1	12-146/39	
105-60-2	Caprolactam	ND	1760	1260	72	1800	1250	69	1	10-147/40	
218-01-9	Chrysene	23.9	J	1760	1390	78	1800	1360	74	2	10-151/41
111-91-1	bis(2-Chloroethoxy)methane	ND	1760	1260	72	1800	1180	66	7	10-144/35	
111-44-4	bis(2-Chloroethyl)ether	ND	1760	1120	64	1800	908	50	21	12-142/35	

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC39407

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1361-MS	6P35856.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658
OP1361-MSD	6P35857.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658
JC39101-1	6P35858.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-2, JC39407-3

CAS No.	Compound	JC39101-1 ug/kg	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-60-1	bis(2-Chloroisopropyl)ether	ND	1760	1090	62	1800	1060	59	3	10-137/33
7005-72-3	4-Chlorophenyl phenyl ether	ND	1760	1360	77	1800	1330	74	2	21-136/35
121-14-2	2,4-Dinitrotoluene	ND	1760	1280	73	1800	1270	71	1	14-148/41
606-20-2	2,6-Dinitrotoluene	ND	1760	1260	72	1800	1210	67	4	14-152/40
91-94-1	3,3'-Dichlorobenzidine	ND	3520	2560	73	3600	2440	68	5	10-137/47
123-91-1	1,4-Dioxane	ND	1760	737	42	1800	734	41	0	10-110/40
53-70-3	Dibenzo(a,h)anthracene	ND	1760	1370	78	1800	1310	73	4	10-152/38
132-64-9	Dibenzofuran	ND	1760	1260	72	1800	1250	69	1	17-141/36
84-74-2	Di-n-butyl phthalate	65.3	J 1760	1330	72	1800	1290	68	3	26-137/35
117-84-0	Di-n-octyl phthalate	ND	1760	1400	79	1800	1390	77	1	23-145/36
84-66-2	Diethyl phthalate	ND	1760	1440	82	1800	1410	78	2	25-133/35
131-11-3	Dimethyl phthalate	ND	1760	1410	80	1800	1370	76	3	21-134/36
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1760	1400	79	1800	1370	76	2	26-144/39
206-44-0	Fluoranthene	29.5	J 1760	1440	80	1800	1390	76	4	10-151/44
86-73-7	Fluorene	ND	1760	1350	77	1800	1310	73	3	19-133/36
118-74-1	Hexachlorobenzene	ND	1760	1350	77	1800	1280	71	5	18-142/37
87-68-3	Hexachlorobutadiene	ND	1760	1150	65	1800	1050	58	9	16-137/32
77-47-4	Hexachlorocyclopentadiene	ND	3520	2500	71	3600	2400	67	4	10-150/50
67-72-1	Hexachloroethane	ND	1760	1110	63	1800	1050	58	6	10-131/38
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1760	1380	78	1800	1330	74	4	10-148/41
78-59-1	Isophorone	ND	1760	1300	74	1800	1240	69	5	11-142/33
91-57-6	2-Methylnaphthalene	ND	1760	1180	67	1800	1150	64	3	10-141/35
88-74-4	2-Nitroaniline	ND	1760	1440	82	1800	1470	82	2	14-156/38
99-09-2	3-Nitroaniline	ND	1760	1150	65	1800	1220	68	6	10-144/45
100-01-6	4-Nitroaniline	ND	1760	1230	70	1800	1290	72	5	10-156/44
91-20-3	Naphthalene	ND	1760	1140	65	1800	1090	61	4	10-136/36
98-95-3	Nitrobenzene	ND	1760	1200	68	1800	1100	61	9	10-142/34
621-64-7	N-Nitroso-di-n-propylamine	ND	1760	1190	68	1800	1150	64	3	10-142/31
86-30-6	N-Nitrosodiphenylamine	ND	1760	1390	79	1800	1330	74	4	10-156/37
85-01-8	Phenanthrene	16.4	J 1760	1360	76	1800	1280	70	6	11-145/45
129-00-0	Pyrene	26.3	J 1760	1450	81	1800	1390	76	4	11-155/44
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	1760	1580	90	1800	1460	81	8	23-136/32

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1361-MS	6P35856.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658
OP1361-MSD	6P35857.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658
JC39101-1	6P35858.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-2, JC39407-3

CAS No.	Surrogate Recoveries	MS	MSD	JC39101-1	Limits
367-12-4	2-Fluorophenol	76%	70%	89%	23-115%
4165-62-2	Phenol-d5	76%	72%	81%	27-114%
118-79-6	2,4,6-Tribromophenol	94%	87%	86%	19-152%
4165-60-0	Nitrobenzene-d5	75%	68%	84%	26-134%
321-60-8	2-Fluorobiphenyl	81%	73%	81%	39-124%
1718-51-0	Terphenyl-d14	91%	84%	94%	36-134%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC39407

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1427-MS	P112441.D	1	03/29/17	JJ	03/28/17	OP1427	EP5013
OP1427-MSD	P112442.D	1	03/29/17	JJ	03/28/17	OP1427	EP5013
JC39372-1	P112438.D	1	03/29/17	JJ	03/28/17	OP1427	EP5013

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-1

CAS No.	Compound	JC39372-1 ug/kg	Spike Q	ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		2000	1300	65	2030	1140	56	13	10-137/34
59-50-7	4-Chloro-3-methyl phenol	ND		2000	1410	70	2030	1240	61	13	11-147/35
120-83-2	2,4-Dichlorophenol	ND		2000	1440	72	2030	1280	63	12	15-140/34
105-67-9	2,4-Dimethylphenol	ND		2000	1390	69	2030	1210	59	14	10-151/34
51-28-5	2,4-Dinitrophenol	ND		4000	ND	0* a	4070	ND	0* a	nc	10-148/49
534-52-1	4,6-Dinitro-o-cresol	ND		2000	180	9* a	2030	110	5* a	48	10-150/48
95-48-7	2-Methylphenol	ND		2000	1540	77	2030	1330	65	15	10-138/33
	3&4-Methylphenol	ND		2000	1500	75	2030	1300	64	14	10-143/33
88-75-5	2-Nitrophenol	ND		2000	1300	65	2030	678	33	63* b	10-150/39
100-02-7	4-Nitrophenol	ND		2000	1360	68	2030	846	42	47* b	10-163/38
87-86-5	Pentachlorophenol	ND		2000	906	45	2030	726	36	22	10-148/39
108-95-2	Phenol	ND		2000	1230	61	2030	1080	53	13	24-114/32
58-90-2	2,3,4,6-Tetrachlorophenol	ND		2000	1340	67	2030	1180	58	13	14-140/38
95-95-4	2,4,5-Trichlorophenol	ND		2000	1480	74	2030	1310	64	12	10-146/36
88-06-2	2,4,6-Trichlorophenol	ND		2000	1570	78	2030	1400	69	11	16-148/36
83-32-9	Acenaphthene	60.7		2000	1560	75	2030	1430	67	9	21-136/34
208-96-8	Acenaphthylene	104		2000	1510	70	2030	1390	63	8	10-143/36
98-86-2	Acetophenone	ND		2000	1370	68	2030	1210	59	12	24-127/31
120-12-7	Anthracene	153		2000	1620	73	2030	1510	67	7	10-147/39
1912-24-9	Atrazine	ND		2000	1680	84	2030	1440	71	15	10-161/38
56-55-3	Benzo(a)anthracene	429		2000	1830	70	2030	1640	60	11	10-151/41
50-32-8	Benzo(a)pyrene	362		2000	1790	71	2030	1620	62	10	10-149/40
205-99-2	Benzo(b)fluoranthene	574		2000	1960	69	2030	1720	56	13	10-147/42
191-24-2	Benzo(g,h,i)perylene	241		2000	1630	69	2030	1510	62	8	10-150/41
207-08-9	Benzo(k)fluoranthene	203		2000	1660	73	2030	1530	65	8	12-142/41
101-55-3	4-Bromophenyl phenyl ether	ND		2000	1560	78	2030	1420	70	9	26-138/37
85-68-7	Butyl benzyl phthalate	ND		2000	1500	75	2030	1320	65	13	24-143/36
92-52-4	1,1'-Biphenyl	175		2000	1430	63	2030	1330	57	7	18-138/32
100-52-7	Benzaldehyde	ND		2000	1950	97	2030	1830	90	6	10-149/37
91-58-7	2-Chloronaphthalene	ND		2000	1400	70	2030	1300	64	7	24-130/31
106-47-8	4-Chloroaniline	ND		2000	424	21	2030	474	23	11	10-111/52
86-74-8	Carbazole	75.4	J	2000	1360	64	2030	1300	60	5	12-146/39
105-60-2	Caprolactam	ND		2000	1430	71	2030	1230	60	15	10-147/40
218-01-9	Chrysene	770		2000	2310	77	2030	2080	64	10	10-151/41
111-91-1	bis(2-Chloroethoxy)methane	ND		2000	1300	65	2030	1180	58	10	10-144/35
111-44-4	bis(2-Chloroethyl)ether	ND		2000	1470	73	2030	1330	65	10	12-142/35

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC39407

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1427-MS	P112441.D	1	03/29/17	JJ	03/28/17	OP1427	EP5013
OP1427-MSD	P112442.D	1	03/29/17	JJ	03/28/17	OP1427	EP5013
JC39372-1	P112438.D	1	03/29/17	JJ	03/28/17	OP1427	EP5013

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-1

CAS No.	Compound	JC39372-1 ug/kg	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-60-1	bis(2-Chloroisopropyl)ether	ND	2000	1500	75	2030	1390	68	8	10-137/33
7005-72-3	4-Chlorophenyl phenyl ether	ND	2000	1560	78	2030	1450	71	7	21-136/35
121-14-2	2,4-Dinitrotoluene	ND	2000	1390	69	2030	918	45	41	14-148/41
606-20-2	2,6-Dinitrotoluene	ND	2000	1400	70	2030	959	47	37	14-152/40
91-94-1	3,3'-Dichlorobenzidine	ND	4000	131	3* a	4070	95.9	2* a	31	10-137/47
123-91-1	1,4-Dioxane	ND	2000	755	38	2030	671	33	12	10-110/40
53-70-3	Dibenzo(a,h)anthracene	94.2	2000	1610	76	2030	1480	68	8	10-152/38
132-64-9	Dibenzofuran	331	2000	1640	65	2030	1580	61	4	17-141/36
84-74-2	Di-n-butyl phthalate	ND	2000	1400	70	2030	1290	63	8	26-137/35
117-84-0	Di-n-octyl phthalate	ND	2000	1450	72	2030	1270	62	13	23-145/36
84-66-2	Diethyl phthalate	ND	2000	1430	71	2030	1320	65	8	25-133/35
131-11-3	Dimethyl phthalate	ND	2000	1410	70	2030	1300	64	8	21-134/36
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2000	1620	81	2030	1420	70	13	26-144/39
206-44-0	Fluoranthene	685	2000	2010	66	2030	1790	54	12	10-151/44
86-73-7	Fluorene	90.2	2000	1510	71	2030	1430	66	5	19-133/36
118-74-1	Hexachlorobenzene	ND	2000	1550	77	2030	1420	70	9	18-142/37
87-68-3	Hexachlorobutadiene	ND	2000	1430	71	2030	1310	64	9	16-137/32
77-47-4	Hexachlorocyclopentadiene	ND	4000	451	11	4070	134	3* a	108* b	10-150/50
67-72-1	Hexachloroethane	ND	2000	1320	66	2030	1050	52	23	10-131/38
193-39-5	Indeno(1,2,3-cd)pyrene	263	2000	1690	71	2030	1560	64	8	10-148/41
78-59-1	Isophorone	ND	2000	1210	60	2030	1110	55	9	11-142/33
91-57-6	2-Methylnaphthalene	1300	2000	2170	43	2030	2100	39	3	10-141/35
88-74-4	2-Nitroaniline	ND	2000	1240	62	2030	1120	55	10	14-156/38
99-09-2	3-Nitroaniline	ND	2000	606	30	2030	613	30	1	10-144/45
100-01-6	4-Nitroaniline	ND	2000	410	20	2030	461	23	12	10-156/44
91-20-3	Naphthalene	1070	2000	1930	43	2030	1830	37	5	10-136/36
98-95-3	Nitrobenzene	ND	2000	1170	58	2030	1040	51	12	10-142/34
621-64-7	N-Nitroso-di-n-propylamine	ND	2000	1250	62	2030	1130	56	10	10-142/31
86-30-6	N-Nitrosodiphenylamine	ND	2000	1640	82	2030	1500	74	9	10-156/37
85-01-8	Phenanthrene	1030	2000	2300	63	2030	2120	54	8	11-145/45
129-00-0	Pyrene	607	2000	2040	72	2030	1830	60	11	11-155/44
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2000	1680	84	2030	1580	78	6	23-136/32

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC39407

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1427-MS	P112441.D	1	03/29/17	JJ	03/28/17	OP1427	EP5013
OP1427-MSD	P112442.D	1	03/29/17	JJ	03/28/17	OP1427	EP5013
JC39372-1	P112438.D	1	03/29/17	JJ	03/28/17	OP1427	EP5013

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-1

CAS No.	Surrogate Recoveries	MS	MSD	JC39372-1	Limits
367-12-4	2-Fluorophenol	81%	68%	66%	23-115%
4165-62-2	Phenol-d5	83%	67%	65%	27-114%
118-79-6	2,4,6-Tribromophenol	97%	83%	72%	19-152%
4165-60-0	Nitrobenzene-d5	66%	56%	66%	26-134%
321-60-8	2-Fluorobiphenyl	79%	70%	69%	39-124%
1718-51-0	Terphenyl-d14	86%	74%	67%	36-134%

(a) Outside control limits due to matrix interference.

(b) Outside of in house control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1472-MS	M132770.D	1	03/30/17	AD	03/29/17	OP1472	EM5687
OP1472-MSD	M132771.D	1	03/30/17	AD	03/29/17	OP1472	EM5687
JC39411-1	M132772.D	1	03/30/17	AD	03/29/17	OP1472	EM5687

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-4

CAS No.	Compound	JC39411-1 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD	
95-57-8	2-Chlorophenol	ND		1930	60	1930	1100	57	4	10-137/34	
59-50-7	4-Chloro-3-methyl phenol	ND		1930	71	1930	1070	55	25	11-147/35	
120-83-2	2,4-Dichlorophenol	ND		1930	70	1930	1140	59	17	15-140/34	
105-67-9	2,4-Dimethylphenol	ND		1930	74	1930	1140	59	23	10-151/34	
51-28-5	2,4-Dinitrophenol	ND		3860	28	3860	507	13	74* a	10-148/49	
534-52-1	4,6-Dinitro-o-cresol	ND		1930	34	1930	177	9* b	115* a	10-150/48	
95-48-7	2-Methylphenol	ND		1930	65	1930	1050	54	17	10-138/33	
	3&4-Methylphenol	ND		1930	68	1930	1100	57	18	10-143/33	
88-75-5	2-Nitrophenol	ND		1930	73	1930	1080	56	26	10-150/39	
100-02-7	4-Nitrophenol	ND		1930	75	1930	1090	56	28	10-163/38	
87-86-5	Pentachlorophenol	ND		1930	99	1930	1230	64	43* a	10-148/39	
108-95-2	Phenol	ND		1930	60	1930	1000	52	14	24-114/32	
58-90-2	2,3,4,6-Tetrachlorophenol	ND		1930	69	1930	984	51	30	14-140/38	
95-95-4	2,4,5-Trichlorophenol	ND		1930	70	1930	1030	53	28	10-146/36	
88-06-2	2,4,6-Trichlorophenol	ND		1930	77	1930	1170	61	24	16-148/36	
83-32-9	Acenaphthene	ND		1930	73	1930	1160	60	19	21-136/34	
208-96-8	Acenaphthylene	27.1	J	1930	60	1930	838	42	34	10-143/36	
98-86-2	Acetophenone	ND		1930	60	1930	1200	62	3	24-127/31	
120-12-7	Anthracene	46.2		1930	68	1930	991	49	31	10-147/39	
1912-24-9	Atrazine	ND		1930	985	1930	758	39	26	10-161/38	
56-55-3	Benzo(a)anthracene	52.2		1930	65	1930	892	43	38	10-151/41	
50-32-8	Benzo(a)pyrene	74.3		1930	58	1930	770	36	43* a	10-149/40	
205-99-2	Benzo(b)fluoranthene	139		1930	62	1930	872	38	42	10-147/42	
191-24-2	Benzo(g,h,i)perylene	85.8		1930	43	1930	565	25	48* a	10-150/41	
207-08-9	Benzo(k)fluoranthene	35.8	J	1930	66	1930	877	44	40	12-142/41	
101-55-3	4-Bromophenyl phenyl ether	ND		1930	77	1930	1210	63	20	26-138/37	
85-68-7	Butyl benzyl phthalate	60.2	J	1930	74	1930	1100	54	29	24-143/36	
92-52-4	1,1'-Biphenyl	ND		1930	66	1930	1180	61	7	18-138/32	
100-52-7	Benzaldehyde	ND		1930	55	1930	1200	62	12	10-149/37	
91-58-7	2-Chloronaphthalene	ND		1930	67	1930	1140	59	13	24-130/31	
106-47-8	4-Chloroaniline	ND		1930	ND	0* b	1930	ND	0* b	nc	10-111/52
86-74-8	Carbazole	ND		1930	57	1930	594	31	60* a	12-146/39	
105-60-2	Caprolactam	ND		1930	51	1930	806	42	21	10-147/40	
218-01-9	Chrysene	78.3		1930	69	1930	968	46	37	10-151/41	
111-91-1	bis(2-Chloroethoxy)methane	ND		1930	52	1930	725	38	32	10-144/35	
111-44-4	bis(2-Chloroethyl)ether	ND		1930	64	1930	1200	62	2	12-142/35	

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1472-MS	M132770.D	1	03/30/17	AD	03/29/17	OP1472	EM5687
OP1472-MSD	M132771.D	1	03/30/17	AD	03/29/17	OP1472	EM5687
JC39411-1	M132772.D	1	03/30/17	AD	03/29/17	OP1472	EM5687

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-4

CAS No.	Compound	JC39411-1 ug/kg	Spike Q	ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-60-1	bis(2-Chloroisopropyl)ether	ND		1930	1160	60	1930	1200	62	3	10-137/33
7005-72-3	4-Chlorophenyl phenyl ether	ND		1930	1310	68	1930	1070	55	20	21-136/35
121-14-2	2,4-Dinitrotoluene	ND		1930	1250	65	1930	775	40	47* a	14-148/41
606-20-2	2,6-Dinitrotoluene	ND		1930	1530	79	1930	1010	52	41* a	14-152/40
91-94-1	3,3'-Dichlorobenzidine	ND		3860	ND	0* b	3860	47.1	1* b	200* a	10-137/47
123-91-1	1,4-Dioxane	ND		1930	678	35	1930	742	38	9	10-110/40
53-70-3	Dibenzo(a,h)anthracene	21.8	J	1930	1060	54	1930	741	37	35	10-152/38
132-64-9	Dibenzofuran	ND		1930	1300	67	1930	1020	53	24	17-141/36
84-74-2	Di-n-butyl phthalate	ND		1930	1380	71	1930	1070	55	25	26-137/35
117-84-0	Di-n-octyl phthalate	ND		1930	1570	81	1930	1250	65	23	23-145/36
84-66-2	Diethyl phthalate	ND		1930	1330	69	1930	1110	57	18	25-133/35
131-11-3	Dimethyl phthalate	ND		1930	1320	68	1930	1140	59	15	21-134/36
117-81-7	bis(2-Ethylhexyl)phthalate	125		1930	1590	76	1930	1310	61	19	26-144/39
206-44-0	Fluoranthene	72.7		1930	1200	58	1930	789	37	41	10-151/44
86-73-7	Fluorene	ND		1930	1310	68	1930	1050	54	22	19-133/36
118-74-1	Hexachlorobenzene	ND		1930	1390	72	1930	1130	59	21	18-142/37
87-68-3	Hexachlorobutadiene	ND		1930	1270	66	1930	1290	67	2	16-137/32
77-47-4	Hexachlorocyclopentadiene	ND		3860	173	4* b	3860	323	8* b	60* a	10-150/50
67-72-1	Hexachloroethane	ND		1930	435	23	1930	760	39	54* a	10-131/38
193-39-5	Indeno(1,2,3-cd)pyrene	84.7		1930	985	47	1930	618	28	46* a	10-148/41
78-59-1	Isophorone	ND		1930	1230	64	1930	1160	60	6	11-142/33
91-57-6	2-Methylnaphthalene	22.9	J	1930	1360	69	1930	1210	61	12	10-141/35
88-74-4	2-Nitroaniline	ND		1930	841	44	1930	911	47	8	14-156/38
99-09-2	3-Nitroaniline	ND		1930	ND	0* b	1930	ND	0* b	nc	10-144/45
100-01-6	4-Nitroaniline	ND		1930	83.8	4* b	1930	162	8* b	64* a	10-156/44
91-20-3	Naphthalene	24.0	J	1930	1280	65	1930	1230	62	4	10-136/36
98-95-3	Nitrobenzene	ND		1930	1310	68	1930	1260	65	4	10-142/34
621-64-7	N-Nitroso-di-n-propylamine	ND		1930	1150	60	1930	1130	59	2	10-142/31
86-30-6	N-Nitrosodiphenylamine	ND		1930	683	35	1930	612	32	11	10-156/37
85-01-8	Phenanthrene	51.3		1930	1450	72	1930	1060	52	31	11-145/45
129-00-0	Pyrene	112		1930	1550	74	1930	1080	50	36	11-155/44
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		1930	1570	81	1930	1430	74	9	23-136/32

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1472-MS	M132770.D	1	03/30/17	AD	03/29/17	OP1472	EM5687
OP1472-MSD	M132771.D	1	03/30/17	AD	03/29/17	OP1472	EM5687
JC39411-1	M132772.D	1	03/30/17	AD	03/29/17	OP1472	EM5687

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39407-4

CAS No.	Surrogate Recoveries	MS	MSD	JC39411-1	Limits
367-12-4	2-Fluorophenol	63%	69%	73%	23-115%
4165-62-2	Phenol-d5	66%	67%	76%	27-114%
118-79-6	2,4,6-Tribromophenol	94%	82%	104%	19-152%
4165-60-0	Nitrobenzene-d5	67%	73%	82%	26-134%
321-60-8	2-Fluorobiphenyl	69%	69%	83%	39-124%
1718-51-0	Terphenyl-d14	76%	69%	80%	36-134%

(a) Analytical precision exceeds in-house control limits.

(b) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: E6P1656-DFTPP	Injection Date: 03/24/17
Lab File ID: 6P35813.D	Injection Time: 07:23
Instrument ID: GCMS6P	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	84717	52.7	Pass
68	Less than 2.0% of mass 69	1114	0.69 (1.22) ^a	Pass
69	Mass 69 relative abundance	91042	56.6	Pass
70	Less than 2.0% of mass 69	662	0.41 (0.73) ^a	Pass
127	40.0 - 60.0% of mass 198	94490	58.7	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	160864	100.0	Pass
199	5.0 - 9.0% of mass 198	10818	6.72	Pass
275	10.0 - 30.0% of mass 198	44109	27.4	Pass
365	1.0 - 100.0% of mass 198	6838	4.25	Pass
441	Present, but less than mass 443	15342	9.54 (82.3) ^b	Pass
442	40.0 - 100.0% of mass 198	101682	63.2	Pass
443	17.0 - 23.0% of mass 442	18651	11.6 (18.3) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P1656-IC1656	6P35814.D	03/24/17	07:39	00:16	Initial cal 100
E6P1656-IC1656	6P35815.D	03/24/17	08:09	00:46	Initial cal 1
E6P1656-IC1656	6P35816.D	03/24/17	08:34	01:11	Initial cal 2
E6P1656-IC1656	6P35817.D	03/24/17	08:56	01:33	Initial cal 5
E6P1656-IC1656	6P35818.D	03/24/17	09:19	01:56	Initial cal 10
E6P1656-IC1656	6P35819.D	03/24/17	09:42	02:19	Initial cal 25
E6P1656-ICC1656	6P35820.D	03/24/17	10:05	02:42	Initial cal 50
E6P1656-IC1656	6P35821.D	03/24/17	10:28	03:05	Initial cal 80
E6P1656-ICV1656	6P35822.D	03/24/17	10:51	03:28	Initial cal verification 50
E6P1656-ICV1656	6P35823.D	03/24/17	11:14	03:51	Initial cal verification 50
E6P1656-ICV1656	6P35824.D	03/24/17	11:37	04:14	Initial cal verification 50
E6P1656-ICV1656	6P35825.D	03/24/17	12:00	04:37	Initial cal verification 50
E6P1656-ICV1656	6P35827.D	03/24/17	12:23	05:00	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: E6P1657-DFTPP	Injection Date: 03/24/17
Lab File ID: 6P35831.D	Injection Time: 13:11
Instrument ID: GCMS6P	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	97679	49.5	Pass
68	Less than 2.0% of mass 69	1111	0.56 (1.04) ^a	Pass
69	Mass 69 relative abundance	107130	54.3	Pass
70	Less than 2.0% of mass 69	587	0.30 (0.55) ^a	Pass
127	40.0 - 60.0% of mass 198	114024	57.8	Pass
197	Less than 1.0% of mass 198	254	0.13	Pass
198	Base peak, 100% relative abundance	197285	100.0	Pass
199	5.0 - 9.0% of mass 198	13590	6.89	Pass
275	10.0 - 30.0% of mass 198	54613	27.7	Pass
365	1.0 - 100.0% of mass 198	8820	4.47	Pass
441	Present, but less than mass 443	20271	10.3 (78.0) ^b	Pass
442	40.0 - 100.0% of mass 198	132258	67.0	Pass
443	17.0 - 23.0% of mass 442	26000	13.2 (19.7) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P1657-IC1657	6P35832.D	03/24/17	13:22	00:11	Initial cal 100
E6P1657-IC1657	6P35833.D	03/24/17	13:46	00:35	Initial cal 80
E6P1657-ICC1657	6P35834.D	03/24/17	14:09	00:58	Initial cal 50
E6P1657-IC1657	6P35835.D	03/24/17	14:32	01:21	Initial cal 25
E6P1657-IC1657	6P35836.D	03/24/17	14:55	01:44	Initial cal 10
E6P1657-IC1657	6P35837.D	03/24/17	15:18	02:07	Initial cal 5
E6P1657-IC1657	6P35838.D	03/24/17	15:41	02:30	Initial cal 2
E6P1657-IC1657	6P35839.D	03/24/17	16:05	02:54	Initial cal 1
E6P1657-ICV1657	6P35840.D	03/24/17	16:28	03:17	Initial cal verification 50
E6P1657-ICV1657	6P35841.D	03/24/17	16:51	03:40	Initial cal verification 50
E6P1657-ICV1657	6P35842.D	03/24/17	17:15	04:04	Initial cal verification 50
E6P1657-ICV1657	6P35843.D	03/24/17	17:38	04:27	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: E6P1658-DFTPP	Injection Date: 03/27/17
Lab File ID: 6P35851.D	Injection Time: 10:14
Instrument ID: GCMS6P	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	78352	52.8	Pass
68	Less than 2.0% of mass 69	1440	0.97 (1.75) ^a	Pass
69	Mass 69 relative abundance	82502	55.6	Pass
70	Less than 2.0% of mass 69	178	0.12 (0.22) ^a	Pass
127	40.0 - 60.0% of mass 198	87856	59.2	Pass
197	Less than 1.0% of mass 198	750	0.51	Pass
198	Base peak, 100% relative abundance	148290	100.0	Pass
199	5.0 - 9.0% of mass 198	9918	6.69	Pass
275	10.0 - 30.0% of mass 198	40840	27.5	Pass
365	1.0 - 100.0% of mass 198	6342	4.28	Pass
441	Present, but less than mass 443	14934	10.1 (76.5) ^b	Pass
442	40.0 - 100.0% of mass 198	98573	66.5	Pass
443	17.0 - 23.0% of mass 442	19521	13.2 (19.8) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P1658-CC1656	6P35852A.D	03/27/17	11:14	01:00	Continuing cal 50
E6P1658-CC1657	6P35853.D	03/27/17	11:37	01:23	Continuing cal 50
OP1361-MB1	6P35854.D	03/27/17	12:00	01:46	Method Blank
OP1361-BS1	6P35855.D	03/27/17	12:24	02:10	Blank Spike
OP1361-MS	6P35856.D	03/27/17	12:47	02:33	Matrix Spike
OP1361-MSD	6P35857.D	03/27/17	13:10	02:56	Matrix Spike Duplicate
JC39101-1	6P35858.D	03/27/17	13:33	03:19	(used for QC only; not part of job JC39407)
ZZZZZZ	6P35859.D	03/27/17	13:57	03:43	(unrelated sample)
ZZZZZZ	6P35860.D	03/27/17	14:20	04:06	(unrelated sample)
ZZZZZZ	6P35861.D	03/27/17	14:43	04:29	(unrelated sample)
ZZZZZZ	6P35862.D	03/27/17	15:07	04:53	(unrelated sample)
ZZZZZZ	6P35863.D	03/27/17	15:30	05:16	(unrelated sample)
ZZZZZZ	6P35864.D	03/27/17	15:54	05:40	(unrelated sample)
ZZZZZZ	6P35865.D	03/27/17	16:17	06:03	(unrelated sample)
ZZZZZZ	6P35867.D	03/27/17	16:41	06:27	(unrelated sample)
ZZZZZZ	6P35868.D	03/27/17	17:04	06:50	(unrelated sample)
ZZZZZZ	6P35869.D	03/27/17	17:28	07:14	(unrelated sample)
ZZZZZZ	6P35870.D	03/27/17	17:51	07:37	(unrelated sample)
ZZZZZZ	6P35871.D	03/27/17	18:15	08:01	(unrelated sample)

6.4.3
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Instrument Performance Check (DFTPP)

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: E6P1658-DFTPP	Injection Date: 03/27/17
Lab File ID: 6P35851.D	Injection Time: 10:14
Instrument ID: GCMS6P	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	6P35872.D	03/27/17	18:38	08:24	(unrelated sample)
ZZZZZZ	6P35874.D	03/27/17	19:25	09:11	(unrelated sample)
ZZZZZZ	6P35875.D	03/27/17	19:49	09:35	(unrelated sample)
JC39407-2	6P35877.D	03/27/17	20:36	10:22	SB-11 (0-2)

6.4.3
6

Instrument Performance Check (DFTPP)

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: E6P1659-DFTPP	Injection Date: 03/28/17
Lab File ID: 6P35888.D	Injection Time: 00:25
Instrument ID: GCMS6P	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	86441	54.6	Pass
68	Less than 2.0% of mass 69	909	0.57 (0.99) ^a	Pass
69	Mass 69 relative abundance	91921	58.1	Pass
70	Less than 2.0% of mass 69	387	0.24 (0.42) ^a	Pass
127	40.0 - 60.0% of mass 198	93901	59.3	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	158312	100.0	Pass
199	5.0 - 9.0% of mass 198	9813	6.20	Pass
275	10.0 - 30.0% of mass 198	42232	26.7	Pass
365	1.0 - 100.0% of mass 198	6866	4.34	Pass
441	Present, but less than mass 443	14618	9.23 (81.3) ^b	Pass
442	40.0 - 100.0% of mass 198	97325	61.5	Pass
443	17.0 - 23.0% of mass 442	17983	11.4 (18.5) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P1659-CC1656	6P35889.D	03/28/17	00:47	00:22	Continuing cal 25
E6P1659-CC1657	6P35890.D	03/28/17	01:11	00:46	Continuing cal 25
OP1438-MB1	6P35891.D	03/28/17	01:36	01:11	Method Blank
OP1438-BS1	6P35892.D	03/28/17	01:59	01:34	Blank Spike
OP1438-MS	6P35893.D	03/28/17	02:22	01:57	Matrix Spike
OP1438-MSD	6P35894.D	03/28/17	02:45	02:20	Matrix Spike Duplicate
JC39596-1	6P35895.D	03/28/17	03:08	02:43	(used for QC only; not part of job JC39407)
ZZZZZZ	6P35896.D	03/28/17	03:32	03:07	(unrelated sample)
ZZZZZZ	6P35897.D	03/28/17	03:55	03:30	(unrelated sample)
ZZZZZZ	6P35898.D	03/28/17	04:18	03:53	(unrelated sample)
ZZZZZZ	6P35899.D	03/28/17	04:41	04:16	(unrelated sample)
ZZZZZZ	6P35900.D	03/28/17	05:04	04:39	(unrelated sample)
ZZZZZZ	6P35901.D	03/28/17	05:27	05:02	(unrelated sample)
ZZZZZZ	6P35902.D	03/28/17	05:50	05:25	(unrelated sample)
ZZZZZZ	6P35903.D	03/28/17	06:13	05:48	(unrelated sample)
ZZZZZZ	6P35904.D	03/28/17	06:36	06:11	(unrelated sample)
ZZZZZZ	6P35905.D	03/28/17	06:59	06:34	(unrelated sample)
ZZZZZZ	6P35906.D	03/28/17	07:22	06:57	(unrelated sample)
ZZZZZZ	6P35907.D	03/28/17	07:45	07:20	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: E6P1659-DFTPP	Injection Date: 03/28/17
Lab File ID: 6P35888.D	Injection Time: 00:25
Instrument ID: GCMS6P	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	6P35908.D	03/28/17	08:08	07:43	(unrelated sample)
ZZZZZZ	6P35909.D	03/28/17	08:31	08:06	(unrelated sample)
ZZZZZZ	6P35910.D	03/28/17	08:54	08:29	(unrelated sample)
ZZZZZZ	6P35911.D	03/28/17	09:17	08:52	(unrelated sample)
ZZZZZZ	6P35912.D	03/28/17	09:40	09:15	(unrelated sample)
JC39407-4	6P35913.D	03/28/17	10:03	09:38	SB-13 (2-4)
JC39407-2	6P35914.D	03/28/17	10:26	10:01	SB-11 (0-2)
ZZZZZZ	6P35915A.D	03/28/17	11:04	10:39	(unrelated sample)
ZZZZZZ	6P35916.D	03/28/17	11:27	11:02	(unrelated sample)
JC39407-3	6P35917.D	03/28/17	11:50	11:25	SB-12 (0-2)

6.4.4

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Instrument Performance Check (DFTPP)

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: EM5684-DFTPP	Injection Date: 03/29/17
Lab File ID: M132728.D	Injection Time: 11:08
Instrument ID: GCMSM	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	45405	30.9	Pass
68	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
69	Mass 69 relative abundance	77231	52.5	Pass
70	Less than 2.0% of mass 69	408	0.28 (0.53) ^a	Pass
127	40.0 - 60.0% of mass 198	75685	51.5	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	146984	100.0	Pass
199	5.0 - 9.0% of mass 198	9887	6.73	Pass
275	10.0 - 30.0% of mass 198	32618	22.2	Pass
365	1.0 - 100.0% of mass 198	4185	2.85	Pass
441	Present, but less than mass 443	18458	12.6 (80.2) ^b	Pass
442	40.0 - 100.0% of mass 198	117610	80.0	Pass
443	17.0 - 23.0% of mass 442	23028	15.7 (19.6) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EM5684-IC5684	M132729.D	03/29/17	11:21	00:13	Initial cal 100
EM5684-IC5684	M132730.D	03/29/17	11:49	00:41	Initial cal 80
EM5684-ICC5684	M132731.D	03/29/17	12:18	01:10	Initial cal 50
EM5684-IC5684	M132732.D	03/29/17	12:46	01:38	Initial cal 25
EM5684-IC5684	M132733.D	03/29/17	13:15	02:07	Initial cal 10
EM5684-IC5684	M132734.D	03/29/17	13:43	02:35	Initial cal 5
EM5684-IC5684	M132735.D	03/29/17	14:12	03:04	Initial cal 2
EM5684-IC5684	M132736.D	03/29/17	14:40	03:32	Initial cal 1

6.4.5
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Instrument Performance Check (DFTPP)

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: EM5685-DFTPP	Injection Date: 03/29/17
Lab File ID: M132738.D	Injection Time: 16:01
Instrument ID: GCMSM	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	54651	34.6	Pass
68	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
69	Mass 69 relative abundance	93931	59.5	Pass
70	Less than 2.0% of mass 69	729	0.46 (0.78) ^a	Pass
127	40.0 - 60.0% of mass 198	85957	54.4	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	157904	100.0	Pass
199	5.0 - 9.0% of mass 198	11015	6.98	Pass
275	10.0 - 30.0% of mass 198	35680	22.6	Pass
365	1.0 - 100.0% of mass 198	4492	2.84	Pass
441	Present, but less than mass 443	23193	14.7 (80.7) ^b	Pass
442	40.0 - 100.0% of mass 198	146584	92.8	Pass
443	17.0 - 23.0% of mass 442	28751	18.2 (19.6) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EM5685-IC5685	M132739.D	03/29/17	16:27	00:26	Initial cal 100
EM5685-IC5685	M132740.D	03/29/17	16:56	00:55	Initial cal 80
EM5685-ICC5685	M132741.D	03/29/17	17:24	01:23	Initial cal 50
EM5685-ICV5685	M132742.D	03/29/17	17:53	01:52	Initial cal 25
EM5685-IC5685	M132743.D	03/29/17	18:21	02:20	Initial cal 10
EM5685-IC5685	M132744.D	03/29/17	18:50	02:49	Initial cal 5
EM5685-IC5685	M132745.D	03/29/17	19:19	03:18	Initial cal 2
EM5685-IC5685	M132746.D	03/29/17	19:47	03:46	Initial cal 1
EM5685-ICV5684	M132747.D	03/29/17	20:16	04:15	Initial cal verification 50
EM5685-ICV5685	M132749A.D	03/29/17	21:13	05:12	Initial cal verification 50
EM5685-ICV5684	M132749.D	03/29/17	21:13	05:12	Initial cal verification 50
EM5685-ICV5684	M132751.D	03/29/17	22:10	06:09	Initial cal verification 50
EM5685-ICV5685	M132752A.D	03/29/17	22:38	06:37	Initial cal verification 50
EM5685-ICV5684	M132752.D	03/29/17	22:38	06:37	Initial cal verification 50
EM5685-ICV5685	M132753.D	03/29/17	23:07	07:06	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: EM5686-DFTPP	Injection Date: 03/30/17
Lab File ID: M132754.D	Injection Time: 09:02
Instrument ID: GCMSM	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	42484	33.1	Pass
68	Less than 2.0% of mass 69	273	0.21 (0.37) ^a	Pass
69	Mass 69 relative abundance	73687	57.4	Pass
70	Less than 2.0% of mass 69	306	0.24 (0.42) ^a	Pass
127	40.0 - 60.0% of mass 198	67790	52.8	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	128373	100.0	Pass
199	5.0 - 9.0% of mass 198	9029	7.03	Pass
275	10.0 - 30.0% of mass 198	29008	22.6	Pass
365	1.0 - 100.0% of mass 198	3765	2.93	Pass
441	Present, but less than mass 443	17286	13.5 (80.6) ^b	Pass
442	40.0 - 100.0% of mass 198	111618	86.9	Pass
443	17.0 - 23.0% of mass 442	21456	16.7 (19.2) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EM5686-ICV5684	M132755.D	03/30/17	09:47	00:45	Initial cal verification 50
EM5686-ICV5685	M132756A.D	03/30/17	10:15	01:13	Initial cal verification 50
EM5686-ICV5684	M132756.D	03/30/17	10:15	01:13	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: EM5687-DFTPP	Injection Date: 03/30/17
Lab File ID: M132757.D	Injection Time: 11:11
Instrument ID: GCMSM	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	43952	34.6	Pass
68	Less than 2.0% of mass 69	677	0.53 (0.88) ^a	Pass
69	Mass 69 relative abundance	76985	60.6	Pass
70	Less than 2.0% of mass 69	51	0.04 (0.07) ^a	Pass
127	40.0 - 60.0% of mass 198	68832	54.2	Pass
197	Less than 1.0% of mass 198	73	0.06	Pass
198	Base peak, 100% relative abundance	126962	100.0	Pass
199	5.0 - 9.0% of mass 198	8747	6.89	Pass
275	10.0 - 30.0% of mass 198	27742	21.9	Pass
365	1.0 - 100.0% of mass 198	3233	2.55	Pass
441	Present, but less than mass 443	16411	12.9 (81.9) ^b	Pass
442	40.0 - 100.0% of mass 198	102451	80.7	Pass
443	17.0 - 23.0% of mass 442	20042	15.8 (19.6) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EM5687-CC5684	M132758.D	03/30/17	11:23	00:12	Continuing cal 50
EM5687-CC5685	M132759.D	03/30/17	11:52	00:41	Continuing cal 50
OP1507-MB1	M132761.D	03/30/17	12:51	01:40	Method Blank
OP1507-BS1	M132762.D	03/30/17	13:20	02:09	Blank Spike
OP1472-MB1	M132763.D	03/30/17	13:48	02:37	Method Blank
OP1472-BS1	M132764.D	03/30/17	14:16	03:05	Blank Spike
OP1411-MB1	M132783.D	03/30/17	14:44	03:33	Method Blank
ZZZZZZ	M132784.D	03/30/17	15:12	04:01	(unrelated sample)
JC39407-4	M132765.D	03/30/17	15:40	04:29	SB-13 (2-4)
JC38764-34	M132768.D	03/30/17	16:09	04:58	(used for QC only; not part of job JC39407)
ZZZZZZ	M132769.D	03/30/17	16:37	05:26	(unrelated sample)
OP1507-MS	M132766.D	03/30/17	17:05	05:54	Matrix Spike
ZZZZZZ	M132785.D	03/30/17	17:33	06:22	(unrelated sample)
OP1507-MSD	M132767.D	03/30/17	18:02	06:51	Matrix Spike Duplicate
OP1472-MS	M132770.D	03/30/17	18:30	07:19	Matrix Spike
OP1472-MSD	M132771.D	03/30/17	18:58	07:47	Matrix Spike Duplicate
JC39411-1	M132772.D	03/30/17	19:27	08:16	(used for QC only; not part of job JC39407)
ZZZZZZ	M132773.D	03/30/17	19:55	08:44	(unrelated sample)
ZZZZZZ	M132774.D	03/30/17	20:23	09:12	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: EM5687-DFTPP	Injection Date: 03/30/17
Lab File ID: M132757.D	Injection Time: 11:11
Instrument ID: GCMSM	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	M132775.D	03/30/17	20:52	09:41	(unrelated sample)
ZZZZZZ	M132776.D	03/30/17	21:20	10:09	(unrelated sample)
ZZZZZZ	M132777.D	03/30/17	21:48	10:37	(unrelated sample)
ZZZZZZ	M132778.D	03/30/17	22:16	11:05	(unrelated sample)
ZZZZZZ	M132779.D	03/30/17	22:45	11:34	(unrelated sample)

6.4.8

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Instrument Performance Check (DFTPP)

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: EP4983-DFTPP	Injection Date: 03/08/17
Lab File ID: P111901.D	Injection Time: 13:06
Instrument ID: GCMSP	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	31284	41.1	Pass
68	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
69	Mass 69 relative abundance	36834	48.3	Pass
70	Less than 2.0% of mass 69	313	0.41 (0.85) ^a	Pass
127	40.0 - 60.0% of mass 198	44437	58.3	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	76197	100.0	Pass
199	5.0 - 9.0% of mass 198	5424	7.12	Pass
275	10.0 - 30.0% of mass 198	17741	23.3	Pass
365	1.0 - 100.0% of mass 198	1816	2.38	Pass
441	Present, but less than mass 443	6163	8.09 (76.5) ^b	Pass
442	40.0 - 100.0% of mass 198	39563	51.9	Pass
443	17.0 - 23.0% of mass 442	8056	10.6 (20.4) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4983-IC4983	P111902.D	03/08/17	13:18	00:12	Initial cal 1
EP4983-IC4983	P111903.D	03/08/17	13:47	00:41	Initial cal 100
EP4983-IC4983	P111904.D	03/08/17	14:17	01:11	Initial cal 80
EP4983-ICC4983	P111905.D	03/08/17	14:46	01:40	Initial cal 50
EP4983-IC4983	P111906.D	03/08/17	15:15	02:09	Initial cal 25
EP4983-IC4983	P111907.D	03/08/17	15:44	02:38	Initial cal 10
EP4983-IC4983	P111908.D	03/08/17	16:13	03:07	Initial cal 5
EP4983-IC4983	P111909.D	03/08/17	16:42	03:36	Initial cal 2

6.4.9
6

Instrument Performance Check (DFTPP)

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: EP4984-DFTPP	Injection Date: 03/08/17
Lab File ID: P111910.D	Injection Time: 17:14
Instrument ID: GCMSP	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	31232	39.0	Pass
68	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
69	Mass 69 relative abundance	36733	45.8	Pass
70	Less than 2.0% of mass 69	263	0.33 (0.72) ^a	Pass
127	40.0 - 60.0% of mass 198	44925	56.0	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	80157	100.0	Pass
199	5.0 - 9.0% of mass 198	5600	6.99	Pass
275	10.0 - 30.0% of mass 198	19240	24.0	Pass
365	1.0 - 100.0% of mass 198	2045	2.55	Pass
441	Present, but less than mass 443	7453	9.30 (80.7) ^b	Pass
442	40.0 - 100.0% of mass 198	46498	58.0	Pass
443	17.0 - 23.0% of mass 442	9238	11.5 (19.9) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4984-IC4984	P111911.D	03/08/17	17:27	00:13	Initial cal 100
EP4984-IC4984	P111912.D	03/08/17	17:56	00:42	Initial cal 80
EP4984-ICC4984	P111913.D	03/08/17	18:25	01:11	Initial cal 50
EP4984-IC4984	P111914.D	03/08/17	18:54	01:40	Initial cal 25
EP4984-IC4984	P111915.D	03/08/17	19:23	02:09	Initial cal 10
EP4984-IC4984	P111916.D	03/08/17	19:52	02:38	Initial cal 5
EP4984-IC4984	P111917.D	03/08/17	20:21	03:07	Initial cal 2
EP4984-IC4984	P111918.D	03/08/17	20:50	03:36	Initial cal 1
EP4984-ICV4983	P111919.D	03/08/17	21:19	04:05	Initial cal verification 50
EP4984-ICV4984	P111919A.D	03/08/17	21:19	04:05	Initial cal verification 50
EP4984-ICV4984	P111920A.D	03/08/17	21:48	04:34	Initial cal verification 50
EP4984-ICV4983	P111920.D	03/08/17	21:48	04:34	Initial cal verification 50
EP4984-ICV4983	P111921.D	03/08/17	22:17	05:03	Initial cal verification 50
EP4984-ICV4983	P111922.D	03/08/17	22:46	05:32	Initial cal verification 50
EP4984-ICV4983	P111923.D	03/08/17	23:15	06:01	Initial cal verification 50
EP4984-ICV4984	P111925.D	03/09/17	00:13	06:59	Initial cal verification 50

6.4.10
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Instrument Performance Check (DFTPP)

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: EP4985-DFTPP	Injection Date: 03/09/17
Lab File ID: P111926.D	Injection Time: 00:38
Instrument ID: GCMSP	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	29856	38.7	Pass
68	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
69	Mass 69 relative abundance	34325	44.5	Pass
70	Less than 2.0% of mass 69	160	0.21 (0.47) ^a	Pass
127	40.0 - 60.0% of mass 198	43098	55.9	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	77053	100.0	Pass
199	5.0 - 9.0% of mass 198	5411	7.02	Pass
275	10.0 - 30.0% of mass 198	18954	24.6	Pass
365	1.0 - 100.0% of mass 198	2036	2.64	Pass
441	Present, but less than mass 443	7573	9.83 (78.9) ^b	Pass
442	40.0 - 100.0% of mass 198	48458	62.9	Pass
443	17.0 - 23.0% of mass 442	9602	12.5 (19.8) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4985-IC4985	P111927.D	03/09/17	00:51	00:13	Initial cal 100
EP4985-IC4985	P111928.D	03/09/17	01:20	00:42	Initial cal 80
EP4985-ICC4985	P111929.D	03/09/17	01:49	01:11	Initial cal 50
EP4985-IC4985	P111930.D	03/09/17	02:18	01:40	Initial cal 25
EP4985-IC4985	P111931.D	03/09/17	02:47	02:09	Initial cal 10
EP4985-IC4985	P111932.D	03/09/17	03:16	02:38	Initial cal 5
EP4985-IC4985	P111933.D	03/09/17	03:45	03:07	Initial cal 2
EP4985-IC4985	P111934.D	03/09/17	04:14	03:36	Initial cal 1
EP4985-ICV4983	P111935A.D	03/09/17	04:44	04:06	Initial cal verification 50
EP4985-ICV4985	P111935.D	03/09/17	04:44	04:06	Initial cal verification 50
EP4985-ICV4985	P111936.D	03/09/17	05:13	04:35	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: EP4987-DFTPP	Injection Date: 03/09/17
Lab File ID: P111948.D	Injection Time: 10:35
Instrument ID: GCMSP	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	25009	32.7	Pass
68	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
69	Mass 69 relative abundance	30330	39.6	Pass
70	Less than 2.0% of mass 69	171	0.22 (0.56) ^a	Pass
127	40.0 - 60.0% of mass 198	40480	52.9	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	76496	100.0	Pass
199	5.0 - 9.0% of mass 198	5386	7.04	Pass
275	10.0 - 30.0% of mass 198	20079	26.2	Pass
365	1.0 - 100.0% of mass 198	2199	2.87	Pass
441	Present, but less than mass 443	8697	11.4 (78.0) ^b	Pass
442	40.0 - 100.0% of mass 198	55610	72.7	Pass
443	17.0 - 23.0% of mass 442	11144	14.6 (20.0) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP4987-IC4987	P111949.D	03/09/17	10:48	00:13	Initial cal 100
EP4987-IC4987	P111950.D	03/09/17	11:17	00:42	Initial cal 80
EP4987-ICC4987	P111951.D	03/09/17	11:46	01:11	Initial cal 50
EP4987-IC4987	P111952.D	03/09/17	12:15	01:40	Initial cal 25
EP4987-IC4987	P111953.D	03/09/17	12:44	02:09	Initial cal 10
EP4987-IC4987	P111954.D	03/09/17	13:14	02:39	Initial cal 5
EP4987-IC4987	P111955.D	03/09/17	13:43	03:08	Initial cal 2
EP4987-IC4987	P111956.D	03/09/17	14:12	03:37	Initial cal 1
EP4987-ICV4985	P111957.D	03/09/17	14:41	04:06	Initial cal verification 50
EP4987-ICV4983	P111957A.D	03/09/17	14:41	04:06	Initial cal verification 50
EP4987-ICV4986	P111958.D	03/09/17	15:10	04:35	Initial cal verification 50
EP4987-ICV4987	P111959.D	03/09/17	15:39	05:04	Initial cal verification 50
EP4987-ICV4983	P111960A.D	03/09/17	16:09	05:34	Initial cal verification 50
EP4987-ICV4984	P111960.D	03/09/17	16:09	05:34	Initial cal verification 50

6.4.12
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Instrument Performance Check (DFTPP)

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: EP5013-DFTPP	Injection Date: 03/28/17
Lab File ID: P112431.D	Injection Time: 22:30
Instrument ID: GCMSP	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	51123	30.2	Pass
68	Less than 2.0% of mass 69	0	0.00 (0.00) ^a	Pass
69	Mass 69 relative abundance	60881	35.9	Pass
70	Less than 2.0% of mass 69	480	0.28 (0.79) ^a	Pass
127	40.0 - 60.0% of mass 198	83738	49.4	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	169493	100.0	Pass
199	5.0 - 9.0% of mass 198	11860	7.00	Pass
275	10.0 - 30.0% of mass 198	48600	28.7	Pass
365	1.0 - 100.0% of mass 198	4919	2.90	Pass
441	Present, but less than mass 443	22230	13.1 (77.8) ^b	Pass
442	40.0 - 100.0% of mass 198	143362	84.6	Pass
443	17.0 - 23.0% of mass 442	28563	16.9 (19.9) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EP5013-CC4983	P112432.D	03/28/17	22:51	00:21	Continuing cal 25
EP5013-CC4984	P112433.D	03/28/17	23:20	00:50	Continuing cal 25
OP1427-MB1	P112436.D	03/29/17	00:59	02:29	Method Blank
OP1427-BS1	P112437.D	03/29/17	01:28	02:58	Blank Spike
JC39372-1	P112438.D	03/29/17	04:39	06:09	(used for QC only; not part of job JC39407)
JC39407-1	P112439.D	03/29/17	05:08	06:38	SB-10 (0-2)
ZZZZZZ	P112440.D	03/29/17	05:37	07:07	(unrelated sample)
OP1427-MS	P112441.D	03/29/17	06:06	07:36	Matrix Spike
OP1427-MSD	P112442.D	03/29/17	06:35	08:05	Matrix Spike Duplicate

6.4.13
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Semivolatiles Surrogate Recovery Summary

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Method: SW846 8270D	Matrix: SO
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JC39407-1	P112439.D	73	76	68	71	77	76
JC39407-2	6P35877.D	86	81	104	81	89	80
JC39407-2	6P35914.D	76	63	84	73	75	76
JC39407-3	6P35917.D	79	74	97	82	89	96
JC39407-4	M132765.D	65	56	44	9* ^a	70	69
JC39407-4	6P35913.D	60	58	70	12* ^b	81	85
OP1361-BS1	6P35855.D	92	88	96	86	83	91
OP1361-MB1	6P35854.D	96	87	82	89	84	96
OP1361-MS	6P35856.D	76	76	94	75	81	91
OP1361-MSD	6P35857.D	70	72	87	68	73	84
OP1427-BS1	P112437.D	91	86	108	70	83	99
OP1427-MB1	P112436.D	87	91	106	82	90	86
OP1427-MS	P112441.D	81	83	97	66	79	86
OP1427-MSD	P112442.D	68	67	83	56	70	74
OP1472-BS1	M132764.D	95	92	104	89	87	101
OP1472-MB1	M132763.D	84	84	100	84	85	97
OP1472-MS	M132770.D	63	66	94	67	69	76
OP1472-MSD	M132771.D	69	67	82	73	69	69

Surrogate Compounds	Recovery Limits
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S1 = 2-Fluorophenol	23-115%
S2 = Phenol-d5	27-114%
S3 = 2,4,6-Tribromophenol	19-152%
S4 = Nitrobenzene-d5	26-134%
S5 = 2-Fluorobiphenyl	39-124%
S6 = Terphenyl-d14	36-134%

- (a) Outside control limits due to matrix interference. Confirmed by re-extraction.
- (b) Outside control limits due to matrix interference.

6.5.1
6

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1371-MB1	XX207033.D	1	03/26/17	HB	03/24/17	OP1371	GXX5975

The QC reported here applies to the following samples:

Method: SW846 8082A

JC39407-1, JC39407-2, JC39407-3, JC39407-4

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	16	ug/kg	
11104-28-2	Aroclor 1221	ND	33	16	ug/kg	
11141-16-5	Aroclor 1232	ND	33	13	ug/kg	
53469-21-9	Aroclor 1242	ND	33	12	ug/kg	
12672-29-6	Aroclor 1248	ND	33	21	ug/kg	
11097-69-1	Aroclor 1254	ND	33	17	ug/kg	
11096-82-5	Aroclor 1260	ND	33	14	ug/kg	
11100-14-4	Aroclor 1268	ND	33	12	ug/kg	
37324-23-5	Aroclor 1262	ND	33	23	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
877-09-8	Tetrachloro-m-xylene	108%	24-152%
877-09-8	Tetrachloro-m-xylene	116%	24-152%
2051-24-3	Decachlorobiphenyl	90%	10-166%
2051-24-3	Decachlorobiphenyl	102%	10-166%

7.1.1
7

Blank Spike Summary

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1371-BS1	XX207034.D	1	03/26/17	HB	03/24/17	OP1371	GXX5975

The QC reported here applies to the following samples:

Method: SW846 8082A

JC39407-1, JC39407-2, JC39407-3, JC39407-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	133	151	113	61-146
11104-28-2	Aroclor 1221		ND		70-130
11141-16-5	Aroclor 1232		ND		70-130
53469-21-9	Aroclor 1242		ND		70-130
12672-29-6	Aroclor 1248		ND		70-130
11097-69-1	Aroclor 1254		ND		70-130
11096-82-5	Aroclor 1260	133	152	114 ^a	62-148
11100-14-4	Aroclor 1268		ND		50-150 ^b
37324-23-5	Aroclor 1262		ND		50-150 ^b

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	103%	24-152%
877-09-8	Tetrachloro-m-xylene	113%	24-152%
2051-24-3	Decachlorobiphenyl	96%	10-166%
2051-24-3	Decachlorobiphenyl	108%	10-166%

(a) Reported from 2nd signal. %D of check calibration on 1st signal exceed method criteria (20%) so using for confirmation only.

(b) Advisory control limits.

* = Outside of Control Limits.

7.2.1
 7

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC39407
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1371-MS	XX207044.D	1	03/26/17	HB	03/24/17	OP1371	GXX5975
OP1371-MSD	XX207045.D	1	03/26/17	HB	03/24/17	OP1371	GXX5975
JC39408-4	XX207043.D	1	03/26/17	HB	03/24/17	OP1371	GXX5975

The QC reported here applies to the following samples:

Method: SW846 8082A

JC39407-1, JC39407-2, JC39407-3, JC39407-4

CAS No.	Compound	JC39408-4 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND	136	111	82	149	120	81	8	24-178/46
11104-28-2	Aroclor 1221	ND		ND			ND		nc	70-130/50
11141-16-5	Aroclor 1232	ND		ND			ND		nc	70-130/50
53469-21-9	Aroclor 1242	ND		ND			ND		nc	70-130/50
12672-29-6	Aroclor 1248	ND		ND			ND		nc	70-130/50
11097-69-1	Aroclor 1254	ND		ND			ND		nc	70-130/50
11096-82-5	Aroclor 1260	ND	136	178	131	149	190	128	7	15-185/45
11100-14-4	Aroclor 1268	ND		ND			ND		nc	-/50
37324-23-5	Aroclor 1262	ND		ND			ND		nc	-/50

CAS No.	Surrogate Recoveries	MS	MSD	JC39408-4	Limits
877-09-8	Tetrachloro-m-xylene	87%	92%	87%	24-152%
877-09-8	Tetrachloro-m-xylene	101%	95%	89%	24-152%
2051-24-3	Decachlorobiphenyl	93%	103%	78%	10-166%
2051-24-3	Decachlorobiphenyl	113%	131%	102%	10-166%

* = Outside of Control Limits.

7.3.1
7

Semivolatle Surrogate Recovery Summary

Job Number: JC39407

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Method: SW846 8082A	Matrix: SO
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 ^a	S1 ^b	S2 ^a	S2 ^b
JC39407-1	XX207035.D	87	103	95	101
JC39407-2	XX207040.D	95	102	141	168* ^c
JC39407-3	XX207041.D	92	113	77	109
JC39407-4	XX207042.D	121	88	102	141
OP1371-BS1	XX207034.D	103	113	96	108
OP1371-MB1	XX207033.D	108	116	90	102
OP1371-MS	XX207044.D	87	101	93	113
OP1371-MSD	XX207045.D	92	95	103	131

Surrogate Compounds **Recovery Limits**

S1 = Tetrachloro-m-xylene	24-152%
S2 = Decachlorobiphenyl	10-166%

- (a) Recovery from GC signal #1
- (b) Recovery from GC signal #2
- (c) Outside control limits due to matrix interference.

7.4.1
7

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC39407
Account: EBIMAB - EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99446
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 03/24/17

Metal	RL	IDL	MDL	MB raw	final
Aluminum	51	1.1	2		
Antimony	2.0	.26	.3	0.071	<2.0
Arsenic	2.0	.22	.22	-0.071	<2.0
Barium	20	.02	.083		
Beryllium	0.20	.01	.022	0.020	<0.20
Bismuth	2.0	.21	.24		
Boron	10	.19	.46		
Cadmium	0.51	.031	.051	-0.010	<0.51
Calcium	510	3.3	1.9		
Chromium	1.0	.031	.12	0.31	<1.0
Cobalt	5.1	.041	.06		
Copper	2.6	.24	.22	0.041	<2.6
Iron	51	.44	.81		
Lead	2.0	.2	.23	-0.10	<2.0
Lithium	2.0	.2	.46		
Magnesium	510	3.5	6		
Manganese	1.5	.01	.037		
Molybdenum	2.0	.041	.083		
Nickel	4.1	.061	.078	0.071	<4.1
Palladium	5.1	.2	.48		
Phosphorus	10	.32	.48		
Potassium	1000	3.6	19		
Selenium	2.0	.52	.47	0.051	<2.0
Silicon	20	.58	3.8		
Silver	0.51	.041	.1	-0.031	<0.51
Sodium	1000	2.2	4		
Strontium	1.0	.01	.024		
Sulfur	5.1	.67	.6		
Thallium	1.0	.19	.41	0.031	<1.0
Tin	5.1	.2	.54		
Titanium	1.0	.041	.13		
Tungsten	5.1	.17	.34		
Vanadium	5.1	.031	.085		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC39407
Account: EBIMAB - EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99446
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 03/24/17

Metal	RL	IDL	MDL	MB	
				raw	final
Zinc	5.1	.31	.22	0.97	<5.1
Zirconium	2.0	.02	.13		

Associated samples MP99446: JC39407-1, JC39407-2, JC39407-3, JC39407-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.1.1
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC39407
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99446
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 03/24/17

Metal	JC39407-1 Original MS		SpikeLot MPSPK2	% Rec	QC Limits
Aluminum					
Antimony	0.0	135	207	65.1N(a)	75-125
Arsenic	4.9	193	207	90.8	75-125
Barium					
Beryllium	0.38	195	207	93.9	75-125
Bismuth					
Boron					
Cadmium	0.26	193	207	93.0	75-125
Calcium					
Chromium	24.6	210	207	89.5	75-125
Cobalt					
Copper	31.2	408	207	181.8N(a)	75-125
Iron					
Lead	100	298	207	95.5	75-125
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel	19.1	213	207	93.6	75-125
Palladium					
Phosphorus					
Potassium					
Selenium	0.0	191	207	92.2	75-125
Silicon					
Silver	0.31	24.8	25.9	94.5	75-125
Sodium					
Strontium					
Sulfur					
Thallium	0.23	192	207	92.5	75-125
Tin					
Titanium					
Tungsten					
Vanadium					

8.12
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC39407
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99446
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 03/24/17

Metal	JC39407-1 Original MS	Spikelot MPSPK2	% Rec	QC Limits
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Zinc 88.4 277 207 91.0 75-125

Zirconium

Associated samples MP99446: JC39407-1, JC39407-2, JC39407-3, JC39407-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

8.12
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC39407
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99446
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 03/24/17

Metal	JC39407-1 Original MSD		SpikeLot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	0.0	133	211	62.9N(a)	1.5	20
Arsenic	4.9	198	211	91.4	2.6	20
Barium						
Beryllium	0.38	198	211	93.5	1.5	20
Bismuth						
Boron						
Cadmium	0.26	196	211	92.6	1.5	20
Calcium						
Chromium	24.6	224	211	94.4	6.5	20
Cobalt						
Copper	31.2	315	211	134.3N(a)	25.7 (b)	20
Iron						
Lead	100	352	211	119.3	16.6	20
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel	19.1	223	211	96.5	4.6	20
Palladium						
Phosphorus						
Potassium						
Selenium	0.0	194	211	91.8	1.6	20
Silicon						
Silver	0.31	25.2	26.4	94.2	1.6	20
Sodium						
Strontium						
Sulfur						
Thallium	0.23	190	211	89.8	1.0	20
Tin						
Titanium						
Tungsten						
Vanadium						

8.12
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC39407
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99446
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 03/24/17

Metal	JC39407-1 Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
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Zinc 88.4 1230 211 540.3N(a) 126.5 (b)20

Zirconium

Associated samples MP99446: JC39407-1, JC39407-2, JC39407-3, JC39407-4

Results < IDL are shown as zero for calculation purposes

- (*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested
- (a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- (b) High rpd due to possible sample nonhomogeneity.

8.12
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC39407
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99446
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 03/24/17

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum				
Antimony	183	196	93.3	80-120
Arsenic	181	196	92.3	80-120
Barium				
Beryllium	194	196	98.9	80-120
Bismuth				
Boron				
Cadmium	183	196	93.3	80-120
Calcium				
Chromium	188	196	95.9	80-120
Cobalt				
Copper	187	196	95.4	80-120
Iron				
Lead	191	196	97.4	80-120
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel	191	196	97.4	80-120
Palladium				
Phosphorus				
Potassium				
Selenium	181	196	92.3	80-120
Silicon				
Silver	22.9	24.5	93.4	80-120
Sodium				
Strontium				
Sulfur				
Thallium	193	196	98.4	80-120
Tin				
Titanium				
Tungsten				
Vanadium				

8.1.3
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC39407
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99446
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 03/24/17

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
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Zinc	184	196	93.8	80-120
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Zirconium

Associated samples MP99446: JC39407-1, JC39407-2, JC39407-3, JC39407-4

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

8.1.3

8

SERIAL DILUTION RESULTS SUMMARY

Login Number: JC39407
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99446
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: ug/l

Prep Date: 03/24/17

Metal	JC39407-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	0.00	0.00	NC	0-10
Arsenic	46.7	44.4	4.9	0-10
Barium				
Beryllium	3.60	3.00	16.7 (a)	0-10
Bismuth				
Boron				
Cadmium	2.50	0.00	100.0(a)	0-10
Chromium	233	251	7.8	0-10
Cobalt				
Copper	296	298	0.6	0-10
Iron				
Lead	947	971	2.5	0-10
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel	181	181	0.4	0-10
Palladium				
Phosphorus				
Potassium				
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	2.90	3.80	31.0 (a)	0-10
Sodium				
Strontium				
Sulfur				
Thallium	2.20	0.00	100.0(a)	0-10
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc	837	917	9.6	0-10

8.1.4
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: JC39407
Account: EBIMAB - EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99446
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/24/17

	JC39407-1	QC
Metal	Original SDL 1:5 %DIF	Limits

Zirconium

Associated samples MP99446: JC39407-1, JC39407-2, JC39407-3, JC39407-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

8.1.4

8

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC39407
Account: EBIMAB - EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99495
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 03/27/17

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.0018	.0053	0.0091	<0.033

Associated samples MP99495: JC39407-1, JC39407-2, JC39407-3, JC39407-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC39407
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99495
 Matrix Type: SOLID

Methods: SW846 7471B
 Units: mg/kg

Prep Date: 03/27/17

Metal	JC39432-1 Original MS	SpikeLot HGPWS1	% Rec	QC Limits
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Mercury 0.0073 0.28 0.331 82.3 80-120

Associated samples MP99495: JC39407-1, JC39407-2, JC39407-3, JC39407-4

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

8.2.2
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC39407
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99495 Methods: SW846 7471B
 Matrix Type: SOLID Units: mg/kg

Prep Date: 03/27/17 03/27/17

Metal	JC39432-1 Original MSD	SpikeLot HGPWS1	% Rec	MSD RPD	QC Limit	JC39432-1 Original DUP	RPD	QC Limits
Mercury	0.0073	0.29	0.332	85.1	3.5	20	0.0073 0.0052	33.6 (a) 0-20

Associated samples MP99495: JC39407-1, JC39407-2, JC39407-3, JC39407-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) RPD acceptable due to low duplicate and sample concentrations.

8.2.2
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC39407
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99495
 Matrix Type: SOLID

Methods: SW846 7471B
 Units: mg/kg

Prep Date: 03/27/17 03/27/17

Metal	BSP Result	Spikelot HGPWS1	% Rec	QC Limits	LCS Result	Spikelot HGLCS54085%	QC Limits
Mercury	0.31	0.333	93.1	80-120	8.9	8.37	106.3

Associated samples MP99495: JC39407-1, JC39407-2, JC39407-3, JC39407-4

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

8.2.3

8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC39407
Account: EBIMAB - EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99495
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 03/27/17

Metal	LCS Result	Spikelot HGLCS54085% Rec	QC Limits
Mercury	9.1	8.37	108.7 73-128

Associated samples MP99495: JC39407-1, JC39407-2, JC39407-3, JC39407-4

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.2.3

8

Technical Report for

EBI Consulting

1217000088, 159-161 Alexander Street, Yonkers, NY

SGS Accutest Job Number: JC39408

Sampling Date: 03/21/17

Report to:

EBI Consulting
21 B Street
Burlington, MA 01803
Bshaw@ebiconsulting.com

ATTN: Bryan Shaw

Total number of pages in report: **249**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Victoria Pushkova 732-329-0200

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Test results relate only to samples analyzed.

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Sample Summary

EBI Consulting

Job No: JC39408

1217000088, 159-161 Alexander Street, Yonkers, NY

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JC39408-1	03/21/17	11:00 BS	03/22/17	SO	Soil	SB-1 (0-2)
JC39408-2	03/21/17	11:15 BS	03/22/17	SO	Soil	SB-1 (4.5-6.5)
JC39408-3	03/21/17	11:05 BS	03/22/17	SO	Soil	SB-1 (6.5-7)
JC39408-4	03/21/17	12:30 BS	03/22/17	SO	Soil	SB-2 (2-4)
JC39408-5	03/21/17	12:45 BS	03/22/17	SO	Soil	SB-3 (4-6)
JC39408-6	03/21/17	13:00 BS	03/22/17	SO	Soil	SB-4 (2-4)
JC39408-7	03/21/17	14:30 BS	03/22/17	SO	Soil	SB-5 (2.5-4.5)
JC39408-8	03/21/17	13:45 BS	03/22/17	SO	Soil	SB-6 (5-7)
JC39408-9	03/21/17	17:00 BS	03/22/17	SO	Soil	SB-7 (5-8)
JC39408-10	03/21/17	19:00 BS	03/22/17	SO	Soil	SB-8 (4-4.5)
JC39408-11	03/21/17	19:10 BS	03/22/17	SO	Soil	SB-8 (5-7)
JC39408-12	03/21/17	19:15 BS	03/22/17	SO	Soil	SB-9 (2-4)
JC39408-13	03/21/17	11:30 BS	03/22/17	AQ	Ground Water	SB-2

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary

(continued)

EBI Consulting

Job No: JC39408

1217000088, 159-161 Alexander Street, Yonkers, NY

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
JC39408-13F	03/21/17	11:30 BS	03/22/17	AQ	Groundwater Filtered	SB-2
JC39408-14	03/21/17	11:50 BS	03/22/17	AQ	Ground Water	SB-3
JC39408-14F	03/21/17	11:50 BS	03/22/17	AQ	Groundwater Filtered	SB-3
JC39408-15	03/21/17	13:30 BS	03/22/17	AQ	Ground Water	SB-4
JC39408-15F	03/21/17	13:30 BS	03/22/17	AQ	Groundwater Filtered	SB-4
JC39408-16	03/21/17	16:00 BS	03/22/17	AQ	Ground Water	SB-6
JC39408-16F	03/21/17	16:00 BS	03/22/17	AQ	Groundwater Filtered	SB-6
JC39408-17	03/21/17	16:30 BS	03/22/17	AQ	Ground Water	SB-7
JC39408-17F	03/21/17	16:30 BS	03/22/17	AQ	Groundwater Filtered	SB-7
JC39408-18	03/21/17	17:30 BS	03/22/17	AQ	Ground Water	SB-8
JC39408-18F	03/21/17	17:30 BS	03/22/17	AQ	Groundwater Filtered	SB-8

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: JC39408
Account: EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY
Collected: 03/21/17

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method	
JC39408-1	SB-1 (0-2)						
		Acetone ^a	9.2 J	10	5.0	ug/kg	SW846 8260C
		Acetophenone	14.6 J	180	7.6	ug/kg	SW846 8270D
		Benzo(a)anthracene	70.1	35	10	ug/kg	SW846 8270D
		Benzo(a)pyrene	38.3	35	16	ug/kg	SW846 8270D
		Benzo(b)fluoranthene	102	35	16	ug/kg	SW846 8270D
		Benzo(g,h,i)perylene	32.4 J	35	18	ug/kg	SW846 8270D
		Benzo(k)fluoranthene	25.4 J	35	17	ug/kg	SW846 8270D
		1,1'-Biphenyl	73.5	71	4.9	ug/kg	SW846 8270D
		Chrysene	211	35	11	ug/kg	SW846 8270D
		Dibenzo(a,h)anthracene	20.5 J	35	16	ug/kg	SW846 8270D
		Dibenzofuran	28.2 J	71	14	ug/kg	SW846 8270D
		bis(2-Ethylhexyl)phthalate	84.6	71	8.3	ug/kg	SW846 8270D
		Fluoranthene	111	35	16	ug/kg	SW846 8270D
		Indeno(1,2,3-cd)pyrene	28.2 J	35	17	ug/kg	SW846 8270D
		2-Methylnaphthalene	229	71	8.0	ug/kg	SW846 8270D
		Naphthalene	120	35	10	ug/kg	SW846 8270D
		Phenanthrene	236	35	12	ug/kg	SW846 8270D
		Pyrene	104	35	11	ug/kg	SW846 8270D
		Arsenic	10.3	2.2		mg/kg	SW846 6010C
		Beryllium	0.55	0.22		mg/kg	SW846 6010C
		Chromium	17.8	1.1		mg/kg	SW846 6010C
		Copper	47.7	2.7		mg/kg	SW846 6010C
		Lead	38.7	2.2		mg/kg	SW846 6010C
		Mercury	0.42	0.035		mg/kg	SW846 7471B
		Nickel	23.8	4.3		mg/kg	SW846 6010C
		Zinc	29.2	5.4		mg/kg	SW846 6010C
JC39408-2	SB-1 (4.5-6.5)						
		Acetone ^a	16.8	10	5.2	ug/kg	SW846 8260C
		Acenaphthene	18.4 J	38	13	ug/kg	SW846 8270D
		Acenaphthylene	49.1	38	19	ug/kg	SW846 8270D
		Anthracene	64.6	38	23	ug/kg	SW846 8270D
		Benzo(a)anthracene	456	38	11	ug/kg	SW846 8270D
		Benzo(a)pyrene	259	38	17	ug/kg	SW846 8270D
		Benzo(b)fluoranthene	716	38	17	ug/kg	SW846 8270D
		Benzo(g,h,i)perylene	179	38	19	ug/kg	SW846 8270D
		Benzo(k)fluoranthene	242	38	18	ug/kg	SW846 8270D
		1,1'-Biphenyl	27.1 J	76	5.2	ug/kg	SW846 8270D
		Carbazole	28.1 J	76	5.5	ug/kg	SW846 8270D
		Chrysene	796	38	12	ug/kg	SW846 8270D
		Dibenzo(a,h)anthracene	83.3	38	17	ug/kg	SW846 8270D
		Dibenzofuran	57.1 J	76	15	ug/kg	SW846 8270D

Summary of Hits

Job Number: JC39408
Account: EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY
Collected: 03/21/17

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
bis(2-Ethylhexyl)phthalate		87.2	76	8.9	ug/kg	SW846 8270D
Fluoranthene		875	38	17	ug/kg	SW846 8270D
Fluorene		22.6 J	38	17	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		170	38	18	ug/kg	SW846 8270D
2-Methylnaphthalene		67.4 J	76	8.6	ug/kg	SW846 8270D
Naphthalene		199	38	11	ug/kg	SW846 8270D
Phenanthrene		467	38	13	ug/kg	SW846 8270D
Pyrene		720	38	12	ug/kg	SW846 8270D
Arsenic		10.8	2.3		mg/kg	SW846 6010C
Beryllium		0.23	0.23		mg/kg	SW846 6010C
Chromium		10.9	1.1		mg/kg	SW846 6010C
Copper		112	2.8		mg/kg	SW846 6010C
Lead		145	2.3		mg/kg	SW846 6010C
Mercury		1.3	0.069		mg/kg	SW846 7471B
Nickel		17.2	4.5		mg/kg	SW846 6010C
Zinc		84.2	5.7		mg/kg	SW846 6010C

JC39408-3 SB-1 (6.5-7)

No hits reported in this sample.

JC39408-4 SB-2 (2-4)

Benzene		0.23 J	0.53	0.13	ug/kg	SW846 8260C
Tetrachloroethene		0.50 J	2.1	0.30	ug/kg	SW846 8260C
Acenaphthene		58.7	38	13	ug/kg	SW846 8270D
Acenaphthylene		219	38	19	ug/kg	SW846 8270D
Acetophenone		23.0 J	190	8.1	ug/kg	SW846 8270D
Anthracene		298	38	23	ug/kg	SW846 8270D
Benzo(a)anthracene		1200	38	11	ug/kg	SW846 8270D
Benzo(a)pyrene		1050	38	17	ug/kg	SW846 8270D
Benzo(b)fluoranthene		1480	38	17	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		765	38	19	ug/kg	SW846 8270D
Benzo(k)fluoranthene		403	38	18	ug/kg	SW846 8270D
Butyl benzyl phthalate		90.5	75	9.2	ug/kg	SW846 8270D
1,1'-Biphenyl		58.3 J	75	5.2	ug/kg	SW846 8270D
Carbazole		78.0	75	5.5	ug/kg	SW846 8270D
Chrysene		1190	38	12	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		253	38	17	ug/kg	SW846 8270D
Dibenzofuran		58.7 J	75	15	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		121	75	8.8	ug/kg	SW846 8270D
Fluoranthene		2110	38	17	ug/kg	SW846 8270D
Fluorene		59.1	38	17	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		693	38	18	ug/kg	SW846 8270D
2-Methylnaphthalene		218	75	8.5	ug/kg	SW846 8270D

Summary of Hits

Job Number: JC39408
Account: EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY
Collected: 03/21/17

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Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Naphthalene		179	38	11	ug/kg	SW846 8270D
Phenanthrene		757	38	13	ug/kg	SW846 8270D
Pyrene		1930	38	12	ug/kg	SW846 8270D
Arsenic		7.6	2.2		mg/kg	SW846 6010C
Beryllium		0.40	0.22		mg/kg	SW846 6010C
Cadmium		0.62	0.56		mg/kg	SW846 6010C
Chromium		22.5	1.1		mg/kg	SW846 6010C
Copper		136	2.8		mg/kg	SW846 6010C
Lead		233	2.2		mg/kg	SW846 6010C
Mercury		3.0	0.18		mg/kg	SW846 7471B
Nickel		24.0	4.5		mg/kg	SW846 6010C
Silver		1.6	0.56		mg/kg	SW846 6010C
Zinc		194	5.6		mg/kg	SW846 6010C

JC39408-5 SB-3 (4-6)

Acetone ^a		138	12	6.1	ug/kg	SW846 8260C
Benzene ^a		0.38 J	0.61	0.15	ug/kg	SW846 8260C
2-Butanone (MEK) ^a		20.3	12	2.1	ug/kg	SW846 8260C
Carbon disulfide ^a		2.1 J	2.4	0.21	ug/kg	SW846 8260C
Ethylbenzene ^a		53.0	1.2	0.18	ug/kg	SW846 8260C
Isopropylbenzene ^a		22.3	2.4	0.19	ug/kg	SW846 8260C
Methylcyclohexane ^a		1.7 J	2.4	0.61	ug/kg	SW846 8260C
Styrene ^a		1.3 J	2.4	0.18	ug/kg	SW846 8260C
Tetrachloroethene ^a		0.43 J	2.4	0.34	ug/kg	SW846 8260C
Toluene ^a		2.5	1.2	0.15	ug/kg	SW846 8260C
m,p-Xylene ^a		2.8	1.2	0.27	ug/kg	SW846 8260C
o-Xylene ^a		4.3	1.2	0.25	ug/kg	SW846 8260C
Xylene (total) ^a		7.1	1.2	0.25	ug/kg	SW846 8260C
Acenaphthene		4530	190	65	ug/kg	SW846 8270D
Acenaphthylene		981	38	19	ug/kg	SW846 8270D
Acetophenone		41.7 J	190	8.1	ug/kg	SW846 8270D
Anthracene		2510	38	23	ug/kg	SW846 8270D
Benzo(a)anthracene		2780	38	11	ug/kg	SW846 8270D
Benzo(a)pyrene		2320	38	17	ug/kg	SW846 8270D
Benzo(b)fluoranthene		1740	38	17	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		1100	38	19	ug/kg	SW846 8270D
Benzo(k)fluoranthene		494	38	18	ug/kg	SW846 8270D
1,1'-Biphenyl		199	76	5.2	ug/kg	SW846 8270D
Carbazole		53.1 J	76	5.5	ug/kg	SW846 8270D
Chrysene		2540	38	12	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		345	38	17	ug/kg	SW846 8270D
Dibenzofuran		135	76	15	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		97.9	76	8.9	ug/kg	SW846 8270D
Fluoranthene		3560	190	84	ug/kg	SW846 8270D

Summary of Hits

Job Number: JC39408
Account: EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY
Collected: 03/21/17

2

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Fluorene		1860	38	17	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		800	38	18	ug/kg	SW846 8270D
2-Methylnaphthalene		446	76	8.6	ug/kg	SW846 8270D
Naphthalene		2760	38	11	ug/kg	SW846 8270D
Phenanthrene		5390	190	64	ug/kg	SW846 8270D
Pyrene		6640	190	61	ug/kg	SW846 8270D
Beryllium		0.57	0.23		mg/kg	SW846 6010C
Chromium		15.3	1.1		mg/kg	SW846 6010C
Copper		18.7	2.8		mg/kg	SW846 6010C
Lead		31.5	2.3		mg/kg	SW846 6010C
Mercury		0.046	0.035		mg/kg	SW846 7471B
Nickel		12.7	4.5		mg/kg	SW846 6010C
Zinc		59.1	5.7		mg/kg	SW846 6010C

JC39408-6 SB-4 (2-4)

2,4-Dimethylphenol	104 J	240	87	ug/kg	SW846 8270D
2-Methylphenol	76.9 J	98	31	ug/kg	SW846 8270D
3&4-Methylphenol	217	98	40	ug/kg	SW846 8270D
Phenol	155	98	26	ug/kg	SW846 8270D
Acenaphthene	4710	49	17	ug/kg	SW846 8270D
Acenaphthylene	601	49	25	ug/kg	SW846 8270D
Anthracene	7550	490	300	ug/kg	SW846 8270D
Benzo(a)anthracene	8210	490	140	ug/kg	SW846 8270D
Benzo(a)pyrene	6170	490	220	ug/kg	SW846 8270D
Benzo(b)fluoranthene	6000	490	220	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	3710	49	24	ug/kg	SW846 8270D
Benzo(k)fluoranthene	2100	49	23	ug/kg	SW846 8270D
1,1'-Biphenyl	595	98	6.7	ug/kg	SW846 8270D
2-Chloronaphthalene	19.3 J	98	12	ug/kg	SW846 8270D
Carbazole	3550	98	7.1	ug/kg	SW846 8270D
Chrysene	7190	490	150	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene	1190	49	22	ug/kg	SW846 8270D
Dibenzofuran	4210	98	20	ug/kg	SW846 8270D
Fluoranthene	23700	490	220	ug/kg	SW846 8270D
Fluorene	4680	490	220	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	3540	49	23	ug/kg	SW846 8270D
2-Methylnaphthalene	1940	98	11	ug/kg	SW846 8270D
Naphthalene	6260	490	140	ug/kg	SW846 8270D
Phenanthrene	32600	490	160	ug/kg	SW846 8270D
Pyrene	19700	490	160	ug/kg	SW846 8270D
Arsenic	5.6	2.0		mg/kg	SW846 6010C
Beryllium	0.36	0.20		mg/kg	SW846 6010C
Chromium	11.2	0.98		mg/kg	SW846 6010C
Copper	44.2	2.5		mg/kg	SW846 6010C

Summary of Hits

Job Number: JC39408
Account: EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY
Collected: 03/21/17

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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Lead		35.9	2.0		mg/kg	SW846 6010C
Mercury		0.041	0.034		mg/kg	SW846 7471B
Nickel		12.9	3.9		mg/kg	SW846 6010C
Zinc		71.0	4.9		mg/kg	SW846 6010C

JC39408-7 SB-5 (2.5-4.5)

Benzo(a)anthracene		71.3	35	9.8	ug/kg	SW846 8270D
Benzo(a)pyrene		96.6	35	16	ug/kg	SW846 8270D
Benzo(b)fluoranthene		97.4	35	15	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		89.5	35	17	ug/kg	SW846 8270D
Benzo(k)fluoranthene		26.5 J	35	16	ug/kg	SW846 8270D
Chrysene		88.3	35	11	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		21.4 J	35	15	ug/kg	SW846 8270D
Di-n-butyl phthalate		63.0 J	69	5.6	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		180	69	8.1	ug/kg	SW846 8270D
Fluoranthene		103	35	15	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		64.5	35	16	ug/kg	SW846 8270D
Phenanthrene		31.4 J	35	12	ug/kg	SW846 8270D
Pyrene		113	35	11	ug/kg	SW846 8270D
Arsenic		2.2	2.1		mg/kg	SW846 6010C
Chromium		8.8	1.0		mg/kg	SW846 6010C
Copper		68.6	2.6		mg/kg	SW846 6010C
Lead		16.6	2.1		mg/kg	SW846 6010C
Nickel		11.5	4.2		mg/kg	SW846 6010C
Zinc		28.3	5.2		mg/kg	SW846 6010C

JC39408-8 SB-6 (5-7)

Acetone ^a		12.0	11	5.4	ug/kg	SW846 8260C
Acenaphthene		36.1 J	38	13	ug/kg	SW846 8270D
Acenaphthylene		68.9	38	19	ug/kg	SW846 8270D
Acetophenone		32.4 J	190	8.2	ug/kg	SW846 8270D
Anthracene		153	38	23	ug/kg	SW846 8270D
Benzo(a)anthracene		448	38	11	ug/kg	SW846 8270D
Benzo(a)pyrene		378	38	17	ug/kg	SW846 8270D
Benzo(b)fluoranthene		515	38	17	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		318	38	19	ug/kg	SW846 8270D
Benzo(k)fluoranthene		146	38	18	ug/kg	SW846 8270D
1,1'-Biphenyl		59.7 J	76	5.2	ug/kg	SW846 8270D
Carbazole		50.9 J	76	5.5	ug/kg	SW846 8270D
Chrysene		541	38	12	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		98.4	38	17	ug/kg	SW846 8270D
Dibenzofuran		74.2 J	76	16	ug/kg	SW846 8270D
Di-n-butyl phthalate		83.5	76	6.2	ug/kg	SW846 8270D

Summary of Hits

Job Number: JC39408
Account: EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY
Collected: 03/21/17

2

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
bis(2-Ethylhexyl)phthalate		99.4	76	8.9	ug/kg	SW846 8270D
Fluoranthene		850	38	17	ug/kg	SW846 8270D
Fluorene		29.3 J	38	17	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		260	38	18	ug/kg	SW846 8270D
2-Methylnaphthalene		380	76	8.6	ug/kg	SW846 8270D
Naphthalene		231	38	11	ug/kg	SW846 8270D
Phenanthrene		580	38	13	ug/kg	SW846 8270D
Pyrene		663	38	12	ug/kg	SW846 8270D
Aroclor 1260		106	37	16	ug/kg	SW846 8082A
Arsenic		21.5	2.3		mg/kg	SW846 6010C
Chromium		181	1.1		mg/kg	SW846 6010C
Copper ^b		344	29		mg/kg	SW846 6010C
Lead ^b		847	23		mg/kg	SW846 6010C
Mercury		0.87	0.037		mg/kg	SW846 7471B
Nickel ^b		124	46		mg/kg	SW846 6010C
Zinc		457	5.7		mg/kg	SW846 6010C

JC39408-9 SB-7 (5-8)

Acenaphthene		46.7	39	13	ug/kg	SW846 8270D
Acenaphthylene		88.1	39	20	ug/kg	SW846 8270D
Anthracene		181	39	24	ug/kg	SW846 8270D
Benzo(a)anthracene		656	39	11	ug/kg	SW846 8270D
Benzo(a)pyrene		654	39	18	ug/kg	SW846 8270D
Benzo(b)fluoranthene		599	39	17	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		458	39	19	ug/kg	SW846 8270D
Benzo(k)fluoranthene		207	39	18	ug/kg	SW846 8270D
Butyl benzyl phthalate		94.3	77	9.4	ug/kg	SW846 8270D
Carbazole		42.7 J	77	5.6	ug/kg	SW846 8270D
Chrysene		598	39	12	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		107	39	17	ug/kg	SW846 8270D
Dibenzofuran		19.8 J	77	16	ug/kg	SW846 8270D
Di-n-butyl phthalate		76.0 J	77	6.3	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		110	77	9.0	ug/kg	SW846 8270D
Fluoranthene		1100	39	17	ug/kg	SW846 8270D
Fluorene		39.8	39	18	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		361	39	18	ug/kg	SW846 8270D
2-Methylnaphthalene		28.5 J	77	8.7	ug/kg	SW846 8270D
Naphthalene		38.6 J	39	11	ug/kg	SW846 8270D
Phenanthrene		689	39	13	ug/kg	SW846 8270D
Pyrene		1250	39	12	ug/kg	SW846 8270D
Aroclor 1260		141	35	15	ug/kg	SW846 8082A
Arsenic		6.9	2.3		mg/kg	SW846 6010C
Beryllium		0.43	0.23		mg/kg	SW846 6010C
Chromium		64.8	1.1		mg/kg	SW846 6010C

Summary of Hits

Job Number: JC39408
Account: EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY
Collected: 03/21/17

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Copper		34.2	2.8		mg/kg	SW846 6010C
Lead		279	2.3		mg/kg	SW846 6010C
Mercury		1.5	0.077		mg/kg	SW846 7471B
Nickel		19.6	4.6		mg/kg	SW846 6010C
Zinc		134	5.7		mg/kg	SW846 6010C
JC39408-10 SB-8 (4-4.5)						
Aroclor 1262		251	39	26	ug/kg	SW846 8082A
JC39408-11 SB-8 (5-7)						
Acetone ^a		14.5	8.4	4.2	ug/kg	SW846 8260C
Acenaphthene		43.9	37	13	ug/kg	SW846 8270D
Acenaphthylene		107	37	19	ug/kg	SW846 8270D
Anthracene		166	37	23	ug/kg	SW846 8270D
Benzo(a)anthracene		571	37	10	ug/kg	SW846 8270D
Benzo(a)pyrene		578	37	17	ug/kg	SW846 8270D
Benzo(b)fluoranthene		612	37	16	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		509	37	19	ug/kg	SW846 8270D
Benzo(k)fluoranthene		177	37	17	ug/kg	SW846 8270D
Carbazole		52.7 J	74	5.4	ug/kg	SW846 8270D
Chrysene		507	37	12	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		112	37	16	ug/kg	SW846 8270D
Dibenzofuran		26.0 J	74	15	ug/kg	SW846 8270D
Di-n-butyl phthalate		69.9 J	74	6.0	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		105	74	8.7	ug/kg	SW846 8270D
Fluoranthene		1050	37	17	ug/kg	SW846 8270D
Fluorene		44.4	37	17	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		371	37	17	ug/kg	SW846 8270D
2-Methylnaphthalene		22.3 J	74	8.4	ug/kg	SW846 8270D
Naphthalene		45.0	37	10	ug/kg	SW846 8270D
Phenanthrene		554	37	12	ug/kg	SW846 8270D
Pyrene		962	37	12	ug/kg	SW846 8270D
Chromium		13.2	1.1		mg/kg	SW846 6010C
Copper		22.3	2.7		mg/kg	SW846 6010C
Lead		16.7	2.2		mg/kg	SW846 6010C
Mercury		0.11	0.037		mg/kg	SW846 7471B
Nickel		15.6	4.3		mg/kg	SW846 6010C
Zinc		39.7	5.4		mg/kg	SW846 6010C
JC39408-12 SB-9 (2-4)						
Acetone ^a		35.4	10	5.2	ug/kg	SW846 8260C
Methylene chloride ^a		1.1 J	5.2	1.0	ug/kg	SW846 8260C

Summary of Hits

Job Number: JC39408
Account: EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY
Collected: 03/21/17

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Acenaphthene		171	40	14	ug/kg	SW846 8270D
Acenaphthylene		30.2 J	40	21	ug/kg	SW846 8270D
Anthracene		280	40	25	ug/kg	SW846 8270D
Benzo(a)anthracene		1040	40	11	ug/kg	SW846 8270D
Benzo(a)pyrene		814	40	18	ug/kg	SW846 8270D
Benzo(b)fluoranthene		643	40	18	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		574	40	20	ug/kg	SW846 8270D
Benzo(k)fluoranthene		231	40	19	ug/kg	SW846 8270D
Carbazole		24.1 J	81	5.9	ug/kg	SW846 8270D
Chrysene		1010	40	13	ug/kg	SW846 8270D
Dibenzo(a,h)anthracene		146	40	18	ug/kg	SW846 8270D
Dibenzofuran		23.2 J	81	16	ug/kg	SW846 8270D
bis(2-Ethylhexyl)phthalate		126	81	9.5	ug/kg	SW846 8270D
Fluoranthene		1600	40	18	ug/kg	SW846 8270D
Fluorene		127	40	19	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		395	40	19	ug/kg	SW846 8270D
2-Methylnaphthalene		29.0 J	81	9.2	ug/kg	SW846 8270D
Naphthalene		37.3 J	40	11	ug/kg	SW846 8270D
Phenanthrene		1920	40	14	ug/kg	SW846 8270D
Pyrene		2490	40	13	ug/kg	SW846 8270D
Arsenic		5.4	2.4		mg/kg	SW846 6010C
Chromium		31.9	1.2		mg/kg	SW846 6010C
Copper		85.0	2.9		mg/kg	SW846 6010C
Lead		80.9	2.4		mg/kg	SW846 6010C
Mercury		0.058	0.041		mg/kg	SW846 7471B
Nickel		42.5	4.7		mg/kg	SW846 6010C
Zinc		101	5.9		mg/kg	SW846 6010C

JC39408-13 SB-2

Benzo(a)anthracene		1.1	1.0	0.21	ug/l	SW846 8270D
Benzo(a)pyrene		1.1	1.0	0.22	ug/l	SW846 8270D
Benzo(b)fluoranthene		1.2	1.0	0.21	ug/l	SW846 8270D
Benzo(g,h,i)perylene		0.74 J	1.0	0.34	ug/l	SW846 8270D
Benzo(k)fluoranthene		0.49 J	1.0	0.21	ug/l	SW846 8270D
Chrysene		0.99 J	1.0	0.18	ug/l	SW846 8270D
Fluoranthene		1.7	1.0	0.17	ug/l	SW846 8270D
Indeno(1,2,3-cd)pyrene		0.77 J	1.0	0.34	ug/l	SW846 8270D
Phenanthrene		1.0	1.0	0.18	ug/l	SW846 8270D
Pyrene		1.9	1.0	0.22	ug/l	SW846 8270D

JC39408-13F SB-2

No hits reported in this sample.

Summary of Hits

Job Number: JC39408
Account: EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY
Collected: 03/21/17

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
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JC39408-14 SB-3

Benzene	1.5	0.50	0.14	ug/l	SW846 8260C
Ethylbenzene	11.8	1.0	0.20	ug/l	SW846 8260C
Isopropylbenzene	14.6	1.0	0.16	ug/l	SW846 8260C
Methylcyclohexane	2.2 J	5.0	0.78	ug/l	SW846 8260C
Toluene	2.9	1.0	0.23	ug/l	SW846 8260C
m,p-Xylene	2.9	1.0	0.42	ug/l	SW846 8260C
o-Xylene	4.6	1.0	0.21	ug/l	SW846 8260C
Xylene (total)	7.5	1.0	0.21	ug/l	SW846 8260C
Acenaphthene	47.0	1.0	0.19	ug/l	SW846 8270D
Acenaphthylene	13.4	1.0	0.14	ug/l	SW846 8270D
Anthracene	27.3	1.0	0.22	ug/l	SW846 8270D
Benzo(a)anthracene	22.6	1.0	0.21	ug/l	SW846 8270D
Benzo(a)pyrene	23.8	1.0	0.22	ug/l	SW846 8270D
Benzo(b)fluoranthene	19.9	1.0	0.21	ug/l	SW846 8270D
Benzo(g,h,i)perylene	13.4	1.0	0.35	ug/l	SW846 8270D
Benzo(k)fluoranthene	7.4	1.0	0.21	ug/l	SW846 8270D
1,1'-Biphenyl	3.0	1.0	0.22	ug/l	SW846 8270D
Carbazole	0.62 J	1.0	0.23	ug/l	SW846 8270D
Chrysene	22.8	1.0	0.18	ug/l	SW846 8270D
Dibenzo(a,h)anthracene	4.7	1.0	0.34	ug/l	SW846 8270D
Dibenzofuran	2.0 J	5.1	0.22	ug/l	SW846 8270D
Fluoranthene	31.7	1.0	0.17	ug/l	SW846 8270D
Fluorene	35.0	1.0	0.17	ug/l	SW846 8270D
Indeno(1,2,3-cd)pyrene	12.7	1.0	0.34	ug/l	SW846 8270D
2-Methylnaphthalene	9.6	1.0	0.21	ug/l	SW846 8270D
Naphthalene	86.8	1.0	0.24	ug/l	SW846 8270D
Phenanthrene	71.8	1.0	0.18	ug/l	SW846 8270D
Pyrene	49.4	1.0	0.22	ug/l	SW846 8270D

JC39408-14F SB-3

No hits reported in this sample.

JC39408-15 SB-4

Acenaphthylene	0.57 J	1.1	0.15	ug/l	SW846 8270D
Anthracene	0.73 J	1.1	0.23	ug/l	SW846 8270D
Benzo(a)anthracene	1.5	1.1	0.23	ug/l	SW846 8270D
Benzo(a)pyrene	1.7	1.1	0.24	ug/l	SW846 8270D
Benzo(b)fluoranthene	2.2	1.1	0.23	ug/l	SW846 8270D
Benzo(g,h,i)perylene	1.2	1.1	0.38	ug/l	SW846 8270D
Benzo(k)fluoranthene	0.88 J	1.1	0.23	ug/l	SW846 8270D
Chrysene	1.6	1.1	0.20	ug/l	SW846 8270D

Summary of Hits

Job Number: JC39408
Account: EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY
Collected: 03/21/17

Lab Sample ID	Client Sample ID	Result/ Analyte	RL	MDL	Units	Method
		Fluoranthene	2.9	1.1	0.19	ug/l SW846 8270D
		Indeno(1,2,3-cd)pyrene	1.4	1.1	0.37	ug/l SW846 8270D
		Naphthalene	0.76 J	1.1	0.26	ug/l SW846 8270D
		Phenanthrene	2.5	1.1	0.19	ug/l SW846 8270D
		Pyrene	2.8	1.1	0.24	ug/l SW846 8270D

JC39408-15F SB-4

No hits reported in this sample.

JC39408-16 SB-6

Benzene	0.37 J	0.50	0.14	ug/l	SW846 8260C
Anthracene	0.65 J	1.1	0.23	ug/l	SW846 8270D
Benzo(a)anthracene	1.6	1.1	0.22	ug/l	SW846 8270D
Benzo(a)pyrene	1.9	1.1	0.23	ug/l	SW846 8270D
Benzo(b)fluoranthene	2.3	1.1	0.23	ug/l	SW846 8270D
Benzo(g,h,i)perylene	1.7	1.1	0.37	ug/l	SW846 8270D
Benzo(k)fluoranthene	0.81 J	1.1	0.23	ug/l	SW846 8270D
Chrysene	1.7	1.1	0.19	ug/l	SW846 8270D
Fluoranthene	2.6	1.1	0.19	ug/l	SW846 8270D
Indeno(1,2,3-cd)pyrene	1.4	1.1	0.36	ug/l	SW846 8270D
Phenanthrene	1.5	1.1	0.19	ug/l	SW846 8270D
Pyrene	2.7	1.1	0.24	ug/l	SW846 8270D

JC39408-16F SB-6

No hits reported in this sample.

JC39408-17 SB-7

Benzo(a)anthracene	0.98 J	1.1	0.22	ug/l	SW846 8270D
Benzo(a)pyrene	1.3	1.1	0.23	ug/l	SW846 8270D
Benzo(b)fluoranthene	1.4	1.1	0.22	ug/l	SW846 8270D
Benzo(g,h,i)perylene	0.89 J	1.1	0.36	ug/l	SW846 8270D
Benzo(k)fluoranthene	0.55 J	1.1	0.22	ug/l	SW846 8270D
Chrysene	1.0 J	1.1	0.19	ug/l	SW846 8270D
Fluoranthene	1.1	1.1	0.18	ug/l	SW846 8270D
Indeno(1,2,3-cd)pyrene	0.93 J	1.1	0.35	ug/l	SW846 8270D
Phenanthrene	0.50 J	1.1	0.19	ug/l	SW846 8270D
Pyrene	1.5	1.1	0.23	ug/l	SW846 8270D

JC39408-17F SB-7

No hits reported in this sample.

Summary of Hits

Job Number: JC39408
Account: EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY
Collected: 03/21/17

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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JC39408-18 SB-8

Benzo(a)anthracene	0.70 J	1.1	0.21	ug/l	SW846 8270D
Benzo(a)pyrene	0.83 J	1.1	0.22	ug/l	SW846 8270D
Benzo(b)fluoranthene	0.84 J	1.1	0.22	ug/l	SW846 8270D
Benzo(g,h,i)perylene	1.7	1.1	0.36	ug/l	SW846 8270D
Chrysene	0.76 J	1.1	0.19	ug/l	SW846 8270D
Fluoranthene	1.2	1.1	0.18	ug/l	SW846 8270D
Indeno(1,2,3-cd)pyrene	0.78 J	1.1	0.35	ug/l	SW846 8270D
Phenanthrene	0.86 J	1.1	0.18	ug/l	SW846 8270D
Pyrene	1.3	1.1	0.23	ug/l	SW846 8270D

JC39408-18F SB-8

No hits reported in this sample.

- (a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.
(b) Elevated detection limit due to dilution required for high interfering element.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SB-1 (0-2)	Date Sampled:	03/21/17
Lab Sample ID:	JC39408-1	Date Received:	03/22/17
Matrix:	SO - Soil	Percent Solids:	92.1
Method:	SW846 8260C SW846 5035		
Project:	1217000088, 159-161 Alexander Street, Yonkers, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X170980.D	1	03/24/17	TP	03/23/17 10:00	n/a	VX7265
Run #2							

	Initial Weight
Run #1	5.4 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	9.2	10	5.0	ug/kg	J
71-43-2	Benzene	ND	0.50	0.12	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.32	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.15	ug/kg	
75-25-2	Bromoform	ND	5.0	0.27	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.49	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	1.8	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	0.17	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.16	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.43	ug/kg	
67-66-3	Chloroform	ND	2.0	0.24	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.21	ug/kg	
110-82-7	Cyclohexane	ND	2.0	0.55	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.49	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.15	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.15	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.55	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.15	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.31	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.20	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.22	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.15	ug/kg	
76-13-1	Freon 113	ND	5.0	0.49	ug/kg	
591-78-6	2-Hexanone	ND	5.0	1.4	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-1 (0-2)		Date Sampled: 03/21/17
Lab Sample ID: JC39408-1		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 92.1
Method: SW846 8260C SW846 5035		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.0	0.15	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	2.0	ug/kg	
108-87-2	Methylcyclohexane	ND	2.0	0.51	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.27	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.85	ug/kg	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/kg	
100-42-5	Styrene	ND	2.0	0.15	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.24	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.28	ug/kg	
108-88-3	Toluene	ND	1.0	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.50	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.32	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.19	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.63	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.20	ug/kg	
	m,p-Xylene	ND	1.0	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.20	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-122%
17060-07-0	1,2-Dichloroethane-D4	98%		68-124%
2037-26-5	Toluene-D8	108%		77-125%
460-00-4	4-Bromofluorobenzene	129%		72-130%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-1 (0-2)		
Lab Sample ID: JC39408-1		Date Sampled: 03/21/17
Matrix: SO - Soil		Date Received: 03/22/17
Method: SW846 8270D SW846 3546		Percent Solids: 92.1
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P35864.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.6 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	71	18	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	22	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	30	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	63	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	180	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	180	38	ug/kg	
95-48-7	2-Methylphenol	ND	71	23	ug/kg	
	3&4-Methylphenol	ND	71	29	ug/kg	
88-75-5	2-Nitrophenol	ND	180	23	ug/kg	
100-02-7	4-Nitrophenol	ND	350	95	ug/kg	
87-86-5	Pentachlorophenol	ND	140	33	ug/kg	
108-95-2	Phenol	ND	71	19	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	23	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	27	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	21	ug/kg	
83-32-9	Acenaphthene	ND	35	12	ug/kg	
208-96-8	Acenaphthylene	ND	35	18	ug/kg	
98-86-2	Acetophenone	14.6	180	7.6	ug/kg	J
120-12-7	Anthracene	ND	35	22	ug/kg	
1912-24-9	Atrazine	ND	71	15	ug/kg	
56-55-3	Benzo(a)anthracene	70.1	35	10	ug/kg	
50-32-8	Benzo(a)pyrene	38.3	35	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	102	35	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	32.4	35	18	ug/kg	J
207-08-9	Benzo(k)fluoranthene	25.4	35	17	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	71	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	71	8.7	ug/kg	
92-52-4	1,1'-Biphenyl	73.5	71	4.9	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.8	ug/kg	
91-58-7	2-Chloronaphthalene	ND	71	8.4	ug/kg	
106-47-8	4-Chloroaniline	ND	180	13	ug/kg	
86-74-8	Carbazole	ND	71	5.1	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-1 (0-2)	Date Sampled:	03/21/17
Lab Sample ID:	JC39408-1	Date Received:	03/22/17
Matrix:	SO - Soil	Percent Solids:	92.1
Method:	SW846 8270D SW846 3546		
Project:	1217000088, 159-161 Alexander Street, Yonkers, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	71	14	ug/kg	
218-01-9	Chrysene	211	35	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	71	7.6	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	71	15	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	71	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	71	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	35	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	35	18	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	71	30	ug/kg	
123-91-1	1,4-Dioxane	ND	35	23	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	20.5	35	16	ug/kg	J
132-64-9	Dibenzofuran	28.2	71	14	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	71	5.8	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	71	8.8	ug/kg	
84-66-2	Diethyl phthalate	ND	71	7.6	ug/kg	
131-11-3	Dimethyl phthalate	ND	71	6.3	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	84.6	71	8.3	ug/kg	
206-44-0	Fluoranthene	111	35	16	ug/kg	
86-73-7	Fluorene	ND	35	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	71	9.0	ug/kg	
87-68-3	Hexachlorobutadiene	ND	35	14	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	350	14	ug/kg	
67-72-1	Hexachloroethane	ND	180	18	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	28.2	35	17	ug/kg	J
78-59-1	Isophorone	ND	71	7.6	ug/kg	
91-57-6	2-Methylnaphthalene	229	71	8.0	ug/kg	
88-74-4	2-Nitroaniline	ND	180	8.4	ug/kg	
99-09-2	3-Nitroaniline	ND	180	8.9	ug/kg	
100-01-6	4-Nitroaniline	ND	180	9.2	ug/kg	
91-20-3	Naphthalene	120	35	10	ug/kg	
98-95-3	Nitrobenzene	ND	71	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	71	10	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	13	ug/kg	
85-01-8	Phenanthrene	236	35	12	ug/kg	
129-00-0	Pyrene	104	35	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	9.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	71%		23-115%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

3.1
3

Client Sample ID: SB-1 (0-2) Lab Sample ID: JC39408-1 Matrix: SO - Soil Method: SW846 8270D SW846 3546 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	Date Sampled: 03/21/17 Date Received: 03/22/17 Percent Solids: 92.1
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ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	70%		27-114%
118-79-6	2,4,6-Tribromophenol	60%		19-152%
4165-60-0	Nitrobenzene-d5	57%		26-134%
321-60-8	2-Fluorobiphenyl	77%		39-124%
1718-51-0	Terphenyl-d14	78%		36-134%

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-1 (0-2)	
Lab Sample ID: JC39408-1	Date Sampled: 03/21/17
Matrix: SO - Soil	Date Received: 03/22/17
	Percent Solids: 92.1
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.2	2.2	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Arsenic	10.3	2.2	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Beryllium	0.55	0.22	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Cadmium	< 0.54	0.54	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Chromium	17.8	1.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Copper	47.7	2.7	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Lead	38.7	2.2	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Mercury	0.42	0.035	mg/kg	1	03/27/17	03/27/17 JPM	SW846 7471B ¹	SW846 7471B ⁴
Nickel	23.8	4.3	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Selenium	< 2.2	2.2	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Silver	< 0.54	0.54	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Thallium	< 1.1	1.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Zinc	29.2	5.4	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: MA41646

(2) Instrument QC Batch: MA41648

(3) Prep QC Batch: MP99446

(4) Prep QC Batch: MP99495

RL = Reporting Limit

Report of Analysis

Client Sample ID: SB-1 (4.5-6.5)	
Lab Sample ID: JC39408-2	Date Sampled: 03/21/17
Matrix: SO - Soil	Date Received: 03/22/17
Method: SW846 8260C SW846 5035	Percent Solids: 86.6
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X170981.D	1	03/24/17	TP	03/23/17 10:00	n/a	VX7265
Run #2							

	Initial Weight
Run #1	5.5 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	16.8	10	5.2	ug/kg	
71-43-2	Benzene	ND	0.52	0.13	ug/kg	
74-97-5	Bromochloromethane	ND	5.2	0.33	ug/kg	
75-27-4	Bromodichloromethane	ND	2.1	0.16	ug/kg	
75-25-2	Bromoform	ND	5.2	0.28	ug/kg	
74-83-9	Bromomethane	ND	5.2	0.51	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	1.8	ug/kg	
75-15-0	Carbon disulfide	ND	2.1	0.18	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.1	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	2.1	0.17	ug/kg	
75-00-3	Chloroethane	ND	5.2	0.45	ug/kg	
67-66-3	Chloroform	ND	2.1	0.25	ug/kg	
74-87-3	Chloromethane	ND	5.2	0.22	ug/kg	
110-82-7	Cyclohexane	ND	2.1	0.57	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.1	0.51	ug/kg	
124-48-1	Dibromochloromethane	ND	2.1	0.16	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.25	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.16	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.2	0.57	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.16	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.46	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.17	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.1	0.32	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.1	0.21	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	0.23	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.16	ug/kg	
76-13-1	Freon 113	ND	5.2	0.51	ug/kg	
591-78-6	2-Hexanone	ND	5.2	1.5	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-1 (4.5-6.5)	Date Sampled: 03/21/17
Lab Sample ID: JC39408-2	Date Received: 03/22/17
Matrix: SO - Soil	Percent Solids: 86.6
Method: SW846 8260C SW846 5035	
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.1	0.16	ug/kg	
79-20-9	Methyl Acetate	ND	5.2	2.1	ug/kg	
108-87-2	Methylcyclohexane	ND	2.1	0.53	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.28	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.2	0.89	ug/kg	
75-09-2	Methylene chloride	ND	5.2	1.0	ug/kg	
100-42-5	Styrene	ND	2.1	0.15	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	0.25	ug/kg	
127-18-4	Tetrachloroethene	ND	2.1	0.29	ug/kg	
108-88-3	Toluene	ND	1.0	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.2	0.52	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	0.52	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.1	0.18	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.1	0.34	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.20	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.2	0.66	ug/kg	
75-01-4	Vinyl chloride	ND	2.1	0.21	ug/kg	
	m,p-Xylene	ND	1.0	0.23	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.21	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-122%
17060-07-0	1,2-Dichloroethane-D4	99%		68-124%
2037-26-5	Toluene-D8	102%		77-125%
460-00-4	4-Bromofluorobenzene	104%		72-130%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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3

Client Sample ID: SB-1 (4.5-6.5)		
Lab Sample ID: JC39408-2		Date Sampled: 03/21/17
Matrix: SO - Soil		Date Received: 03/22/17
Method: SW846 8270D SW846 3546		Percent Solids: 86.6
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P35865.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	76	19	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	23	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	32	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	68	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	190	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	190	41	ug/kg	
95-48-7	2-Methylphenol	ND	76	24	ug/kg	
	3&4-Methylphenol	ND	76	31	ug/kg	
88-75-5	2-Nitrophenol	ND	190	25	ug/kg	
100-02-7	4-Nitrophenol	ND	380	100	ug/kg	
87-86-5	Pentachlorophenol	ND	150	36	ug/kg	
108-95-2	Phenol	ND	76	20	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	25	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	23	ug/kg	
83-32-9	Acenaphthene	18.4	38	13	ug/kg	J
208-96-8	Acenaphthylene	49.1	38	19	ug/kg	
98-86-2	Acetophenone	ND	190	8.2	ug/kg	
120-12-7	Anthracene	64.6	38	23	ug/kg	
1912-24-9	Atrazine	ND	76	16	ug/kg	
56-55-3	Benzo(a)anthracene	456	38	11	ug/kg	
50-32-8	Benzo(a)pyrene	259	38	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	716	38	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	179	38	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	242	38	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	76	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	76	9.3	ug/kg	
92-52-4	1,1'-Biphenyl	27.1	76	5.2	ug/kg	J
100-52-7	Benzaldehyde	ND	190	9.4	ug/kg	
91-58-7	2-Chloronaphthalene	ND	76	9.0	ug/kg	
106-47-8	4-Chloroaniline	ND	190	14	ug/kg	
86-74-8	Carbazole	28.1	76	5.5	ug/kg	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-1 (4.5-6.5)	Date Sampled:	03/21/17
Lab Sample ID:	JC39408-2	Date Received:	03/22/17
Matrix:	SO - Soil	Percent Solids:	86.6
Method:	SW846 8270D SW846 3546		
Project:	1217000088, 159-161 Alexander Street, Yonkers, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	76	15	ug/kg	
218-01-9	Chrysene	796	38	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	76	8.1	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	76	16	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	76	14	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	76	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	38	12	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	38	19	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	76	32	ug/kg	
123-91-1	1,4-Dioxane	ND	38	25	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	83.3	38	17	ug/kg	
132-64-9	Dibenzofuran	57.1	76	15	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	76	6.2	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	76	9.5	ug/kg	
84-66-2	Diethyl phthalate	ND	76	8.1	ug/kg	
131-11-3	Dimethyl phthalate	ND	76	6.8	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	87.2	76	8.9	ug/kg	
206-44-0	Fluoranthene	875	38	17	ug/kg	
86-73-7	Fluorene	22.6	38	17	ug/kg	J
118-74-1	Hexachlorobenzene	ND	76	9.6	ug/kg	
87-68-3	Hexachlorobutadiene	ND	38	15	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	380	15	ug/kg	
67-72-1	Hexachloroethane	ND	190	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	170	38	18	ug/kg	
78-59-1	Isophorone	ND	76	8.1	ug/kg	
91-57-6	2-Methylnaphthalene	67.4	76	8.6	ug/kg	J
88-74-4	2-Nitroaniline	ND	190	9.0	ug/kg	
99-09-2	3-Nitroaniline	ND	190	9.5	ug/kg	
100-01-6	4-Nitroaniline	ND	190	9.8	ug/kg	
91-20-3	Naphthalene	199	38	11	ug/kg	
98-95-3	Nitrobenzene	ND	76	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	76	11	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	14	ug/kg	
85-01-8	Phenanthrene	467	38	13	ug/kg	
129-00-0	Pyrene	720	38	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	9.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	68%		23-115%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: SB-1 (4.5-6.5)	
Lab Sample ID: JC39408-2	Date Sampled: 03/21/17
Matrix: SO - Soil	Date Received: 03/22/17
Method: SW846 8270D SW846 3546	Percent Solids: 86.6
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	68%		27-114%
118-79-6	2,4,6-Tribromophenol	84%		19-152%
4165-60-0	Nitrobenzene-d5	50%		26-134%
321-60-8	2-Fluorobiphenyl	79%		39-124%
1718-51-0	Terphenyl-d14	86%		36-134%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: SB-1 (4.5-6.5)	Date Sampled: 03/21/17
Lab Sample ID: JC39408-2	Date Received: 03/22/17
Matrix: SO - Soil	Percent Solids: 86.6
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.3	2.3	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Arsenic	10.8	2.3	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Beryllium	0.23	0.23	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Cadmium	< 0.57	0.57	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Chromium	10.9	1.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Copper	112	2.8	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Lead	145	2.3	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Mercury	1.3	0.069	mg/kg	2	03/27/17	03/27/17 JPM	SW846 7471B ¹	SW846 7471B ⁴
Nickel	17.2	4.5	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Selenium	< 2.3	2.3	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Silver	< 0.57	0.57	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Thallium	< 1.1	1.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Zinc	84.2	5.7	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA41646
- (2) Instrument QC Batch: MA41648
- (3) Prep QC Batch: MP99446
- (4) Prep QC Batch: MP99495

RL = Reporting Limit

Report of Analysis

Client Sample ID: SB-1 (6.5-7)	
Lab Sample ID: JC39408-3	Date Sampled: 03/21/17
Matrix: SO - Soil	Date Received: 03/22/17
Method: SW846 8082A SW846 3546	Percent Solids: 87.7
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF167999.D	1	03/27/17	HB	03/25/17	OP1377	GEF5921
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	8.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	67	33	ug/kg	
11104-28-2	Aroclor 1221	ND	67	33	ug/kg	
11141-16-5	Aroclor 1232	ND	67	26	ug/kg	
53469-21-9	Aroclor 1242	ND	67	24	ug/kg	
12672-29-6	Aroclor 1248	ND	67	42	ug/kg	
11097-69-1	Aroclor 1254	ND	67	34	ug/kg	
11096-82-5	Aroclor 1260	ND	67	28	ug/kg	
11100-14-4	Aroclor 1268	ND	67	24	ug/kg	
37324-23-5	Aroclor 1262	ND	67	45	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	91%		24-152%
877-09-8	Tetrachloro-m-xylene	102%		24-152%
2051-24-3	Decachlorobiphenyl	202% ^a		10-166%
2051-24-3	Decachlorobiphenyl	158%		10-166%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

3.4
3

Client Sample ID: SB-2 (2-4)	Date Sampled: 03/21/17
Lab Sample ID: JC39408-4	Date Received: 03/22/17
Matrix: SO - Soil	Percent Solids: 88.5
Method: SW846 8260C SW846 5035	
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X170982.D	1	03/24/17	TP	03/23/17 10:00	n/a	VX7265
Run #2							

Run #	Initial Weight
Run #1	5.3 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	5.3	ug/kg	
71-43-2	Benzene	0.23	0.53	0.13	ug/kg	J
74-97-5	Bromochloromethane	ND	5.3	0.34	ug/kg	
75-27-4	Bromodichloromethane	ND	2.1	0.16	ug/kg	
75-25-2	Bromoform	ND	5.3	0.28	ug/kg	
74-83-9	Bromomethane	ND	5.3	0.52	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	1.9	ug/kg	
75-15-0	Carbon disulfide	ND	2.1	0.18	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.1	0.18	ug/kg	
108-90-7	Chlorobenzene	ND	2.1	0.17	ug/kg	
75-00-3	Chloroethane	ND	5.3	0.46	ug/kg	
67-66-3	Chloroform	ND	2.1	0.25	ug/kg	
74-87-3	Chloromethane	ND	5.3	0.22	ug/kg	
110-82-7	Cyclohexane	ND	2.1	0.58	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.1	0.52	ug/kg	
124-48-1	Dibromochloromethane	ND	2.1	0.16	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.26	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.18	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.15	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.16	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.3	0.58	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.20	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.18	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.16	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.47	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.17	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.1	0.33	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.1	0.21	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	0.24	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.16	ug/kg	
76-13-1	Freon 113	ND	5.3	0.52	ug/kg	
591-78-6	2-Hexanone	ND	5.3	1.5	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-2 (2-4)		Date Sampled: 03/21/17
Lab Sample ID: JC39408-4		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 88.5
Method: SW846 8260C SW846 5035		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	2.1	0.16	ug/kg	
79-20-9	Methyl Acetate	ND	5.3	2.2	ug/kg	
108-87-2	Methylcyclohexane	ND	2.1	0.54	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.28	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.3	0.91	ug/kg	
75-09-2	Methylene chloride	ND	5.3	1.1	ug/kg	
100-42-5	Styrene	ND	2.1	0.15	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	0.25	ug/kg	
127-18-4	Tetrachloroethene	0.50	2.1	0.30	ug/kg	J
108-88-3	Toluene	ND	1.1	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.3	0.53	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.3	0.53	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.1	0.18	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.1	0.34	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.20	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.3	0.67	ug/kg	
75-01-4	Vinyl chloride	ND	2.1	0.22	ug/kg	
	m,p-Xylene	ND	1.1	0.23	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.22	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		70-122%
17060-07-0	1,2-Dichloroethane-D4	96%		68-124%
2037-26-5	Toluene-D8	98%		77-125%
460-00-4	4-Bromofluorobenzene	103%		72-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-2 (2-4)		Date Sampled: 03/21/17
Lab Sample ID: JC39408-4		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 88.5
Method: SW846 8270D SW846 3546		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P35867.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	75	19	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	23	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	32	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	67	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	190	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	190	40	ug/kg	
95-48-7	2-Methylphenol	ND	75	24	ug/kg	
	3&4-Methylphenol	ND	75	31	ug/kg	
88-75-5	2-Nitrophenol	ND	190	25	ug/kg	
100-02-7	4-Nitrophenol	ND	380	100	ug/kg	
87-86-5	Pentachlorophenol	ND	150	35	ug/kg	
108-95-2	Phenol	ND	75	20	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	25	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	22	ug/kg	
83-32-9	Acenaphthene	58.7	38	13	ug/kg	
208-96-8	Acenaphthylene	219	38	19	ug/kg	
98-86-2	Acetophenone	23.0	190	8.1	ug/kg	J
120-12-7	Anthracene	298	38	23	ug/kg	
1912-24-9	Atrazine	ND	75	16	ug/kg	
56-55-3	Benzo(a)anthracene	1200	38	11	ug/kg	
50-32-8	Benzo(a)pyrene	1050	38	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	1480	38	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	765	38	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	403	38	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	75	15	ug/kg	
85-68-7	Butyl benzyl phthalate	90.5	75	9.2	ug/kg	
92-52-4	1,1'-Biphenyl	58.3	75	5.2	ug/kg	J
100-52-7	Benzaldehyde	ND	190	9.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	75	9.0	ug/kg	
106-47-8	4-Chloroaniline	ND	190	14	ug/kg	
86-74-8	Carbazole	78.0	75	5.5	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-2 (2-4)		Date Sampled: 03/21/17
Lab Sample ID: JC39408-4		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 88.5
Method: SW846 8270D SW846 3546		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	75	15	ug/kg	
218-01-9	Chrysene	1190	38	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	75	8.1	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	75	16	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	75	14	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	75	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	38	12	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	38	19	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	75	31	ug/kg	
123-91-1	1,4-Dioxane	ND	38	25	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	253	38	17	ug/kg	
132-64-9	Dibenzofuran	58.7	75	15	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	75	6.1	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	75	9.4	ug/kg	
84-66-2	Diethyl phthalate	ND	75	8.0	ug/kg	
131-11-3	Dimethyl phthalate	ND	75	6.7	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	121	75	8.8	ug/kg	
206-44-0	Fluoranthene	2110	38	17	ug/kg	
86-73-7	Fluorene	59.1	38	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	75	9.5	ug/kg	
87-68-3	Hexachlorobutadiene	ND	38	15	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	380	15	ug/kg	
67-72-1	Hexachloroethane	ND	190	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	693	38	18	ug/kg	
78-59-1	Isophorone	ND	75	8.1	ug/kg	
91-57-6	2-Methylnaphthalene	218	75	8.5	ug/kg	
88-74-4	2-Nitroaniline	ND	190	8.9	ug/kg	
99-09-2	3-Nitroaniline	ND	190	9.4	ug/kg	
100-01-6	4-Nitroaniline	ND	190	9.8	ug/kg	
91-20-3	Naphthalene	179	38	11	ug/kg	
98-95-3	Nitrobenzene	ND	75	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	75	11	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	14	ug/kg	
85-01-8	Phenanthrene	757	38	13	ug/kg	
129-00-0	Pyrene	1930	38	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	9.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	84%		23-115%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-2 (2-4)	
Lab Sample ID: JC39408-4	Date Sampled: 03/21/17
Matrix: SO - Soil	Date Received: 03/22/17
Method: SW846 8270D SW846 3546	Percent Solids: 88.5
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	80%		27-114%
118-79-6	2,4,6-Tribromophenol	93%		19-152%
4165-60-0	Nitrobenzene-d5	86%		26-134%
321-60-8	2-Fluorobiphenyl	86%		39-124%
1718-51-0	Terphenyl-d14	90%		36-134%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

34
3

Client Sample ID: SB-2 (2-4)		Date Sampled: 03/21/17
Lab Sample ID: JC39408-4		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 88.5
Method: SW846 8082A SW846 3546		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX207043.D	1	03/26/17	HB	03/24/17	OP1371	GXX5975
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	18	ug/kg	
11104-28-2	Aroclor 1221	ND	37	18	ug/kg	
11141-16-5	Aroclor 1232	ND	37	15	ug/kg	
53469-21-9	Aroclor 1242	ND	37	13	ug/kg	
12672-29-6	Aroclor 1248	ND	37	23	ug/kg	
11097-69-1	Aroclor 1254	ND	37	19	ug/kg	
11096-82-5	Aroclor 1260	ND	37	16	ug/kg	
11100-14-4	Aroclor 1268	ND	37	13	ug/kg	
37324-23-5	Aroclor 1262	ND	37	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		24-152%
877-09-8	Tetrachloro-m-xylene	89%		24-152%
2051-24-3	Decachlorobiphenyl	78%		10-166%
2051-24-3	Decachlorobiphenyl	102%		10-166%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-2 (2-4)	Date Sampled: 03/21/17
Lab Sample ID: JC39408-4	Date Received: 03/22/17
Matrix: SO - Soil	Percent Solids: 88.5
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.2	2.2	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Arsenic	7.6	2.2	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Beryllium	0.40	0.22	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Cadmium	0.62	0.56	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Chromium	22.5	1.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Copper	136	2.8	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Lead	233	2.2	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Mercury	3.0	0.18	mg/kg	5	03/27/17	03/27/17 JPM	SW846 7471B ¹	SW846 7471B ⁴
Nickel	24.0	4.5	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Selenium	< 2.2	2.2	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Silver	1.6	0.56	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Thallium	< 1.1	1.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Zinc	194	5.6	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA41646
- (2) Instrument QC Batch: MA41648
- (3) Prep QC Batch: MP99446
- (4) Prep QC Batch: MP99495

RL = Reporting Limit

Report of Analysis

Client Sample ID: SB-3 (4-6)		Date Sampled: 03/21/17
Lab Sample ID: JC39408-5		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 85.8
Method: SW846 8260C SW846 5035		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X171050.D	1	03/27/17	TP	03/23/17 10:00	n/a	VX7267
Run #2							

Run #	Initial Weight
Run #1	4.8 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	138	12	6.1	ug/kg	
71-43-2	Benzene	0.38	0.61	0.15	ug/kg	J
74-97-5	Bromochloromethane	ND	6.1	0.39	ug/kg	
75-27-4	Bromodichloromethane	ND	2.4	0.18	ug/kg	
75-25-2	Bromoform	ND	6.1	0.32	ug/kg	
74-83-9	Bromomethane	ND	6.1	0.59	ug/kg	
78-93-3	2-Butanone (MEK)	20.3	12	2.1	ug/kg	
75-15-0	Carbon disulfide	2.1	2.4	0.21	ug/kg	J
56-23-5	Carbon tetrachloride	ND	2.4	0.20	ug/kg	
108-90-7	Chlorobenzene	ND	2.4	0.20	ug/kg	
75-00-3	Chloroethane	ND	6.1	0.52	ug/kg	
67-66-3	Chloroform	ND	2.4	0.29	ug/kg	
74-87-3	Chloromethane	ND	6.1	0.26	ug/kg	
110-82-7	Cyclohexane	ND	2.4	0.66	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.4	0.59	ug/kg	
124-48-1	Dibromochloromethane	ND	2.4	0.18	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.29	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.2	0.21	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.2	0.17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.2	0.19	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.1	0.66	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.2	0.23	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.21	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.2	0.19	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.2	0.53	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.2	0.19	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.4	0.38	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.4	0.24	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.4	0.27	ug/kg	
100-41-4	Ethylbenzene	53.0	1.2	0.18	ug/kg	
76-13-1	Freon 113 ^b	ND	6.1	0.59	ug/kg	
591-78-6	2-Hexanone	ND	6.1	1.7	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-3 (4-6)		Date Sampled: 03/21/17
Lab Sample ID: JC39408-5		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 85.8
Method: SW846 8260C SW846 5035		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	22.3	2.4	0.19	ug/kg	
79-20-9	Methyl Acetate	ND	6.1	2.5	ug/kg	
108-87-2	Methylcyclohexane	1.7	2.4	0.61	ug/kg	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.32	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.1	1.0	ug/kg	
75-09-2	Methylene chloride	ND	6.1	1.2	ug/kg	
100-42-5	Styrene	1.3	2.4	0.18	ug/kg	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.4	0.29	ug/kg	
127-18-4	Tetrachloroethene	0.43	2.4	0.34	ug/kg	J
108-88-3	Toluene	2.5	1.2	0.15	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.1	0.61	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.1	0.61	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.4	0.20	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.39	ug/kg	
79-01-6	Trichloroethene	ND	1.2	0.23	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.1	0.76	ug/kg	
75-01-4	Vinyl chloride	ND	2.4	0.25	ug/kg	
	m,p-Xylene	2.8	1.2	0.27	ug/kg	
95-47-6	o-Xylene	4.3	1.2	0.25	ug/kg	
1330-20-7	Xylene (total)	7.1	1.2	0.25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		70-122%
17060-07-0	1,2-Dichloroethane-D4	106%		68-124%
2037-26-5	Toluene-D8	100%		77-125%
460-00-4	4-Bromofluorobenzene	106%		72-130%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

(b) This compound in BS is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

3.5
3

Client Sample ID: SB-3 (4-6)		
Lab Sample ID: JC39408-5		Date Sampled: 03/21/17
Matrix: SO - Soil		Date Received: 03/22/17
Method: SW846 8270D SW846 3546		Percent Solids: 85.8
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P35868.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658
Run #2	6P35915A.D	5	03/28/17	JJ	03/24/17	OP1361	E6P1659

Run #	Initial Weight	Final Volume
Run #1	30.8 g	1.0 ml
Run #2	30.8 g	1.0 ml

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	76	19	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	23	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	32	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	67	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	190	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	190	40	ug/kg	
95-48-7	2-Methylphenol	ND	76	24	ug/kg	
	3&4-Methylphenol	ND	76	31	ug/kg	
88-75-5	2-Nitrophenol	ND	190	25	ug/kg	
100-02-7	4-Nitrophenol	ND	380	100	ug/kg	
87-86-5	Pentachlorophenol	ND	150	36	ug/kg	
108-95-2	Phenol	ND	76	20	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	25	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	23	ug/kg	
83-32-9	Acenaphthene	4530 ^a	190	65	ug/kg	
208-96-8	Acenaphthylene	981	38	19	ug/kg	
98-86-2	Acetophenone	41.7	190	8.1	ug/kg	J
120-12-7	Anthracene	2510	38	23	ug/kg	
1912-24-9	Atrazine	ND	76	16	ug/kg	
56-55-3	Benzo(a)anthracene	2780	38	11	ug/kg	
50-32-8	Benzo(a)pyrene	2320	38	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	1740	38	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	1100	38	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	494	38	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	76	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	76	9.2	ug/kg	
92-52-4	1,1'-Biphenyl	199	76	5.2	ug/kg	
100-52-7	Benzaldehyde	ND	190	9.4	ug/kg	
91-58-7	2-Chloronaphthalene	ND	76	9.0	ug/kg	
106-47-8	4-Chloroaniline	ND	190	14	ug/kg	
86-74-8	Carbazole	53.1	76	5.5	ug/kg	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-3 (4-6)	Date Sampled:	03/21/17
Lab Sample ID:	JC39408-5	Date Received:	03/22/17
Matrix:	SO - Soil	Percent Solids:	85.8
Method:	SW846 8270D SW846 3546		
Project:	1217000088, 159-161 Alexander Street, Yonkers, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	76	15	ug/kg	
218-01-9	Chrysene	2540	38	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	76	8.1	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	76	16	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	76	14	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	76	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	38	12	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	38	19	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	76	32	ug/kg	
123-91-1	1,4-Dioxane	ND	38	25	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	345	38	17	ug/kg	
132-64-9	Dibenzofuran	135	76	15	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	76	6.2	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	76	9.4	ug/kg	
84-66-2	Diethyl phthalate	ND	76	8.1	ug/kg	
131-11-3	Dimethyl phthalate	ND	76	6.7	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	97.9	76	8.9	ug/kg	
206-44-0	Fluoranthene	3560 ^a	190	84	ug/kg	
86-73-7	Fluorene	1860	38	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	76	9.6	ug/kg	
87-68-3	Hexachlorobutadiene	ND	38	15	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	380	15	ug/kg	
67-72-1	Hexachloroethane	ND	190	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	800	38	18	ug/kg	
78-59-1	Isophorone	ND	76	8.1	ug/kg	
91-57-6	2-Methylnaphthalene	446	76	8.6	ug/kg	
88-74-4	2-Nitroaniline	ND	190	8.9	ug/kg	
99-09-2	3-Nitroaniline	ND	190	9.5	ug/kg	
100-01-6	4-Nitroaniline	ND	190	9.8	ug/kg	
91-20-3	Naphthalene	2760	38	11	ug/kg	
98-95-3	Nitrobenzene	ND	76	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	76	11	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	14	ug/kg	
85-01-8	Phenanthrene	5390 ^a	190	64	ug/kg	
129-00-0	Pyrene	6640 ^a	190	61	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	9.6	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	80%	75%	23-115%

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-3 (4-6)	
Lab Sample ID: JC39408-5	Date Sampled: 03/21/17
Matrix: SO - Soil	Date Received: 03/22/17
Method: SW846 8270D SW846 3546	Percent Solids: 85.8
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	79%	67%	27-114%
118-79-6	2,4,6-Tribromophenol	100%	86%	19-152%
4165-60-0	Nitrobenzene-d5	77%	72%	26-134%
321-60-8	2-Fluorobiphenyl	82%	79%	39-124%
1718-51-0	Terphenyl-d14	90%	90%	36-134%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.5
3

Client Sample ID: SB-3 (4-6)		Date Sampled: 03/21/17
Lab Sample ID: JC39408-5		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 85.8
Method: SW846 8082A SW846 3546		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX207085.D	1	03/27/17	HB	03/24/17	OP1371	GXX5976
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	9.4 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	62	31	ug/kg	
11104-28-2	Aroclor 1221	ND	62	30	ug/kg	
11141-16-5	Aroclor 1232	ND	62	24	ug/kg	
53469-21-9	Aroclor 1242	ND	62	22	ug/kg	
12672-29-6	Aroclor 1248	ND	62	39	ug/kg	
11097-69-1	Aroclor 1254	ND	62	31	ug/kg	
11096-82-5	Aroclor 1260	ND	62	26	ug/kg	
11100-14-4	Aroclor 1268	ND	62	22	ug/kg	
37324-23-5	Aroclor 1262	ND	62	42	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	97%		24-152%
877-09-8	Tetrachloro-m-xylene	103%		24-152%
2051-24-3	Decachlorobiphenyl	113%		10-166%
2051-24-3	Decachlorobiphenyl	130%		10-166%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-3 (4-6)	Date Sampled: 03/21/17
Lab Sample ID: JC39408-5	Date Received: 03/22/17
Matrix: SO - Soil	Percent Solids: 85.8
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.3	2.3	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Arsenic	< 2.3	2.3	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Beryllium	0.57	0.23	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Cadmium	< 0.57	0.57	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Chromium	15.3	1.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Copper	18.7	2.8	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Lead	31.5	2.3	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Mercury	0.046	0.035	mg/kg	1	03/27/17	03/27/17 JPM	SW846 7471B ¹	SW846 7471B ⁴
Nickel	12.7	4.5	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Selenium	< 2.3	2.3	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Silver	< 0.57	0.57	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Thallium	< 1.1	1.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Zinc	59.1	5.7	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: MA41646

(2) Instrument QC Batch: MA41648

(3) Prep QC Batch: MP99446

(4) Prep QC Batch: MP99495

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SB-4 (2-4)	Date Sampled:	03/21/17
Lab Sample ID:	JC39408-6	Date Received:	03/22/17
Matrix:	SO - Soil	Percent Solids:	67.1
Method:	SW846 8260C SW846 5035		
Project:	1217000088, 159-161 Alexander Street, Yonkers, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X171020.D	1	03/25/17	TP	03/23/17 10:00	n/a	VX7266
Run #2							

	Initial Weight
Run #1	4.7 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	16	7.9	ug/kg	
71-43-2	Benzene	ND	0.79	0.19	ug/kg	
74-97-5	Bromochloromethane	ND	7.9	0.51	ug/kg	
75-27-4	Bromodichloromethane	ND	3.2	0.24	ug/kg	
75-25-2	Bromoform	ND	7.9	0.42	ug/kg	
74-83-9	Bromomethane	ND	7.9	0.77	ug/kg	
78-93-3	2-Butanone (MEK)	ND	16	2.8	ug/kg	
75-15-0	Carbon disulfide	ND	3.2	0.27	ug/kg	
56-23-5	Carbon tetrachloride	ND	3.2	0.26	ug/kg	
108-90-7	Chlorobenzene	ND	3.2	0.26	ug/kg	
75-00-3	Chloroethane	ND	7.9	0.68	ug/kg	
67-66-3	Chloroform	ND	3.2	0.38	ug/kg	
74-87-3	Chloromethane	ND	7.9	0.33	ug/kg	
110-82-7	Cyclohexane	ND	3.2	0.87	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.2	0.77	ug/kg	
124-48-1	Dibromochloromethane	ND	3.2	0.24	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.6	0.38	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.6	0.27	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.6	0.22	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.6	0.24	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	7.9	0.86	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.6	0.30	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.6	0.27	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.6	0.24	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.6	0.69	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.6	0.25	ug/kg	
78-87-5	1,2-Dichloropropane	ND	3.2	0.49	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	3.2	0.31	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	3.2	0.35	ug/kg	
100-41-4	Ethylbenzene	ND	1.6	0.24	ug/kg	
76-13-1	Freon 113	ND	7.9	0.77	ug/kg	
591-78-6	2-Hexanone	ND	7.9	2.2	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-4 (2-4)	Date Sampled:	03/21/17
Lab Sample ID:	JC39408-6	Date Received:	03/22/17
Matrix:	SO - Soil	Percent Solids:	67.1
Method:	SW846 8260C SW846 5035		
Project:	1217000088, 159-161 Alexander Street, Yonkers, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene ^b	ND	3.2	0.24	ug/kg	
79-20-9	Methyl Acetate	ND	7.9	3.2	ug/kg	
108-87-2	Methylcyclohexane	ND	3.2	0.80	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.6	0.42	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	7.9	1.3	ug/kg	
75-09-2	Methylene chloride	ND	7.9	1.6	ug/kg	
100-42-5	Styrene	ND	3.2	0.23	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.2	0.38	ug/kg	
127-18-4	Tetrachloroethene	ND	3.2	0.45	ug/kg	
108-88-3	Toluene	ND	1.6	0.20	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	7.9	0.79	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	7.9	0.79	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	3.2	0.26	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	3.2	0.51	ug/kg	
79-01-6	Trichloroethene	ND	1.6	0.30	ug/kg	
75-69-4	Trichlorofluoromethane	ND	7.9	1.0	ug/kg	
75-01-4	Vinyl chloride	ND	3.2	0.32	ug/kg	
	m,p-Xylene	ND	1.6	0.35	ug/kg	
95-47-6	o-Xylene	ND	1.6	0.32	ug/kg	
1330-20-7	Xylene (total)	ND	1.6	0.32	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		70-122%
17060-07-0	1,2-Dichloroethane-D4	106%		68-124%
2037-26-5	Toluene-D8	96%		77-125%
460-00-4	4-Bromofluorobenzene	110%		72-130%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

(b) This compound in BS is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-4 (2-4)		Date Sampled: 03/21/17
Lab Sample ID: JC39408-6		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 67.1
Method: SW846 8270D SW846 3546		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P35869.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658
Run #2	6P35916.D	10	03/28/17	JJ	03/24/17	OP1361	E6P1659

Run #	Initial Weight	Final Volume
Run #1	30.5 g	1.0 ml
Run #2	30.5 g	1.0 ml

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	98	24	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	240	30	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	240	42	ug/kg	
105-67-9	2,4-Dimethylphenol	104	240	87	ug/kg	J
51-28-5	2,4-Dinitrophenol	ND	240	180	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	240	52	ug/kg	
95-48-7	2-Methylphenol	76.9	98	31	ug/kg	J
	3&4-Methylphenol	217	98	40	ug/kg	
88-75-5	2-Nitrophenol	ND	240	32	ug/kg	
100-02-7	4-Nitrophenol	ND	490	130	ug/kg	
87-86-5	Pentachlorophenol	ND	200	46	ug/kg	
108-95-2	Phenol	155	98	26	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	240	32	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	240	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	240	29	ug/kg	
83-32-9	Acenaphthene	4710	49	17	ug/kg	
208-96-8	Acenaphthylene	601	49	25	ug/kg	
98-86-2	Acetophenone	ND	240	11	ug/kg	
120-12-7	Anthracene	7550 ^a	490	300	ug/kg	
1912-24-9	Atrazine	ND	98	21	ug/kg	
56-55-3	Benzo(a)anthracene	8210 ^a	490	140	ug/kg	
50-32-8	Benzo(a)pyrene	6170 ^a	490	220	ug/kg	
205-99-2	Benzo(b)fluoranthene	6000 ^a	490	220	ug/kg	
191-24-2	Benzo(g,h,i)perylene	3710	49	24	ug/kg	
207-08-9	Benzo(k)fluoranthene	2100	49	23	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	98	19	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	98	12	ug/kg	
92-52-4	1,1'-Biphenyl	595	98	6.7	ug/kg	
100-52-7	Benzaldehyde	ND	240	12	ug/kg	
91-58-7	2-Chloronaphthalene	19.3	98	12	ug/kg	J
106-47-8	4-Chloroaniline	ND	240	18	ug/kg	
86-74-8	Carbazole	3550	98	7.1	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-4 (2-4)	
Lab Sample ID: JC39408-6	Date Sampled: 03/21/17
Matrix: SO - Soil	Date Received: 03/22/17
Method: SW846 8270D SW846 3546	Percent Solids: 67.1
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	98	19	ug/kg	
218-01-9	Chrysene	7190 ^a	490	150	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	98	10	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	98	21	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	98	18	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	98	16	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	49	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	49	25	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	98	41	ug/kg	
123-91-1	1,4-Dioxane	ND	49	32	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	1190	49	22	ug/kg	
132-64-9	Dibenzofuran	4210	98	20	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	98	8.0	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	98	12	ug/kg	
84-66-2	Diethyl phthalate	ND	98	10	ug/kg	
131-11-3	Dimethyl phthalate	ND	98	8.7	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	98	11	ug/kg	
206-44-0	Fluoranthene	23700 ^a	490	220	ug/kg	
86-73-7	Fluorene	4680 ^a	490	220	ug/kg	
118-74-1	Hexachlorobenzene	ND	98	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	49	20	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	490	19	ug/kg	
67-72-1	Hexachloroethane	ND	240	24	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	3540	49	23	ug/kg	
78-59-1	Isophorone	ND	98	10	ug/kg	
91-57-6	2-Methylnaphthalene	1940	98	11	ug/kg	
88-74-4	2-Nitroaniline	ND	240	12	ug/kg	
99-09-2	3-Nitroaniline	ND	240	12	ug/kg	
100-01-6	4-Nitroaniline	ND	240	13	ug/kg	
91-20-3	Naphthalene	6260 ^a	490	140	ug/kg	
98-95-3	Nitrobenzene	ND	98	19	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	98	14	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	240	18	ug/kg	
85-01-8	Phenanthrene	32600 ^a	490	160	ug/kg	
129-00-0	Pyrene	19700 ^a	490	160	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	240	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	75%	70%	23-115%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-4 (2-4)	
Lab Sample ID: JC39408-6	Date Sampled: 03/21/17
Matrix: SO - Soil	Date Received: 03/22/17
Method: SW846 8270D SW846 3546	Percent Solids: 67.1
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	74%	59%	27-114%
118-79-6	2,4,6-Tribromophenol	89%	70%	19-152%
4165-60-0	Nitrobenzene-d5	70%	64%	26-134%
321-60-8	2-Fluorobiphenyl	77%	73%	39-124%
1718-51-0	Terphenyl-d14	79%	81%	36-134%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

3.6
3

Client Sample ID: SB-4 (2-4)	
Lab Sample ID: JC39408-6	Date Sampled: 03/21/17
Matrix: SO - Soil	Date Received: 03/22/17
Method: SW846 8082A SW846 3546	Percent Solids: 67.1
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX207086.D	1	03/27/17	HB	03/24/17	OP1371	GXX5976
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	6.7 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	110	55	ug/kg	
11104-28-2	Aroclor 1221	ND	110	54	ug/kg	
11141-16-5	Aroclor 1232	ND	110	44	ug/kg	
53469-21-9	Aroclor 1242	ND	110	40	ug/kg	
12672-29-6	Aroclor 1248	ND	110	70	ug/kg	
11097-69-1	Aroclor 1254	ND	110	56	ug/kg	
11096-82-5	Aroclor 1260	ND	110	47	ug/kg	
11100-14-4	Aroclor 1268	ND	110	40	ug/kg	
37324-23-5	Aroclor 1262	ND	110	75	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	99%		24-152%
877-09-8	Tetrachloro-m-xylene	115%		24-152%
2051-24-3	Decachlorobiphenyl	91%		10-166%
2051-24-3	Decachlorobiphenyl	108%		10-166%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-4 (2-4)	Date Sampled: 03/21/17
Lab Sample ID: JC39408-6	Date Received: 03/22/17
Matrix: SO - Soil	Percent Solids: 67.1
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.0	2.0	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Arsenic	5.6	2.0	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Beryllium	0.36	0.20	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Cadmium	< 0.49	0.49	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Chromium	11.2	0.98	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Copper	44.2	2.5	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Lead	35.9	2.0	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Mercury	0.041	0.034	mg/kg	1	03/27/17	03/27/17 JPM	SW846 7471B ¹	SW846 7471B ⁴
Nickel	12.9	3.9	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Selenium	< 2.0	2.0	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Silver	< 0.49	0.49	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Thallium	< 0.98	0.98	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Zinc	71.0	4.9	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: MA41646

(2) Instrument QC Batch: MA41648

(3) Prep QC Batch: MP99446

(4) Prep QC Batch: MP99495

RL = Reporting Limit

Report of Analysis

Client Sample ID: SB-5 (2.5-4.5)**Lab Sample ID:** JC39408-7**Matrix:** SO - Soil**Method:** SW846 8260C SW846 5035**Project:** 1217000088, 159-161 Alexander Street, Yonkers, NY**Date Sampled:** 03/21/17**Date Received:** 03/22/17**Percent Solids:** 96.0

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X171025.D	1	03/25/17	TP	03/23/17 10:00	n/a	VX7266
Run #2							

	Initial Weight
Run #1	5.1 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.1	ug/kg	
71-43-2	Benzene	ND	0.51	0.12	ug/kg	
74-97-5	Bromochloromethane	ND	5.1	0.33	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.16	ug/kg	
75-25-2	Bromoform	ND	5.1	0.27	ug/kg	
74-83-9	Bromomethane	ND	5.1	0.50	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	1.8	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	0.17	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.17	ug/kg	
75-00-3	Chloroethane	ND	5.1	0.44	ug/kg	
67-66-3	Chloroform	ND	2.0	0.24	ug/kg	
74-87-3	Chloromethane	ND	5.1	0.22	ug/kg	
110-82-7	Cyclohexane	ND	2.0	0.56	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.49	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.15	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.25	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.16	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.1	0.56	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.16	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.45	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.32	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.20	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.23	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.15	ug/kg	
76-13-1	Freon 113	ND	5.1	0.49	ug/kg	
591-78-6	2-Hexanone	ND	5.1	1.4	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-5 (2.5-4.5)	Date Sampled:	03/21/17
Lab Sample ID:	JC39408-7	Date Received:	03/22/17
Matrix:	SO - Soil	Percent Solids:	96.0
Method:	SW846 8260C SW846 5035		
Project:	1217000088, 159-161 Alexander Street, Yonkers, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene ^b	ND	2.0	0.16	ug/kg	
79-20-9	Methyl Acetate	ND	5.1	2.1	ug/kg	
108-87-2	Methylcyclohexane	ND	2.0	0.52	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.27	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.1	0.87	ug/kg	
75-09-2	Methylene chloride	ND	5.1	1.0	ug/kg	
100-42-5	Styrene	ND	2.0	0.15	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.24	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.29	ug/kg	
108-88-3	Toluene	ND	1.0	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.1	0.51	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	0.51	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.33	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.19	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.1	0.64	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.21	ug/kg	
	m,p-Xylene	ND	1.0	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.21	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		70-122%
17060-07-0	1,2-Dichloroethane-D4	108%		68-124%
2037-26-5	Toluene-D8	101%		77-125%
460-00-4	4-Bromofluorobenzene	105%		72-130%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

(b) This compound in BS is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-5 (2.5-4.5)	
Lab Sample ID: JC39408-7	Date Sampled: 03/21/17
Matrix: SO - Soil	Date Received: 03/22/17
Method: SW846 8270D SW846 3546	Percent Solids: 96.0
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P35870.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	69	17	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	21	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	30	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	62	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	37	ug/kg	
95-48-7	2-Methylphenol	ND	69	22	ug/kg	
	3&4-Methylphenol	ND	69	28	ug/kg	
88-75-5	2-Nitrophenol	ND	170	23	ug/kg	
100-02-7	4-Nitrophenol	ND	350	92	ug/kg	
87-86-5	Pentachlorophenol	ND	140	32	ug/kg	
108-95-2	Phenol	ND	69	18	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	23	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	26	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	21	ug/kg	
83-32-9	Acenaphthene	ND	35	12	ug/kg	
208-96-8	Acenaphthylene	ND	35	18	ug/kg	
98-86-2	Acetophenone	ND	170	7.4	ug/kg	
120-12-7	Anthracene	ND	35	21	ug/kg	
1912-24-9	Atrazine	ND	69	15	ug/kg	
56-55-3	Benzo(a)anthracene	71.3	35	9.8	ug/kg	
50-32-8	Benzo(a)pyrene	96.6	35	16	ug/kg	
205-99-2	Benzo(b)fluoranthene	97.4	35	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	89.5	35	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	26.5	35	16	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	69	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	69	8.4	ug/kg	
92-52-4	1,1'-Biphenyl	ND	69	4.7	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.6	ug/kg	
91-58-7	2-Chloronaphthalene	ND	69	8.2	ug/kg	
106-47-8	4-Chloroaniline	ND	170	12	ug/kg	
86-74-8	Carbazole	ND	69	5.0	ug/kg	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-5 (2.5-4.5)	
Lab Sample ID: JC39408-7	Date Sampled: 03/21/17
Matrix: SO - Soil	Date Received: 03/22/17
Method: SW846 8270D SW846 3546	Percent Solids: 96.0
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	69	14	ug/kg	
218-01-9	Chrysene	88.3	35	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	69	7.4	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	69	15	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	69	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	69	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	35	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	35	17	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	69	29	ug/kg	
123-91-1	1,4-Dioxane	ND	35	23	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	21.4	35	15	ug/kg	J
132-64-9	Dibenzofuran	ND	69	14	ug/kg	
84-74-2	Di-n-butyl phthalate	63.0	69	5.6	ug/kg	J
117-84-0	Di-n-octyl phthalate	ND	69	8.6	ug/kg	
84-66-2	Diethyl phthalate	ND	69	7.4	ug/kg	
131-11-3	Dimethyl phthalate	ND	69	6.2	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	180	69	8.1	ug/kg	
206-44-0	Fluoranthene	103	35	15	ug/kg	
86-73-7	Fluorene	ND	35	16	ug/kg	
118-74-1	Hexachlorobenzene	ND	69	8.8	ug/kg	
87-68-3	Hexachlorobutadiene	ND	35	14	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	350	14	ug/kg	
67-72-1	Hexachloroethane	ND	170	17	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	64.5	35	16	ug/kg	
78-59-1	Isophorone	ND	69	7.4	ug/kg	
91-57-6	2-Methylnaphthalene	ND	69	7.8	ug/kg	
88-74-4	2-Nitroaniline	ND	170	8.2	ug/kg	
99-09-2	3-Nitroaniline	ND	170	8.7	ug/kg	
100-01-6	4-Nitroaniline	ND	170	9.0	ug/kg	
91-20-3	Naphthalene	ND	35	9.8	ug/kg	
98-95-3	Nitrobenzene	ND	69	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	69	10	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	13	ug/kg	
85-01-8	Phenanthrene	31.4	35	12	ug/kg	J
129-00-0	Pyrene	113	35	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	8.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	99%		23-115%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-5 (2.5-4.5)	
Lab Sample ID: JC39408-7	Date Sampled: 03/21/17
Matrix: SO - Soil	Date Received: 03/22/17
Method: SW846 8270D SW846 3546	Percent Solids: 96.0
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	92%		27-114%
118-79-6	2,4,6-Tribromophenol	103%		19-152%
4165-60-0	Nitrobenzene-d5	93%		26-134%
321-60-8	2-Fluorobiphenyl	92%		39-124%
1718-51-0	Terphenyl-d14	93%		36-134%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: SB-5 (2.5-4.5)	
Lab Sample ID: JC39408-7	Date Sampled: 03/21/17
Matrix: SO - Soil	Date Received: 03/22/17
Method: SW846 8082A SW846 3546	Percent Solids: 96.0
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX207087.D	1	03/27/17	HB	03/24/17	OP1371	GXX5976
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.9 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	16	ug/kg	
11104-28-2	Aroclor 1221	ND	33	16	ug/kg	
11141-16-5	Aroclor 1232	ND	33	13	ug/kg	
53469-21-9	Aroclor 1242	ND	33	12	ug/kg	
12672-29-6	Aroclor 1248	ND	33	21	ug/kg	
11097-69-1	Aroclor 1254	ND	33	16	ug/kg	
11096-82-5	Aroclor 1260	ND	33	14	ug/kg	
11100-14-4	Aroclor 1268	ND	33	12	ug/kg	
37324-23-5	Aroclor 1262	ND	33	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	107%		24-152%
877-09-8	Tetrachloro-m-xylene	121%		24-152%
2051-24-3	Decachlorobiphenyl	89%		10-166%
2051-24-3	Decachlorobiphenyl	107%		10-166%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-5 (2.5-4.5)	Date Sampled: 03/21/17
Lab Sample ID: JC39408-7	Date Received: 03/22/17
Matrix: SO - Soil	Percent Solids: 96.0
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.1	2.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Arsenic	2.2	2.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Beryllium	< 0.21	0.21	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Cadmium	< 0.52	0.52	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Chromium	8.8	1.0	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Copper	68.6	2.6	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Lead	16.6	2.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Mercury	< 0.033	0.033	mg/kg	1	03/27/17	03/27/17 JPM	SW846 7471B ¹	SW846 7471B ⁴
Nickel	11.5	4.2	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Selenium	< 2.1	2.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Silver	< 0.52	0.52	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Thallium	< 1.0	1.0	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Zinc	28.3	5.2	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA41646
- (2) Instrument QC Batch: MA41648
- (3) Prep QC Batch: MP99446
- (4) Prep QC Batch: MP99495

RL = Reporting Limit

Report of Analysis

Client Sample ID: SB-6 (5-7)		
Lab Sample ID: JC39408-8		Date Sampled: 03/21/17
Matrix: SO - Soil		Date Received: 03/22/17
Method: SW846 8260C SW846 5035		Percent Solids: 86.3
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X171019.D	1	03/25/17	TP	03/23/17 10:00	n/a	VX7266
Run #2							

	Initial Weight
Run #1	5.4 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	12.0	11	5.4	ug/kg	
71-43-2	Benzene	ND	0.54	0.13	ug/kg	
74-97-5	Bromochloromethane	ND	5.4	0.34	ug/kg	
75-27-4	Bromodichloromethane	ND	2.1	0.16	ug/kg	
75-25-2	Bromoform	ND	5.4	0.29	ug/kg	
74-83-9	Bromomethane	ND	5.4	0.52	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	1.9	ug/kg	
75-15-0	Carbon disulfide	ND	2.1	0.18	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.1	0.18	ug/kg	
108-90-7	Chlorobenzene	ND	2.1	0.17	ug/kg	
75-00-3	Chloroethane	ND	5.4	0.46	ug/kg	
67-66-3	Chloroform	ND	2.1	0.26	ug/kg	
74-87-3	Chloromethane	ND	5.4	0.23	ug/kg	
110-82-7	Cyclohexane	ND	2.1	0.59	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.1	0.52	ug/kg	
124-48-1	Dibromochloromethane	ND	2.1	0.16	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.26	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.18	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.1	0.15	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.1	0.16	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.4	0.58	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.1	0.20	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.18	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.1	0.16	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.47	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.17	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.1	0.33	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.1	0.21	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	0.24	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.16	ug/kg	
76-13-1	Freon 113	ND	5.4	0.52	ug/kg	
591-78-6	2-Hexanone	ND	5.4	1.5	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-6 (5-7)	Date Sampled:	03/21/17
Lab Sample ID:	JC39408-8	Date Received:	03/22/17
Matrix:	SO - Soil	Percent Solids:	86.3
Method:	SW846 8260C SW846 5035		
Project:	1217000088, 159-161 Alexander Street, Yonkers, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene ^b	ND	2.1	0.17	ug/kg	
79-20-9	Methyl Acetate	ND	5.4	2.2	ug/kg	
108-87-2	Methylcyclohexane	ND	2.1	0.54	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.28	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.4	0.91	ug/kg	
75-09-2	Methylene chloride	ND	5.4	1.1	ug/kg	
100-42-5	Styrene	ND	2.1	0.16	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	0.26	ug/kg	
127-18-4	Tetrachloroethene	ND	2.1	0.30	ug/kg	
108-88-3	Toluene	ND	1.1	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.4	0.54	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	0.54	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.1	0.18	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.1	0.35	ug/kg	
79-01-6	Trichloroethene	ND	1.1	0.20	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.4	0.67	ug/kg	
75-01-4	Vinyl chloride	ND	2.1	0.22	ug/kg	
	m,p-Xylene	ND	1.1	0.23	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.22	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-122%
17060-07-0	1,2-Dichloroethane-D4	104%		68-124%
2037-26-5	Toluene-D8	99%		77-125%
460-00-4	4-Bromofluorobenzene	103%		72-130%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

(b) This compound in BS is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-6 (5-7)		Date Sampled: 03/21/17
Lab Sample ID: JC39408-8		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 86.3
Method: SW846 8270D SW846 3546		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P35871.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	76	19	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	23	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	68	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	190	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	190	41	ug/kg	
95-48-7	2-Methylphenol	ND	76	24	ug/kg	
	3&4-Methylphenol	ND	76	31	ug/kg	
88-75-5	2-Nitrophenol	ND	190	25	ug/kg	
100-02-7	4-Nitrophenol	ND	380	100	ug/kg	
87-86-5	Pentachlorophenol	ND	150	36	ug/kg	
108-95-2	Phenol	ND	76	20	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	25	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	29	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	23	ug/kg	
83-32-9	Acenaphthene	36.1	38	13	ug/kg	J
208-96-8	Acenaphthylene	68.9	38	19	ug/kg	
98-86-2	Acetophenone	32.4	190	8.2	ug/kg	J
120-12-7	Anthracene	153	38	23	ug/kg	
1912-24-9	Atrazine	ND	76	16	ug/kg	
56-55-3	Benzo(a)anthracene	448	38	11	ug/kg	
50-32-8	Benzo(a)pyrene	378	38	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	515	38	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	318	38	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	146	38	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	76	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	76	9.3	ug/kg	
92-52-4	1,1'-Biphenyl	59.7	76	5.2	ug/kg	J
100-52-7	Benzaldehyde	ND	190	9.5	ug/kg	
91-58-7	2-Chloronaphthalene	ND	76	9.1	ug/kg	
106-47-8	4-Chloroaniline	ND	190	14	ug/kg	
86-74-8	Carbazole	50.9	76	5.5	ug/kg	J

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis



Client Sample ID:	SB-6 (5-7)	Date Sampled:	03/21/17
Lab Sample ID:	JC39408-8	Date Received:	03/22/17
Matrix:	SO - Soil	Percent Solids:	86.3
Method:	SW846 8270D SW846 3546		
Project:	1217000088, 159-161 Alexander Street, Yonkers, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	76	15	ug/kg	
218-01-9	Chrysene	541	38	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	76	8.2	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	76	16	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	76	14	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	76	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	38	12	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	38	19	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	76	32	ug/kg	
123-91-1	1,4-Dioxane	ND	38	25	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	98.4	38	17	ug/kg	
132-64-9	Dibenzofuran	74.2	76	16	ug/kg	J
84-74-2	Di-n-butyl phthalate	83.5	76	6.2	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	76	9.5	ug/kg	
84-66-2	Diethyl phthalate	ND	76	8.1	ug/kg	
131-11-3	Dimethyl phthalate	ND	76	6.8	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	99.4	76	8.9	ug/kg	
206-44-0	Fluoranthene	850	38	17	ug/kg	
86-73-7	Fluorene	29.3	38	17	ug/kg	J
118-74-1	Hexachlorobenzene	ND	76	9.6	ug/kg	
87-68-3	Hexachlorobutadiene	ND	38	15	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	380	15	ug/kg	
67-72-1	Hexachloroethane	ND	190	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	260	38	18	ug/kg	
78-59-1	Isophorone	ND	76	8.2	ug/kg	
91-57-6	2-Methylnaphthalene	380	76	8.6	ug/kg	
88-74-4	2-Nitroaniline	ND	190	9.0	ug/kg	
99-09-2	3-Nitroaniline	ND	190	9.5	ug/kg	
100-01-6	4-Nitroaniline	ND	190	9.9	ug/kg	
91-20-3	Naphthalene	231	38	11	ug/kg	
98-95-3	Nitrobenzene	ND	76	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	76	11	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	14	ug/kg	
85-01-8	Phenanthrene	580	38	13	ug/kg	
129-00-0	Pyrene	663	38	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	9.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	94%		23-115%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-6 (5-7)		Date Sampled: 03/21/17
Lab Sample ID: JC39408-8		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 86.3
Method: SW846 8270D SW846 3546		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	90%		27-114%
118-79-6	2,4,6-Tribromophenol	94%		19-152%
4165-60-0	Nitrobenzene-d5	57%		26-134%
321-60-8	2-Fluorobiphenyl	98%		39-124%
1718-51-0	Terphenyl-d14	95%		36-134%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-6 (5-7)	
Lab Sample ID: JC39408-8	Date Sampled: 03/21/17
Matrix: SO - Soil	Date Received: 03/22/17
Method: SW846 8082A SW846 3546	Percent Solids: 86.3
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX207088.D	1	03/27/17	HB	03/24/17	OP1371	GXX5976
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	18	ug/kg	
11104-28-2	Aroclor 1221	ND	37	18	ug/kg	
11141-16-5	Aroclor 1232	ND	37	15	ug/kg	
53469-21-9	Aroclor 1242	ND	37	13	ug/kg	
12672-29-6	Aroclor 1248	ND	37	23	ug/kg	
11097-69-1	Aroclor 1254	ND	37	18	ug/kg	
11096-82-5	Aroclor 1260	106	37	16	ug/kg	
11100-14-4	Aroclor 1268	ND	37	13	ug/kg	
37324-23-5	Aroclor 1262	ND	37	25	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	99%		24-152%
877-09-8	Tetrachloro-m-xylene	115%		24-152%
2051-24-3	Decachlorobiphenyl	81%		10-166%
2051-24-3	Decachlorobiphenyl	122%		10-166%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-6 (5-7)	Date Sampled: 03/21/17
Lab Sample ID: JC39408-8	Date Received: 03/22/17
Matrix: SO - Soil	Percent Solids: 86.3
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	< 23	23	mg/kg	10	03/24/17	03/28/17 ND	SW846 6010C ³	SW846 3050B ⁴
Arsenic	21.5	2.3	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ⁴
Beryllium	< 0.23	0.23	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ⁴
Cadmium ^a	< 5.7	5.7	mg/kg	10	03/24/17	03/28/17 ND	SW846 6010C ³	SW846 3050B ⁴
Chromium	181	1.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ⁴
Copper ^a	344	29	mg/kg	10	03/24/17	03/28/17 ND	SW846 6010C ³	SW846 3050B ⁴
Lead ^a	847	23	mg/kg	10	03/24/17	03/28/17 ND	SW846 6010C ³	SW846 3050B ⁴
Mercury	0.87	0.037	mg/kg	1	03/27/17	03/27/17 JPM	SW846 7471B ¹	SW846 7471B ⁵
Nickel ^a	124	46	mg/kg	10	03/24/17	03/28/17 ND	SW846 6010C ³	SW846 3050B ⁴
Selenium ^a	< 23	23	mg/kg	10	03/24/17	03/28/17 ND	SW846 6010C ³	SW846 3050B ⁴
Silver ^a	< 5.7	5.7	mg/kg	10	03/24/17	03/28/17 ND	SW846 6010C ³	SW846 3050B ⁴
Thallium ^a	< 11	11	mg/kg	10	03/24/17	03/28/17 ND	SW846 6010C ³	SW846 3050B ⁴
Zinc	457	5.7	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ⁴

- (1) Instrument QC Batch: MA41646
- (2) Instrument QC Batch: MA41648
- (3) Instrument QC Batch: MA41659
- (4) Prep QC Batch: MP99446
- (5) Prep QC Batch: MP99495

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID: SB-7 (5-8)		Date Sampled: 03/21/17
Lab Sample ID: JC39408-9		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 85.2
Method: SW846 8260C SW846 5035		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X171021.D	1	03/25/17	TP	03/23/17 10:00	n/a	VX7266
Run #2							

	Initial Weight
Run #1	7.2 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	8.2	4.1	ug/kg	
71-43-2	Benzene	ND	0.41	0.098	ug/kg	
74-97-5	Bromochloromethane	ND	4.1	0.26	ug/kg	
75-27-4	Bromodichloromethane	ND	1.6	0.12	ug/kg	
75-25-2	Bromoform	ND	4.1	0.22	ug/kg	
74-83-9	Bromomethane	ND	4.1	0.40	ug/kg	
78-93-3	2-Butanone (MEK)	ND	8.2	1.4	ug/kg	
75-15-0	Carbon disulfide	ND	1.6	0.14	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.6	0.14	ug/kg	
108-90-7	Chlorobenzene	ND	1.6	0.13	ug/kg	
75-00-3	Chloroethane	ND	4.1	0.35	ug/kg	
67-66-3	Chloroform	ND	1.6	0.19	ug/kg	
74-87-3	Chloromethane	ND	4.1	0.17	ug/kg	
110-82-7	Cyclohexane	ND	1.6	0.45	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.39	ug/kg	
124-48-1	Dibromochloromethane	ND	1.6	0.12	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.82	0.20	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.82	0.14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.82	0.11	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.82	0.12	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.1	0.44	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.82	0.15	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.82	0.14	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.82	0.12	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.82	0.36	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.82	0.13	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.6	0.25	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	0.16	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	0.18	ug/kg	
100-41-4	Ethylbenzene	ND	0.82	0.12	ug/kg	
76-13-1	Freon 113	ND	4.1	0.39	ug/kg	
591-78-6	2-Hexanone	ND	4.1	1.1	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-7 (5-8)	Date Sampled:	03/21/17
Lab Sample ID:	JC39408-9	Date Received:	03/22/17
Matrix:	SO - Soil	Percent Solids:	85.2
Method:	SW846 8260C SW846 5035		
Project:	1217000088, 159-161 Alexander Street, Yonkers, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene ^b	ND	1.6	0.13	ug/kg	
79-20-9	Methyl Acetate	ND	4.1	1.7	ug/kg	
108-87-2	Methylcyclohexane	ND	1.6	0.41	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.82	0.22	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.1	0.69	ug/kg	
75-09-2	Methylene chloride	ND	4.1	0.82	ug/kg	
100-42-5	Styrene	ND	1.6	0.12	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.6	0.19	ug/kg	
127-18-4	Tetrachloroethene	ND	1.6	0.23	ug/kg	
108-88-3	Toluene	ND	0.82	0.10	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.1	0.41	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.1	0.41	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.6	0.14	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.6	0.26	ug/kg	
79-01-6	Trichloroethene	ND	0.82	0.15	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.1	0.51	ug/kg	
75-01-4	Vinyl chloride	ND	1.6	0.16	ug/kg	
	m,p-Xylene	ND	0.82	0.18	ug/kg	
95-47-6	o-Xylene	ND	0.82	0.16	ug/kg	
1330-20-7	Xylene (total)	ND	0.82	0.16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		70-122%
17060-07-0	1,2-Dichloroethane-D4	107%		68-124%
2037-26-5	Toluene-D8	93%		77-125%
460-00-4	4-Bromofluorobenzene	104%		72-130%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

(b) This compound in BS is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-7 (5-8)		Date Sampled: 03/21/17
Lab Sample ID: JC39408-9		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 85.2
Method: SW846 8270D SW846 3546		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P35872.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	77	19	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	24	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	69	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	190	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	190	41	ug/kg	
95-48-7	2-Methylphenol	ND	77	25	ug/kg	
	3&4-Methylphenol	ND	77	32	ug/kg	
88-75-5	2-Nitrophenol	ND	190	26	ug/kg	
100-02-7	4-Nitrophenol	ND	390	100	ug/kg	
87-86-5	Pentachlorophenol	ND	150	36	ug/kg	
108-95-2	Phenol	ND	77	20	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	26	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	29	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	23	ug/kg	
83-32-9	Acenaphthene	46.7	39	13	ug/kg	
208-96-8	Acenaphthylene	88.1	39	20	ug/kg	
98-86-2	Acetophenone	ND	190	8.3	ug/kg	
120-12-7	Anthracene	181	39	24	ug/kg	
1912-24-9	Atrazine	ND	77	17	ug/kg	
56-55-3	Benzo(a)anthracene	656	39	11	ug/kg	
50-32-8	Benzo(a)pyrene	654	39	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	599	39	17	ug/kg	
191-24-2	Benzo(g,h,i)perylene	458	39	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	207	39	18	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	77	15	ug/kg	
85-68-7	Butyl benzyl phthalate	94.3	77	9.4	ug/kg	
92-52-4	1,1'-Biphenyl	ND	77	5.3	ug/kg	
100-52-7	Benzaldehyde	ND	190	9.6	ug/kg	
91-58-7	2-Chloronaphthalene	ND	77	9.2	ug/kg	
106-47-8	4-Chloroaniline	ND	190	14	ug/kg	
86-74-8	Carbazole	42.7	77	5.6	ug/kg	J

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-7 (5-8)	
Lab Sample ID: JC39408-9	Date Sampled: 03/21/17
Matrix: SO - Soil	Date Received: 03/22/17
Method: SW846 8270D SW846 3546	Percent Solids: 85.2
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	77	15	ug/kg	
218-01-9	Chrysene	598	39	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	77	8.3	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	77	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	77	14	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	77	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	39	12	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	39	19	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	77	32	ug/kg	
123-91-1	1,4-Dioxane	ND	39	26	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	107	39	17	ug/kg	
132-64-9	Dibenzofuran	19.8	77	16	ug/kg	J
84-74-2	Di-n-butyl phthalate	76.0	77	6.3	ug/kg	J
117-84-0	Di-n-octyl phthalate	ND	77	9.6	ug/kg	
84-66-2	Diethyl phthalate	ND	77	8.2	ug/kg	
131-11-3	Dimethyl phthalate	ND	77	6.9	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	110	77	9.0	ug/kg	
206-44-0	Fluoranthene	1100	39	17	ug/kg	
86-73-7	Fluorene	39.8	39	18	ug/kg	
118-74-1	Hexachlorobenzene	ND	77	9.8	ug/kg	
87-68-3	Hexachlorobutadiene	ND	39	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	390	15	ug/kg	
67-72-1	Hexachloroethane	ND	190	19	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	361	39	18	ug/kg	
78-59-1	Isophorone	ND	77	8.3	ug/kg	
91-57-6	2-Methylnaphthalene	28.5	77	8.7	ug/kg	J
88-74-4	2-Nitroaniline	ND	190	9.1	ug/kg	
99-09-2	3-Nitroaniline	ND	190	9.7	ug/kg	
100-01-6	4-Nitroaniline	ND	190	10	ug/kg	
91-20-3	Naphthalene	38.6	39	11	ug/kg	J
98-95-3	Nitrobenzene	ND	77	15	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	77	11	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	14	ug/kg	
85-01-8	Phenanthrene	689	39	13	ug/kg	
129-00-0	Pyrene	1250	39	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	9.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	70%		23-115%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-7 (5-8)	
Lab Sample ID: JC39408-9	Date Sampled: 03/21/17
Matrix: SO - Soil	Date Received: 03/22/17
Method: SW846 8270D SW846 3546	Percent Solids: 85.2
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	76%		27-114%
118-79-6	2,4,6-Tribromophenol	62%		19-152%
4165-60-0	Nitrobenzene-d5	71%		26-134%
321-60-8	2-Fluorobiphenyl	79%		39-124%
1718-51-0	Terphenyl-d14	82%		36-134%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-7 (5-8)	
Lab Sample ID: JC39408-9	Date Sampled: 03/21/17
Matrix: SO - Soil	Date Received: 03/22/17
Method: SW846 8082A SW846 3546	Percent Solids: 85.2
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX207089.D	1	03/27/17	HB	03/24/17	OP1371	GXX5976
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	16.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	17	ug/kg	
11104-28-2	Aroclor 1221	ND	35	17	ug/kg	
11141-16-5	Aroclor 1232	ND	35	14	ug/kg	
53469-21-9	Aroclor 1242	ND	35	12	ug/kg	
12672-29-6	Aroclor 1248	ND	35	22	ug/kg	
11097-69-1	Aroclor 1254	ND	35	17	ug/kg	
11096-82-5	Aroclor 1260	141	35	15	ug/kg	
11100-14-4	Aroclor 1268	ND	35	12	ug/kg	
37324-23-5	Aroclor 1262	ND	35	24	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	115%		24-152%
877-09-8	Tetrachloro-m-xylene	131%		24-152%
2051-24-3	Decachlorobiphenyl	172% ^a		10-166%
2051-24-3	Decachlorobiphenyl	207% ^a		10-166%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: SB-7 (5-8)	Date Sampled: 03/21/17
Lab Sample ID: JC39408-9	Date Received: 03/22/17
Matrix: SO - Soil	Percent Solids: 85.2
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.3	2.3	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Arsenic	6.9	2.3	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Beryllium	0.43	0.23	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Cadmium	< 0.57	0.57	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Chromium	64.8	1.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Copper	34.2	2.8	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Lead	279	2.3	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Mercury	1.5	0.077	mg/kg	2	03/27/17	03/27/17 JPM	SW846 7471B ¹	SW846 7471B ⁴
Nickel	19.6	4.6	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Selenium	< 2.3	2.3	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Silver	< 0.57	0.57	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Thallium	< 1.1	1.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Zinc	134	5.7	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³

- (1) Instrument QC Batch: MA41646
- (2) Instrument QC Batch: MA41648
- (3) Prep QC Batch: MP99446
- (4) Prep QC Batch: MP99495

RL = Reporting Limit

Report of Analysis

Client Sample ID: SB-8 (4-4.5)	
Lab Sample ID: JC39408-10	Date Sampled: 03/21/17
Matrix: SO - Soil	Date Received: 03/22/17
Method: SW846 8082A SW846 3546	Percent Solids: 86.5
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX207090.D	1	03/27/17	HB	03/24/17	OP1371	GXX5976
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	39	19	ug/kg	
11104-28-2	Aroclor 1221	ND	39	19	ug/kg	
11141-16-5	Aroclor 1232	ND	39	15	ug/kg	
53469-21-9	Aroclor 1242	ND	39	14	ug/kg	
12672-29-6	Aroclor 1248	ND	39	24	ug/kg	
11097-69-1	Aroclor 1254	ND	39	19	ug/kg	
11096-82-5	Aroclor 1260	ND	39	16	ug/kg	
11100-14-4	Aroclor 1268	ND	39	14	ug/kg	
37324-23-5	Aroclor 1262	251	39	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	104%		24-152%
877-09-8	Tetrachloro-m-xylene	116%		24-152%
2051-24-3	Decachlorobiphenyl	92%		10-166%
2051-24-3	Decachlorobiphenyl	119%		10-166%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-8 (5-7)		Date Sampled: 03/21/17
Lab Sample ID: JC39408-11		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 88.7
Method: SW846 8260C SW846 5035		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X171022.D	1	03/25/17	TP	03/23/17 10:00	n/a	VX7266
Run #2							

	Initial Weight
Run #1	6.7 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	14.5	8.4	4.2	ug/kg	
71-43-2	Benzene	ND	0.42	0.10	ug/kg	
74-97-5	Bromochloromethane	ND	4.2	0.27	ug/kg	
75-27-4	Bromodichloromethane	ND	1.7	0.13	ug/kg	
75-25-2	Bromoform	ND	4.2	0.22	ug/kg	
74-83-9	Bromomethane	ND	4.2	0.41	ug/kg	
78-93-3	2-Butanone (MEK)	ND	8.4	1.5	ug/kg	
75-15-0	Carbon disulfide	ND	1.7	0.14	ug/kg	
56-23-5	Carbon tetrachloride	ND	1.7	0.14	ug/kg	
108-90-7	Chlorobenzene	ND	1.7	0.14	ug/kg	
75-00-3	Chloroethane	ND	4.2	0.36	ug/kg	
67-66-3	Chloroform	ND	1.7	0.20	ug/kg	
74-87-3	Chloromethane	ND	4.2	0.18	ug/kg	
110-82-7	Cyclohexane	ND	1.7	0.46	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.41	ug/kg	
124-48-1	Dibromochloromethane	ND	1.7	0.13	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.84	0.20	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.84	0.14	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.84	0.12	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.84	0.13	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.2	0.46	ug/kg	
75-34-3	1,1-Dichloroethane	ND	0.84	0.16	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.84	0.14	ug/kg	
75-35-4	1,1-Dichloroethene	ND	0.84	0.13	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.84	0.37	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.84	0.13	ug/kg	
78-87-5	1,2-Dichloropropane	ND	1.7	0.26	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	0.16	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	0.19	ug/kg	
100-41-4	Ethylbenzene	ND	0.84	0.13	ug/kg	
76-13-1	Freon 113	ND	4.2	0.41	ug/kg	
591-78-6	2-Hexanone	ND	4.2	1.2	ug/kg	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-8 (5-7)	Date Sampled:	03/21/17
Lab Sample ID:	JC39408-11	Date Received:	03/22/17
Matrix:	SO - Soil	Percent Solids:	88.7
Method:	SW846 8260C SW846 5035		
Project:	1217000088, 159-161 Alexander Street, Yonkers, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene ^b	ND	1.7	0.13	ug/kg	
79-20-9	Methyl Acetate	ND	4.2	1.7	ug/kg	
108-87-2	Methylcyclohexane	ND	1.7	0.42	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.84	0.22	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.2	0.71	ug/kg	
75-09-2	Methylene chloride	ND	4.2	0.84	ug/kg	
100-42-5	Styrene	ND	1.7	0.12	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.7	0.20	ug/kg	
127-18-4	Tetrachloroethene	ND	1.7	0.24	ug/kg	
108-88-3	Toluene	ND	0.84	0.11	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.2	0.42	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.2	0.42	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	1.7	0.14	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	1.7	0.27	ug/kg	
79-01-6	Trichloroethene	ND	0.84	0.16	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.2	0.53	ug/kg	
75-01-4	Vinyl chloride	ND	1.7	0.17	ug/kg	
	m,p-Xylene	ND	0.84	0.18	ug/kg	
95-47-6	o-Xylene	ND	0.84	0.17	ug/kg	
1330-20-7	Xylene (total)	ND	0.84	0.17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		70-122%
17060-07-0	1,2-Dichloroethane-D4	107%		68-124%
2037-26-5	Toluene-D8	94%		77-125%
460-00-4	4-Bromofluorobenzene	108%		72-130%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

(b) This compound in BS is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-8 (5-7)		Date Sampled: 03/21/17
Lab Sample ID: JC39408-11		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 88.7
Method: SW846 8270D SW846 3546		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P35874.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	74	18	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	23	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	32	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	66	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	190	140	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	190	40	ug/kg	
95-48-7	2-Methylphenol	ND	74	24	ug/kg	
	3&4-Methylphenol	ND	74	30	ug/kg	
88-75-5	2-Nitrophenol	ND	190	25	ug/kg	
100-02-7	4-Nitrophenol	ND	370	99	ug/kg	
87-86-5	Pentachlorophenol	ND	150	35	ug/kg	
108-95-2	Phenol	ND	74	19	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	25	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	28	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	22	ug/kg	
83-32-9	Acenaphthene	43.9	37	13	ug/kg	
208-96-8	Acenaphthylene	107	37	19	ug/kg	
98-86-2	Acetophenone	ND	190	8.0	ug/kg	
120-12-7	Anthracene	166	37	23	ug/kg	
1912-24-9	Atrazine	ND	74	16	ug/kg	
56-55-3	Benzo(a)anthracene	571	37	10	ug/kg	
50-32-8	Benzo(a)pyrene	578	37	17	ug/kg	
205-99-2	Benzo(b)fluoranthene	612	37	16	ug/kg	
191-24-2	Benzo(g,h,i)perylene	509	37	19	ug/kg	
207-08-9	Benzo(k)fluoranthene	177	37	17	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	74	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	74	9.0	ug/kg	
92-52-4	1,1'-Biphenyl	ND	74	5.1	ug/kg	
100-52-7	Benzaldehyde	ND	190	9.2	ug/kg	
91-58-7	2-Chloronaphthalene	ND	74	8.8	ug/kg	
106-47-8	4-Chloroaniline	ND	190	13	ug/kg	
86-74-8	Carbazole	52.7	74	5.4	ug/kg	J

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-8 (5-7)			
Lab Sample ID: JC39408-11		Date Sampled: 03/21/17	
Matrix: SO - Soil		Date Received: 03/22/17	
Method: SW846 8270D SW846 3546		Percent Solids: 88.7	
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY			

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	74	15	ug/kg	
218-01-9	Chrysene	507	37	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	74	7.9	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	74	16	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	74	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	74	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	37	11	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	37	19	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	74	31	ug/kg	
123-91-1	1,4-Dioxane	ND	37	25	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	112	37	16	ug/kg	
132-64-9	Dibenzofuran	26.0	74	15	ug/kg	J
84-74-2	Di-n-butyl phthalate	69.9	74	6.0	ug/kg	J
117-84-0	Di-n-octyl phthalate	ND	74	9.2	ug/kg	
84-66-2	Diethyl phthalate	ND	74	7.9	ug/kg	
131-11-3	Dimethyl phthalate	ND	74	6.6	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	105	74	8.7	ug/kg	
206-44-0	Fluoranthene	1050	37	17	ug/kg	
86-73-7	Fluorene	44.4	37	17	ug/kg	
118-74-1	Hexachlorobenzene	ND	74	9.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	37	15	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	370	15	ug/kg	
67-72-1	Hexachloroethane	ND	190	18	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	371	37	17	ug/kg	
78-59-1	Isophorone	ND	74	7.9	ug/kg	
91-57-6	2-Methylnaphthalene	22.3	74	8.4	ug/kg	J
88-74-4	2-Nitroaniline	ND	190	8.8	ug/kg	
99-09-2	3-Nitroaniline	ND	190	9.3	ug/kg	
100-01-6	4-Nitroaniline	ND	190	9.6	ug/kg	
91-20-3	Naphthalene	45.0	37	10	ug/kg	
98-95-3	Nitrobenzene	ND	74	14	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	74	11	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	14	ug/kg	
85-01-8	Phenanthrene	554	37	12	ug/kg	
129-00-0	Pyrene	962	37	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	9.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	91%		23-115%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-8 (5-7)	
Lab Sample ID: JC39408-11	Date Sampled: 03/21/17
Matrix: SO - Soil	Date Received: 03/22/17
Method: SW846 8270D SW846 3546	Percent Solids: 88.7
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	87%		27-114%
118-79-6	2,4,6-Tribromophenol	105%		19-152%
4165-60-0	Nitrobenzene-d5	87%		26-134%
321-60-8	2-Fluorobiphenyl	90%		39-124%
1718-51-0	Terphenyl-d14	97%		36-134%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-8 (5-7)	Date Sampled: 03/21/17
Lab Sample ID: JC39408-11	Date Received: 03/22/17
Matrix: SO - Soil	Percent Solids: 88.7
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.2	2.2	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Arsenic	< 2.2	2.2	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Beryllium	< 0.22	0.22	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Cadmium	< 0.54	0.54	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Chromium	13.2	1.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Copper	22.3	2.7	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Lead	16.7	2.2	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Mercury	0.11	0.037	mg/kg	1	03/27/17	03/27/17 JPM	SW846 7471B ¹	SW846 7471B ⁴
Nickel	15.6	4.3	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Selenium	< 2.2	2.2	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Silver	< 0.54	0.54	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Thallium	< 1.1	1.1	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³
Zinc	39.7	5.4	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: MA41646

(2) Instrument QC Batch: MA41648

(3) Prep QC Batch: MP99446

(4) Prep QC Batch: MP99495

RL = Reporting Limit

Report of Analysis

Client Sample ID: SB-9 (2-4)		Date Sampled: 03/21/17
Lab Sample ID: JC39408-12		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 81.5
Method: SW846 8260C SW846 5035		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	X171023.D	1	03/25/17	TP	03/23/17 10:00	n/a	VX7266
Run #2							

	Initial Weight
Run #1	5.9 g
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	35.4	10	5.2	ug/kg	
71-43-2	Benzene	ND	0.52	0.12	ug/kg	
74-97-5	Bromochloromethane	ND	5.2	0.33	ug/kg	
75-27-4	Bromodichloromethane	ND	2.1	0.16	ug/kg	
75-25-2	Bromoform	ND	5.2	0.28	ug/kg	
74-83-9	Bromomethane	ND	5.2	0.50	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	1.8	ug/kg	
75-15-0	Carbon disulfide	ND	2.1	0.18	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.1	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	2.1	0.17	ug/kg	
75-00-3	Chloroethane	ND	5.2	0.45	ug/kg	
67-66-3	Chloroform	ND	2.1	0.25	ug/kg	
74-87-3	Chloromethane	ND	5.2	0.22	ug/kg	
110-82-7	Cyclohexane	ND	2.1	0.57	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.1	0.50	ug/kg	
124-48-1	Dibromochloromethane	ND	2.1	0.16	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.25	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.18	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.16	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.2	0.57	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.18	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.16	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.46	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.1	0.32	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.1	0.20	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.1	0.23	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.15	ug/kg	
76-13-1	Freon 113	ND	5.2	0.50	ug/kg	
591-78-6	2-Hexanone	ND	5.2	1.4	ug/kg	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-9 (2-4)	Date Sampled:	03/21/17
Lab Sample ID:	JC39408-12	Date Received:	03/22/17
Matrix:	SO - Soil	Percent Solids:	81.5
Method:	SW846 8260C SW846 5035		
Project:	1217000088, 159-161 Alexander Street, Yonkers, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene ^b	ND	2.1	0.16	ug/kg	
79-20-9	Methyl Acetate	ND	5.2	2.1	ug/kg	
108-87-2	Methylcyclohexane	ND	2.1	0.53	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.28	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.2	0.88	ug/kg	
75-09-2	Methylene chloride	1.1	5.2	1.0	ug/kg	J
100-42-5	Styrene	ND	2.1	0.15	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.1	0.25	ug/kg	
127-18-4	Tetrachloroethene	ND	2.1	0.29	ug/kg	
108-88-3	Toluene	ND	1.0	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.2	0.52	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	0.52	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.1	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.1	0.34	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.20	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.2	0.65	ug/kg	
75-01-4	Vinyl chloride	ND	2.1	0.21	ug/kg	
	m,p-Xylene	ND	1.0	0.23	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.21	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		70-122%
17060-07-0	1,2-Dichloroethane-D4	108%		68-124%
2037-26-5	Toluene-D8	96%		77-125%
460-00-4	4-Bromofluorobenzene	107%		72-130%

(a) Sample was not collected per 5035A specifications. Sample preserved from intact soil by laboratory.

(b) This compound in BS is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-9 (2-4)		Date Sampled: 03/21/17
Lab Sample ID: JC39408-12		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 81.5
Method: SW846 8270D SW846 3546		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6P35875.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	81	20	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	200	25	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	200	35	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	200	72	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	200	150	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	200	43	ug/kg	
95-48-7	2-Methylphenol	ND	81	26	ug/kg	
	3&4-Methylphenol	ND	81	33	ug/kg	
88-75-5	2-Nitrophenol	ND	200	27	ug/kg	
100-02-7	4-Nitrophenol	ND	400	110	ug/kg	
87-86-5	Pentachlorophenol	ND	160	38	ug/kg	
108-95-2	Phenol	ND	81	21	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	200	27	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	200	30	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	200	24	ug/kg	
83-32-9	Acenaphthene	171	40	14	ug/kg	
208-96-8	Acenaphthylene	30.2	40	21	ug/kg	J
98-86-2	Acetophenone	ND	200	8.7	ug/kg	
120-12-7	Anthracene	280	40	25	ug/kg	
1912-24-9	Atrazine	ND	81	17	ug/kg	
56-55-3	Benzo(a)anthracene	1040	40	11	ug/kg	
50-32-8	Benzo(a)pyrene	814	40	18	ug/kg	
205-99-2	Benzo(b)fluoranthene	643	40	18	ug/kg	
191-24-2	Benzo(g,h,i)perylene	574	40	20	ug/kg	
207-08-9	Benzo(k)fluoranthene	231	40	19	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	81	16	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	81	9.9	ug/kg	
92-52-4	1,1'-Biphenyl	ND	81	5.5	ug/kg	
100-52-7	Benzaldehyde	ND	200	10	ug/kg	
91-58-7	2-Chloronaphthalene	ND	81	9.6	ug/kg	
106-47-8	4-Chloroaniline	ND	200	15	ug/kg	
86-74-8	Carbazole	24.1	81	5.9	ug/kg	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-9 (2-4)		Date Sampled: 03/21/17
Lab Sample ID: JC39408-12		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 81.5
Method: SW846 8270D SW846 3546		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	81	16	ug/kg	
218-01-9	Chrysene	1010	40	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	81	8.7	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	81	17	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	81	15	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	81	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	40	13	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	40	20	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	81	34	ug/kg	
123-91-1	1,4-Dioxane	ND	40	27	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	146	40	18	ug/kg	
132-64-9	Dibenzofuran	23.2	81	16	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	81	6.6	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	81	10	ug/kg	
84-66-2	Diethyl phthalate	ND	81	8.6	ug/kg	
131-11-3	Dimethyl phthalate	ND	81	7.2	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	126	81	9.5	ug/kg	
206-44-0	Fluoranthene	1600	40	18	ug/kg	
86-73-7	Fluorene	127	40	19	ug/kg	
118-74-1	Hexachlorobenzene	ND	81	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	40	16	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	400	16	ug/kg	
67-72-1	Hexachloroethane	ND	200	20	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	395	40	19	ug/kg	
78-59-1	Isophorone	ND	81	8.7	ug/kg	
91-57-6	2-Methylnaphthalene	29.0	81	9.2	ug/kg	J
88-74-4	2-Nitroaniline	ND	200	9.6	ug/kg	
99-09-2	3-Nitroaniline	ND	200	10	ug/kg	
100-01-6	4-Nitroaniline	ND	200	10	ug/kg	
91-20-3	Naphthalene	37.3	40	11	ug/kg	J
98-95-3	Nitrobenzene	ND	81	16	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	81	12	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	15	ug/kg	
85-01-8	Phenanthrene	1920	40	14	ug/kg	
129-00-0	Pyrene	2490	40	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	200	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	80%		23-115%

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Report of Analysis

Client Sample ID: SB-9 (2-4)		Date Sampled: 03/21/17
Lab Sample ID: JC39408-12		Date Received: 03/22/17
Matrix: SO - Soil		Percent Solids: 81.5
Method: SW846 8270D SW846 3546		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	75%		27-114%
118-79-6	2,4,6-Tribromophenol	48%		19-152%
4165-60-0	Nitrobenzene-d5	79%		26-134%
321-60-8	2-Fluorobiphenyl	74%		39-124%
1718-51-0	Terphenyl-d14	75%		36-134%

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 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-9 (2-4)		
Lab Sample ID: JC39408-12		Date Sampled: 03/21/17
Matrix: SO - Soil		Date Received: 03/22/17
Method: SW846 8082A SW846 3546		Percent Solids: 81.5
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX207100.D	1	03/27/17	HB	03/24/17	OP1371	GXX5976
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	39	19	ug/kg	
11104-28-2	Aroclor 1221	ND	39	19	ug/kg	
11141-16-5	Aroclor 1232	ND	39	15	ug/kg	
53469-21-9	Aroclor 1242	ND	39	14	ug/kg	
12672-29-6	Aroclor 1248	ND	39	25	ug/kg	
11097-69-1	Aroclor 1254	ND	39	19	ug/kg	
11096-82-5	Aroclor 1260	ND	39	16	ug/kg	
11100-14-4	Aroclor 1268	ND	39	14	ug/kg	
37324-23-5	Aroclor 1262	ND	39	26	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		24-152%
877-09-8	Tetrachloro-m-xylene	98%		24-152%
2051-24-3	Decachlorobiphenyl	79%		10-166%
2051-24-3	Decachlorobiphenyl	118%		10-166%

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 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-9 (2-4)	Date Sampled: 03/21/17
Lab Sample ID: JC39408-12	Date Received: 03/22/17
Matrix: SO - Soil	Percent Solids: 81.5
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 2.4	2.4	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ⁴
Arsenic	5.4	2.4	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ⁴
Beryllium ^a	< 0.47	0.47	mg/kg	2	03/24/17	03/28/17 ND	SW846 6010C ³	SW846 3050B ⁴
Cadmium	< 0.59	0.59	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ⁴
Chromium	31.9	1.2	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ⁴
Copper	85.0	2.9	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ⁴
Lead	80.9	2.4	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ⁴
Mercury	0.058	0.041	mg/kg	1	03/27/17	03/27/17 JPM	SW846 7471B ¹	SW846 7471B ⁵
Nickel	42.5	4.7	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ⁴
Selenium	< 2.4	2.4	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ⁴
Silver	< 0.59	0.59	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ⁴
Thallium ^a	< 2.4	2.4	mg/kg	2	03/24/17	03/28/17 ND	SW846 6010C ³	SW846 3050B ⁴
Zinc	101	5.9	mg/kg	1	03/24/17	03/27/17 AB	SW846 6010C ²	SW846 3050B ⁴

- (1) Instrument QC Batch: MA41646
- (2) Instrument QC Batch: MA41648
- (3) Instrument QC Batch: MA41659
- (4) Prep QC Batch: MP99446
- (5) Prep QC Batch: MP99495

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID: SB-2		Date Sampled: 03/21/17
Lab Sample ID: JC39408-13		Date Received: 03/22/17
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260C		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A177290.D	1	03/24/17	JC	n/a	n/a	V2A7505
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.33	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.73	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	5.0	1.2	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.5	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-2		Date Sampled: 03/21/17
Lab Sample ID: JC39408-13		Date Received: 03/22/17
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260C		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.78	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		76-120%
17060-07-0	1,2-Dichloroethane-D4	101%		73-122%
2037-26-5	Toluene-D8	100%		84-119%
460-00-4	4-Bromofluorobenzene	99%		78-117%

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 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-2		
Lab Sample ID: JC39408-13		Date Sampled: 03/21/17
Matrix: AQ - Ground Water		Date Received: 03/22/17
Method: SW846 8270D SW846 3510C		Percent Solids: n/a
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z119965.D	1	03/27/17	AC	03/24/17	OP1380	EZ5958
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.1	0.83	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.1	0.90	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.1	2.5	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.1	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.90	ug/l	
	3&4-Methylphenol	ND	2.0	0.89	ug/l	
88-75-5	2-Nitrophenol	ND	5.1	0.97	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	4.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.40	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.1	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.1	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.1	0.93	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
98-86-2	Acetophenone	ND	2.0	0.21	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
1912-24-9	Atrazine	ND	2.0	0.45	ug/l	
100-52-7	Benzaldehyde	ND	5.1	0.29	ug/l	
56-55-3	Benzo(a)anthracene	1.1	1.0	0.21	ug/l	
50-32-8	Benzo(a)pyrene	1.1	1.0	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	1.2	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.74	1.0	0.34	ug/l	J
207-08-9	Benzo(k)fluoranthene	0.49	1.0	0.21	ug/l	J
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.41	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.21	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.1	0.34	ug/l	
86-74-8	Carbazole	ND	1.0	0.23	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-2		Date Sampled: 03/21/17
Lab Sample ID: JC39408-13		Date Received: 03/22/17
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270D SW846 3510C		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.0	0.66	ug/l	
218-01-9	Chrysene	0.99	1.0	0.18	ug/l	J
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.41	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.56	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.66	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
132-64-9	Dibenzofuran	ND	5.1	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.24	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	1.7	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.50	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.77	1.0	0.34	ug/l	J
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.1	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	5.1	0.39	ug/l	
100-01-6	4-Nitroaniline	ND	5.1	0.44	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.65	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.49	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	0.22	ug/l	
85-01-8	Phenanthrene	1.0	1.0	0.18	ug/l	
129-00-0	Pyrene	1.9	1.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.37	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	46%		10-110%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-2		Date Sampled: 03/21/17
Lab Sample ID: JC39408-13		Date Received: 03/22/17
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270D SW846 3510C		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	31%		10-110%
118-79-6	2,4,6-Tribromophenol	104%		36-151%
4165-60-0	Nitrobenzene-d5	99%		34-128%
321-60-8	2-Fluorobiphenyl	82%		38-119%
1718-51-0	Terphenyl-d14	57%		26-129%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-2	Date Sampled: 03/21/17
Lab Sample ID: JC39408-13F	Date Received: 03/22/17
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Arsenic	< 3.0	3.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Beryllium	< 1.0	1.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Chromium	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Copper	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Lead	< 3.0	3.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	03/27/17	03/27/17 MS	SW846 7470A ¹	SW846 7470A ⁴
Nickel	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Selenium	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Silver	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Thallium	< 2.0	2.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Zinc	< 20	20	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³

- (1) Instrument QC Batch: MA41647
- (2) Instrument QC Batch: MA41657
- (3) Prep QC Batch: MP99464
- (4) Prep QC Batch: MP99499

RL = Reporting Limit

Report of Analysis

Client Sample ID: SB-3		
Lab Sample ID: JC39408-14		Date Sampled: 03/21/17
Matrix: AQ - Ground Water		Date Received: 03/22/17
Method: SW846 8260C		Percent Solids: n/a
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A177304.D	1	03/24/17	JC	n/a	n/a	V2A7505
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	1.5	0.50	0.14	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.33	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.73	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	11.8	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	5.0	1.2	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.5	ug/l	

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-3	Date Sampled:	03/21/17
Lab Sample ID:	JC39408-14	Date Received:	03/22/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	1217000088, 159-161 Alexander Street, Yonkers, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	14.6	1.0	0.16	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	2.2	5.0	0.78	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	2.9	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	2.9	1.0	0.42	ug/l	
95-47-6	o-Xylene	4.6	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	7.5	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		76-120%
17060-07-0	1,2-Dichloroethane-D4	100%		73-122%
2037-26-5	Toluene-D8	98%		84-119%
460-00-4	4-Bromofluorobenzene	100%		78-117%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-3		Date Sampled: 03/21/17
Lab Sample ID: JC39408-14		Date Received: 03/22/17
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270D SW846 3510C		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z119968.D	1	03/27/17	AC	03/24/17	OP1380	EZ5958
Run #2							

Run #	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.1	0.84	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.1	0.91	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.1	2.5	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.1	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.91	ug/l	
	3&4-Methylphenol	ND	2.0	0.90	ug/l	
88-75-5	2-Nitrophenol	ND	5.1	0.98	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	4.1	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.40	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.1	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.1	1.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.1	0.94	ug/l	
83-32-9	Acenaphthene	47.0	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	13.4	1.0	0.14	ug/l	
98-86-2	Acetophenone	ND	2.0	0.21	ug/l	
120-12-7	Anthracene	27.3	1.0	0.22	ug/l	
1912-24-9	Atrazine	ND	2.0	0.46	ug/l	
100-52-7	Benzaldehyde	ND	5.1	0.29	ug/l	
56-55-3	Benzo(a)anthracene	22.6	1.0	0.21	ug/l	
50-32-8	Benzo(a)pyrene	23.8	1.0	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	19.9	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	13.4	1.0	0.35	ug/l	
207-08-9	Benzo(k)fluoranthene	7.4	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.41	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.47	ug/l	
92-52-4	1,1'-Biphenyl	3.0	1.0	0.22	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.1	0.35	ug/l	
86-74-8	Carbazole	0.62	1.0	0.23	ug/l	J

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-3		Date Sampled: 03/21/17
Lab Sample ID: JC39408-14		Date Received: 03/22/17
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270D SW846 3510C		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	28%		10-110%
118-79-6	2,4,6-Tribromophenol	97%		36-151%
4165-60-0	Nitrobenzene-d5	86%		34-128%
321-60-8	2-Fluorobiphenyl	73%		38-119%
1718-51-0	Terphenyl-d14	57%		26-129%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-3	Date Sampled: 03/21/17
Lab Sample ID: JC39408-14F	Date Received: 03/22/17
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Arsenic	< 3.0	3.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Beryllium	< 1.0	1.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Chromium	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Copper	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Lead	< 3.0	3.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	03/27/17	03/27/17 MS	SW846 7470A ¹	SW846 7470A ⁴
Nickel	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Selenium	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Silver	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Thallium	< 2.0	2.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Zinc	< 20	20	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³

(1) Instrument QC Batch: MA41647

(2) Instrument QC Batch: MA41657

(3) Prep QC Batch: MP99464

(4) Prep QC Batch: MP99499

RL = Reporting Limit

Report of Analysis

Client Sample ID: SB-4		Date Sampled: 03/21/17
Lab Sample ID: JC39408-15		Date Received: 03/22/17
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260C		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A177291.D	1	03/24/17	JC	n/a	n/a	V2A7505
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.33	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.73	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	5.0	1.2	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.5	ug/l	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-4		Date Sampled: 03/21/17
Lab Sample ID: JC39408-15		Date Received: 03/22/17
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260C		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.78	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		76-120%
17060-07-0	1,2-Dichloroethane-D4	100%		73-122%
2037-26-5	Toluene-D8	99%		84-119%
460-00-4	4-Bromofluorobenzene	100%		78-117%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-4		
Lab Sample ID: JC39408-15		Date Sampled: 03/21/17
Matrix: AQ - Ground Water		Date Received: 03/22/17
Method: SW846 8270D SW846 3510C		Percent Solids: n/a
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z119969.D	1	03/27/17	AC	03/24/17	OP1380	EZ5958
Run #2							

Run #	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.6	0.91	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.6	0.99	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.2	1.4	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.6	2.7	ug/l	
51-28-5	2,4-Dinitrophenol	ND	11	1.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.6	1.4	ug/l	
95-48-7	2-Methylphenol	ND	2.2	0.99	ug/l	
	3&4-Methylphenol	ND	2.2	0.98	ug/l	
88-75-5	2-Nitrophenol	ND	5.6	1.1	ug/l	
100-02-7	4-Nitrophenol	ND	11	1.3	ug/l	
87-86-5	Pentachlorophenol	ND	4.4	1.5	ug/l	
108-95-2	Phenol	ND	2.2	0.44	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.6	1.6	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.6	1.5	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.6	1.0	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.21	ug/l	
208-96-8	Acenaphthylene	0.57	1.1	0.15	ug/l	J
98-86-2	Acetophenone	ND	2.2	0.23	ug/l	
120-12-7	Anthracene	0.73	1.1	0.23	ug/l	J
1912-24-9	Atrazine	ND	2.2	0.50	ug/l	
100-52-7	Benzaldehyde	ND	5.6	0.32	ug/l	
56-55-3	Benzo(a)anthracene	1.5	1.1	0.23	ug/l	
50-32-8	Benzo(a)pyrene	1.7	1.1	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	2.2	1.1	0.23	ug/l	
191-24-2	Benzo(g,h,i)perylene	1.2	1.1	0.38	ug/l	
207-08-9	Benzo(k)fluoranthene	0.88	1.1	0.23	ug/l	J
101-55-3	4-Bromophenyl phenyl ether	ND	2.2	0.45	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.2	0.51	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.24	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.2	0.26	ug/l	
106-47-8	4-Chloroaniline	ND	5.6	0.38	ug/l	
86-74-8	Carbazole	ND	1.1	0.25	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-4	Date Sampled: 03/21/17
Lab Sample ID: JC39408-15	Date Received: 03/22/17
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8270D SW846 3510C	
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.2	0.72	ug/l	
218-01-9	Chrysene	1.6	1.1	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.2	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.2	0.28	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.2	0.45	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.2	0.41	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.1	0.61	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.1	0.53	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.2	0.56	ug/l	
123-91-1	1,4-Dioxane	ND	1.1	0.73	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.37	ug/l	
132-64-9	Dibenzofuran	ND	5.6	0.24	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.2	0.55	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.2	0.26	ug/l	
84-66-2	Diethyl phthalate	ND	2.2	0.29	ug/l	
131-11-3	Dimethyl phthalate	ND	2.2	0.24	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	1.8	ug/l	
206-44-0	Fluoranthene	2.9	1.1	0.19	ug/l	
86-73-7	Fluorene	ND	1.1	0.19	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.36	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.55	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	3.1	ug/l	
67-72-1	Hexachloroethane	ND	2.2	0.43	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	1.4	1.1	0.37	ug/l	
78-59-1	Isophorone	ND	2.2	0.31	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.23	ug/l	
88-74-4	2-Nitroaniline	ND	5.6	0.31	ug/l	
99-09-2	3-Nitroaniline	ND	5.6	0.43	ug/l	
100-01-6	4-Nitroaniline	ND	5.6	0.49	ug/l	
91-20-3	Naphthalene	0.76	1.1	0.26	ug/l	J
98-95-3	Nitrobenzene	ND	2.2	0.71	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.2	0.53	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.25	ug/l	
85-01-8	Phenanthrene	2.5	1.1	0.19	ug/l	
129-00-0	Pyrene	2.8	1.1	0.24	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.2	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		10-110%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-4		Date Sampled: 03/21/17
Lab Sample ID: JC39408-15		Date Received: 03/22/17
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270D SW846 3510C		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	34%		10-110%
118-79-6	2,4,6-Tribromophenol	89%		36-151%
4165-60-0	Nitrobenzene-d5	99%		34-128%
321-60-8	2-Fluorobiphenyl	81%		38-119%
1718-51-0	Terphenyl-d14	59%		26-129%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-4	Date Sampled: 03/21/17
Lab Sample ID: JC39408-15F	Date Received: 03/22/17
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Arsenic	< 3.0	3.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Beryllium	< 1.0	1.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Chromium	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Copper	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Lead ^a	< 6.0	6.0	ug/l	2	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	03/27/17	03/27/17 MS	SW846 7470A ¹	SW846 7470A ⁴
Nickel	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Selenium	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Silver	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Thallium ^a	< 4.0	4.0	ug/l	2	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Zinc	< 20	20	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³

(1) Instrument QC Batch: MA41647

(2) Instrument QC Batch: MA41657

(3) Prep QC Batch: MP99464

(4) Prep QC Batch: MP99499

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SB-6		
Lab Sample ID:	JC39408-16	Date Sampled:	03/21/17
Matrix:	AQ - Ground Water	Date Received:	03/22/17
Method:	SW846 8260C	Percent Solids:	n/a
Project:	1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A177379.D	1	03/28/17	JC	n/a	n/a	V2A7509
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	0.37	0.50	0.14	ug/l	J
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane ^a	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.33	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.73	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene ^a	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene ^a	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113 ^a	ND	5.0	1.2	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.5	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-6		Date Sampled: 03/21/17
Lab Sample ID: JC39408-16		Date Received: 03/22/17
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260C		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.78	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		76-120%
17060-07-0	1,2-Dichloroethane-D4	106%		73-122%
2037-26-5	Toluene-D8	100%		84-119%
460-00-4	4-Bromofluorobenzene	102%		78-117%

(a) This compound in BS is outside in house QC limits bias high.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-6		
Lab Sample ID: JC39408-16		Date Sampled: 03/21/17
Matrix: AQ - Ground Water		Date Received: 03/22/17
Method: SW846 8270D SW846 3510C		Percent Solids: n/a
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z119970.D	1	03/27/17	AC	03/24/17	OP1380	EZ5958
Run #2							

Run #	Initial Volume	Final Volume
Run #1	910 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.5	0.90	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.5	0.98	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.2	1.4	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.5	2.7	ug/l	
51-28-5	2,4-Dinitrophenol	ND	11	1.7	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.5	1.4	ug/l	
95-48-7	2-Methylphenol	ND	2.2	0.98	ug/l	
	3&4-Methylphenol	ND	2.2	0.97	ug/l	
88-75-5	2-Nitrophenol	ND	5.5	1.1	ug/l	
100-02-7	4-Nitrophenol	ND	11	1.3	ug/l	
87-86-5	Pentachlorophenol	ND	4.4	1.5	ug/l	
108-95-2	Phenol	ND	2.2	0.43	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.5	1.6	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.5	1.5	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.5	1.0	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.21	ug/l	
208-96-8	Acenaphthylene	ND	1.1	0.15	ug/l	
98-86-2	Acetophenone	ND	2.2	0.23	ug/l	
120-12-7	Anthracene	0.65	1.1	0.23	ug/l	J
1912-24-9	Atrazine	ND	2.2	0.49	ug/l	
100-52-7	Benzaldehyde	ND	5.5	0.32	ug/l	
56-55-3	Benzo(a)anthracene	1.6	1.1	0.22	ug/l	
50-32-8	Benzo(a)pyrene	1.9	1.1	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	2.3	1.1	0.23	ug/l	
191-24-2	Benzo(g,h,i)perylene	1.7	1.1	0.37	ug/l	
207-08-9	Benzo(k)fluoranthene	0.81	1.1	0.23	ug/l	J
101-55-3	4-Bromophenyl phenyl ether	ND	2.2	0.44	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.2	0.50	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.23	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.2	0.26	ug/l	
106-47-8	4-Chloroaniline	ND	5.5	0.37	ug/l	
86-74-8	Carbazole	ND	1.1	0.25	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-6	Date Sampled: 03/21/17
Lab Sample ID: JC39408-16	Date Received: 03/22/17
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8270D SW846 3510C	
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.2	0.71	ug/l	
218-01-9	Chrysene	1.7	1.1	0.19	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.2	0.31	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.2	0.27	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.2	0.44	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.2	0.40	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.1	0.61	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.1	0.52	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.2	0.56	ug/l	
123-91-1	1,4-Dioxane	ND	1.1	0.72	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.36	ug/l	
132-64-9	Dibenzofuran	ND	5.5	0.24	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.2	0.55	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.2	0.26	ug/l	
84-66-2	Diethyl phthalate	ND	2.2	0.29	ug/l	
131-11-3	Dimethyl phthalate	ND	2.2	0.24	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.2	1.8	ug/l	
206-44-0	Fluoranthene	2.6	1.1	0.19	ug/l	
86-73-7	Fluorene	ND	1.1	0.19	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.36	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.54	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	3.1	ug/l	
67-72-1	Hexachloroethane	ND	2.2	0.43	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	1.4	1.1	0.36	ug/l	
78-59-1	Isophorone	ND	2.2	0.30	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.23	ug/l	
88-74-4	2-Nitroaniline	ND	5.5	0.30	ug/l	
99-09-2	3-Nitroaniline	ND	5.5	0.43	ug/l	
100-01-6	4-Nitroaniline	ND	5.5	0.48	ug/l	
91-20-3	Naphthalene	ND	1.1	0.25	ug/l	
98-95-3	Nitrobenzene	ND	2.2	0.71	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.2	0.53	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.5	0.24	ug/l	
85-01-8	Phenanthrene	1.5	1.1	0.19	ug/l	
129-00-0	Pyrene	2.7	1.1	0.24	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.2	0.41	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		10-110%

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-6		Date Sampled: 03/21/17
Lab Sample ID: JC39408-16		Date Received: 03/22/17
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270D SW846 3510C		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	30%		10-110%
118-79-6	2,4,6-Tribromophenol	86%		36-151%
4165-60-0	Nitrobenzene-d5	92%		34-128%
321-60-8	2-Fluorobiphenyl	63%		38-119%
1718-51-0	Terphenyl-d14	49%		26-129%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-6	Date Sampled: 03/21/17
Lab Sample ID: JC39408-16F	Date Received: 03/22/17
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Arsenic	< 3.0	3.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Beryllium	< 1.0	1.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Chromium	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Copper	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Lead ^a	< 6.0	6.0	ug/l	2	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	03/27/17	03/27/17 MS	SW846 7470A ¹	SW846 7470A ⁴
Nickel	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Selenium	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Silver	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Thallium ^a	< 4.0	4.0	ug/l	2	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Zinc	< 20	20	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³

(1) Instrument QC Batch: MA41647

(2) Instrument QC Batch: MA41657

(3) Prep QC Batch: MP99464

(4) Prep QC Batch: MP99499

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID: SB-7		Date Sampled: 03/21/17
Lab Sample ID: JC39408-17		Date Received: 03/22/17
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260C		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A177306.D	1	03/24/17	JC	n/a	n/a	V2A7505
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.33	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.73	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	5.0	1.2	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.5	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-7	Date Sampled:	03/21/17
Lab Sample ID:	JC39408-17	Date Received:	03/22/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260C		
Project:	1217000088, 159-161 Alexander Street, Yonkers, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.78	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		76-120%
17060-07-0	1,2-Dichloroethane-D4	100%		73-122%
2037-26-5	Toluene-D8	99%		84-119%
460-00-4	4-Bromofluorobenzene	101%		78-117%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-7		
Lab Sample ID: JC39408-17		Date Sampled: 03/21/17
Matrix: AQ - Ground Water		Date Received: 03/22/17
Method: SW846 8270D SW846 3510C		Percent Solids: n/a
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z119966.D	1	03/27/17	AC	03/24/17	OP1380	EZ5958
Run #2							

Run #	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.3	0.87	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.3	0.95	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.1	1.4	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.3	2.6	ug/l	
51-28-5	2,4-Dinitrophenol	ND	11	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.3	1.4	ug/l	
95-48-7	2-Methylphenol	ND	2.1	0.94	ug/l	
	3&4-Methylphenol	ND	2.1	0.94	ug/l	
88-75-5	2-Nitrophenol	ND	5.3	1.0	ug/l	
100-02-7	4-Nitrophenol	ND	11	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	4.3	1.5	ug/l	
108-95-2	Phenol	ND	2.1	0.42	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.3	1.6	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.3	1.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.3	0.98	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.20	ug/l	
208-96-8	Acenaphthylene	ND	1.1	0.14	ug/l	
98-86-2	Acetophenone	ND	2.1	0.22	ug/l	
120-12-7	Anthracene	ND	1.1	0.22	ug/l	
1912-24-9	Atrazine	ND	2.1	0.48	ug/l	
100-52-7	Benzaldehyde	ND	5.3	0.31	ug/l	
56-55-3	Benzo(a)anthracene	0.98	1.1	0.22	ug/l	J
50-32-8	Benzo(a)pyrene	1.3	1.1	0.23	ug/l	
205-99-2	Benzo(b)fluoranthene	1.4	1.1	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.89	1.1	0.36	ug/l	J
207-08-9	Benzo(k)fluoranthene	0.55	1.1	0.22	ug/l	J
101-55-3	4-Bromophenyl phenyl ether	ND	2.1	0.43	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.1	0.49	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.23	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.1	0.25	ug/l	
106-47-8	4-Chloroaniline	ND	5.3	0.36	ug/l	
86-74-8	Carbazole	ND	1.1	0.24	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-7	Date Sampled:	03/21/17
Lab Sample ID:	JC39408-17	Date Received:	03/22/17
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	1217000088, 159-161 Alexander Street, Yonkers, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.1	0.69	ug/l	
218-01-9	Chrysene	1.0	1.1	0.19	ug/l	J
111-91-1	bis(2-Chloroethoxy)methane	ND	2.1	0.30	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.1	0.26	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.1	0.43	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.1	0.39	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.1	0.59	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.1	0.51	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.1	0.54	ug/l	
123-91-1	1,4-Dioxane	ND	1.1	0.70	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.35	ug/l	
132-64-9	Dibenzofuran	ND	5.3	0.23	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.1	0.53	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.1	0.25	ug/l	
84-66-2	Diethyl phthalate	ND	2.1	0.28	ug/l	
131-11-3	Dimethyl phthalate	ND	2.1	0.23	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	1.8	ug/l	
206-44-0	Fluoranthene	1.1	1.1	0.18	ug/l	
86-73-7	Fluorene	ND	1.1	0.18	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.35	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.52	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	3.0	ug/l	
67-72-1	Hexachloroethane	ND	2.1	0.41	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.93	1.1	0.35	ug/l	J
78-59-1	Isophorone	ND	2.1	0.29	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	5.3	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	5.3	0.41	ug/l	
100-01-6	4-Nitroaniline	ND	5.3	0.47	ug/l	
91-20-3	Naphthalene	ND	1.1	0.25	ug/l	
98-95-3	Nitrobenzene	ND	2.1	0.68	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.1	0.51	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.24	ug/l	
85-01-8	Phenanthrene	0.50	1.1	0.19	ug/l	J
129-00-0	Pyrene	1.5	1.1	0.23	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.1	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	43%		10-110%

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-7		Date Sampled: 03/21/17
Lab Sample ID: JC39408-17		Date Received: 03/22/17
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270D SW846 3510C		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	29%		10-110%
118-79-6	2,4,6-Tribromophenol	111%		36-151%
4165-60-0	Nitrobenzene-d5	96%		34-128%
321-60-8	2-Fluorobiphenyl	82%		38-119%
1718-51-0	Terphenyl-d14	60%		26-129%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-7	Date Sampled: 03/21/17
Lab Sample ID: JC39408-17F	Date Received: 03/22/17
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ⁴
Arsenic	< 3.0	3.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ⁴
Beryllium	< 1.0	1.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ⁴
Cadmium	< 3.0	3.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ⁴
Chromium	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ⁴
Copper	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ⁴
Lead	< 3.0	3.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ⁴
Mercury	< 0.20	0.20	ug/l	1	03/27/17	03/27/17 MS	SW846 7470A ¹	SW846 7470A ⁵
Nickel	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ⁴
Selenium	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ⁴
Silver	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ⁴
Thallium	< 2.0	2.0	ug/l	1	03/25/17	03/29/17 ND	SW846 6010C ³	SW846 3010A ⁴
Zinc	< 20	20	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ⁴

- (1) Instrument QC Batch: MA41647
- (2) Instrument QC Batch: MA41657
- (3) Instrument QC Batch: MA41667
- (4) Prep QC Batch: MP99464
- (5) Prep QC Batch: MP99499

RL = Reporting Limit

Report of Analysis

Client Sample ID: SB-8		Date Sampled: 03/21/17
Lab Sample ID: JC39408-18		Date Received: 03/22/17
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260C		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2A177307.D	1	03/24/17	JC	n/a	n/a	V2A7505
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.33	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.73	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	5.0	1.2	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.5	ug/l	

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-8		Date Sampled: 03/21/17
Lab Sample ID: JC39408-18		Date Received: 03/22/17
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260C		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.78	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		76-120%
17060-07-0	1,2-Dichloroethane-D4	101%		73-122%
2037-26-5	Toluene-D8	98%		84-119%
460-00-4	4-Bromofluorobenzene	99%		78-117%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-8		Date Sampled: 03/21/17
Lab Sample ID: JC39408-18		Date Received: 03/22/17
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270D SW846 3510C		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z119971.D	1	03/27/17	AC	03/24/17	OP1380	EZ5958
Run #2							

Run #	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.3	0.86	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.3	0.94	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.1	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.3	2.6	ug/l	
51-28-5	2,4-Dinitrophenol	ND	11	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.3	1.4	ug/l	
95-48-7	2-Methylphenol	ND	2.1	0.93	ug/l	
	3&4-Methylphenol	ND	2.1	0.93	ug/l	
88-75-5	2-Nitrophenol	ND	5.3	1.0	ug/l	
100-02-7	4-Nitrophenol	ND	11	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	4.2	1.5	ug/l	
108-95-2	Phenol	ND	2.1	0.41	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.3	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.3	1.4	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.3	0.97	ug/l	
83-32-9	Acenaphthene	ND	1.1	0.20	ug/l	
208-96-8	Acenaphthylene	ND	1.1	0.14	ug/l	
98-86-2	Acetophenone	ND	2.1	0.22	ug/l	
120-12-7	Anthracene	ND	1.1	0.22	ug/l	
1912-24-9	Atrazine	ND	2.1	0.47	ug/l	
100-52-7	Benzaldehyde	ND	5.3	0.30	ug/l	
56-55-3	Benzo(a)anthracene	0.70	1.1	0.21	ug/l	J
50-32-8	Benzo(a)pyrene	0.83	1.1	0.22	ug/l	J
205-99-2	Benzo(b)fluoranthene	0.84	1.1	0.22	ug/l	J
191-24-2	Benzo(g,h,i)perylene	1.7	1.1	0.36	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.1	0.22	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.1	0.43	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.1	0.48	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.22	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.1	0.25	ug/l	
106-47-8	4-Chloroaniline	ND	5.3	0.36	ug/l	
86-74-8	Carbazole	ND	1.1	0.24	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-8		Date Sampled: 03/21/17
Lab Sample ID: JC39408-18		Date Received: 03/22/17
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270D SW846 3510C		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	2.1	0.68	ug/l	
218-01-9	Chrysene	0.76	1.1	0.19	ug/l	J
111-91-1	bis(2-Chloroethoxy)methane	ND	2.1	0.29	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.1	0.26	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.1	0.42	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.1	0.39	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.1	0.58	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.1	0.50	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.1	0.53	ug/l	
123-91-1	1,4-Dioxane	ND	1.1	0.69	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.1	0.35	ug/l	
132-64-9	Dibenzofuran	ND	5.3	0.23	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.1	0.52	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.1	0.25	ug/l	
84-66-2	Diethyl phthalate	ND	2.1	0.28	ug/l	
131-11-3	Dimethyl phthalate	ND	2.1	0.23	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	1.7	ug/l	
206-44-0	Fluoranthene	1.2	1.1	0.18	ug/l	
86-73-7	Fluorene	ND	1.1	0.18	ug/l	
118-74-1	Hexachlorobenzene	ND	1.1	0.34	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.52	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	2.9	ug/l	
67-72-1	Hexachloroethane	ND	2.1	0.41	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.78	1.1	0.35	ug/l	J
78-59-1	Isophorone	ND	2.1	0.29	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.22	ug/l	
88-74-4	2-Nitroaniline	ND	5.3	0.29	ug/l	
99-09-2	3-Nitroaniline	ND	5.3	0.41	ug/l	
100-01-6	4-Nitroaniline	ND	5.3	0.46	ug/l	
91-20-3	Naphthalene	ND	1.1	0.24	ug/l	
98-95-3	Nitrobenzene	ND	2.1	0.68	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.1	0.51	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.23	ug/l	
85-01-8	Phenanthrene	0.86	1.1	0.18	ug/l	J
129-00-0	Pyrene	1.3	1.1	0.23	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.1	0.39	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	39%		10-110%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-8		Date Sampled: 03/21/17
Lab Sample ID: JC39408-18		Date Received: 03/22/17
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8270D SW846 3510C		
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY		

ABN TCL List (SOM0 2.0)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-62-2	Phenol-d5	30%		10-110%
118-79-6	2,4,6-Tribromophenol	106%		36-151%
4165-60-0	Nitrobenzene-d5	88%		34-128%
321-60-8	2-Fluorobiphenyl	74%		38-119%
1718-51-0	Terphenyl-d14	60%		26-129%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-8	Date Sampled: 03/21/17
Lab Sample ID: JC39408-18F	Date Received: 03/22/17
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY	

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Arsenic	< 3.0	3.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Beryllium	< 1.0	1.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Chromium	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Copper	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Lead	< 3.0	3.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	03/27/17	03/27/17 MS	SW846 7470A ¹	SW846 7470A ⁴
Nickel	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Selenium	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Silver	< 10	10	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Thallium	< 2.0	2.0	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³
Zinc	< 20	20	ug/l	1	03/25/17	03/28/17 DE	SW846 6010C ²	SW846 3010A ³

(1) Instrument QC Batch: MA41647

(2) Instrument QC Batch: MA41657

(3) Prep QC Batch: MP99464

(4) Prep QC Batch: MP99499

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



ACCUTEST

SLC
SO
GW

CHAIN OF CUSTODY

SGS Accutest - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #
Bottle Order Control #
SGS Accutest Quote # **JC39408**
SGS Accutest Job #

Client / Reporting Information Project Information Requested Analysis (see TEST CODE sheet) Matrix Codes

Company Name EBI consulting		Project Name: 159-161 Alexander St	
Street Address 21 B street		Street 159-161 Alexander St	
City Burlington MA 01803		City Yonkers NY	
Project Contact Bryan Shaw		Project # W17000088	
Phone # 845-893 1245		Client Purchase Order # 1217000088	
Sampler(s) Name(s) Bryan Shaw		Project Manager Bryan Shaw	

- DW - Drinking Water
- GW - Ground Water
- WW - Water
- SW - Surface Water
- SO - Soil
- SL - Sludge
- SED - Sediment
- OI - Oil
- LIO - Other Liquid
- AIR - Air
- SOL - Other Solid
- WP - Wipe
- FB-Field Blank
- EB-Equipment Blank
- FB- Rinse Blank
- TB-Trip Blank

SGS Accutest Sample #	Field ID / Point of Collection	MECH/ID Val #	Collection		Sampled by	Matrix	# of bottles	Number of preserved Bottles										LAB USE ONLY					
			Date	Time				ICI	INCH	INOC3	INOC4	INOC6	N Water	MECH	ENCORE								
1	SB-1 (0-2)		3/21/17	1100	BS	SO	2																E25
2	SB-1 (4.5-6.5)		3/21/17	1115	BS	SO	2																C7
3	SB-1 (6.5-7)			1125	BS	SO	2																V372
4	SB-2 (2-4)			1230	BS	SO	3																D3
5	SB-3 (4-6)			1245	BS	SO	3																H571
6	SB-4 (2-4)			1300	BS	SO	3																1466
7	SB-5 (2.5-4.5)			1430	BS	SO	3																40104
8	SB-6 (5-7)			1345	BS	SO	3																
9	SB-7 (6-8)			1300	BS	SO	3																
10	SB-8 (4-4.5)			1400	BS	SO	1																
11	SB-8 (5-7)			1410	BS	SO	2																
12	SB-4 (2-4)			1415	BS	SO	3																

Approved by (SGS Accutest PM): / Date: _____

Emergency & Rush TIA data available VIA Lablink

Commercial "a" (Level 1) Commercial "b" (Level 2) FULLT1 (Level 3-4) NJ Reduced Commercial "C" NJ Data of Known Quality Protocol Reporting

NYASP Category A NYASP Category B State Forms EDD Format Other

Commercial "A" = Results Only, Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished By: 1 Date Time: 3/21/17 11:25	Received By: 1 Date Time: 3/21/17 11:25	Relinquished By: 2 Date Time: 3/21/17 13:00	Received By: 2 Date Time: 3/21/17 13:00
Relinquished By: 3 Date Time: _____	Received By: 3 Date Time: _____	Relinquished By: 4 Date Time: _____	Received By: 4 Date Time: _____

Custody Seal # _____
 Intact Preserved where applicable
 Not intact

On ice Cooler Temp **2.500, 3.300, 3.700, 2.700**

SM088-01C Rev. Date: 9/13/16





ACCUTEST

CHAIN OF CUSTODY

SGS Accutest - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #
Bottle Order Control #
SGS Accutest Quote #
SGS Accutest Job # JC39408

Client / Reporting Information, Project Information, Requested Analysis (see TEST CODE sheet), Matrix Codes, Collection table with columns for Field ID, Date, Time, Matrix, # of bottles, and various chemical analysis parameters.

Turnaround Time (Business days), Approved by (SGS Accutest PM) / Date, Data Deliverable Information, Comments / Special Instructions (4 coolers, 0 WA Be Vial 7/22/17)

Sample Custody must be documented below each time samples change possession, including courier delivery. Includes fields for Relinquished by, Received By, Date Time, and Custody Seal #.

SMNRR-01C Rev. Date: 9/13/16

JC39408: Chain of Custody

Page 2 of 4



SGS Accutest Sample Receipt Summary

Job Number: JC39408

Client: EBI CONSULTING

Project: 159 - 161 Alexander St.

Date / Time Received: 3/22/2017 6:04:00 PM

Delivery Method: Accutest Courier

Airbill #s:

Cooler Temps (Raw Measured) °C: Cooler 1: (2.3); Cooler 2: (3.3); Cooler 3: (3.7); Cooler 4: (2.7);

Cooler Temps (Corrected) °C: Cooler 1: (3.7); Cooler 2: (4.7); Cooler 3: (5.1); Cooler 4: (4.1);

<u>Cooler Security</u>	<u>Y or N</u>			<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>	<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>	
1. Temp criteria achieved:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	4	

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	Intact		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments 1) Soil volatiles was not collected according to 5035 specifications. VOA lab to prep from intact volume.
 2) -5 ID on label is "SB-3 (6-8)" not "SB-3 (4-6)". Date and time is ok.
 3) -6 ID on label is "SB-4 (4-6)" not "SB-4 (2-4)". Date and time is ok.
 4) -9 ID on label is "SB-7 (5-9)" not "SB-7 (6-8)". Date and time is ok.
 5) -13 through -18 The metals volume rec'd is unpreserved and bottles are labeled as Diss LF Metals, Diss LF metals is not noted on COC. We will send filtration request. If total is needed, we will aliquot and preserve. Please verify.

SM089-02
Rev. Date 12/1/16

JC39408: Chain of Custody

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4.1
4

Response:

- 1) Proceed as noted
- 2),3),4)-The correct samples IDs are on the COC
- 5) Only Diss LF metals needed.

GC/MS Volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC39408**Account:** EBIMAB EBI Consulting**Project:** 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7505-MB	2A177288.D	1	03/24/17	JC	n/a	n/a	V2A7505

The QC reported here applies to the following samples:**Method:** SW846 8260C

JC39408-13, JC39408-14, JC39408-15, JC39408-17, JC39408-18

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.33	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.73	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	5.0	1.2	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.5	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.78	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	

Method Blank Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7505-MB	2A177288.D	1	03/24/17	JC	n/a	n/a	V2A7505

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-13, JC39408-14, JC39408-15, JC39408-17, JC39408-18

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	95%	76-120%
17060-07-0	1,2-Dichloroethane-D4	99%	73-122%
2037-26-5	Toluene-D8	99%	84-119%
460-00-4	4-Bromofluorobenzene	99%	78-117%

Method Blank Summary

Job Number: JC39408

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7265-MB	X170971.D	1	03/24/17	TP	n/a	n/a	VX7265

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-1, JC39408-2, JC39408-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/kg	
71-43-2	Benzene	ND	0.50	0.12	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.32	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.15	ug/kg	
75-25-2	Bromoform	ND	5.0	0.27	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.49	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	1.8	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	0.17	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.16	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.43	ug/kg	
67-66-3	Chloroform	ND	2.0	0.24	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.21	ug/kg	
110-82-7	Cyclohexane	ND	2.0	0.55	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.48	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.15	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.15	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.55	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.15	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.31	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.20	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.22	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.15	ug/kg	
76-13-1	Freon 113	ND	5.0	0.48	ug/kg	
591-78-6	2-Hexanone	ND	5.0	1.4	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	0.15	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	2.0	ug/kg	
108-87-2	Methylcyclohexane	ND	2.0	0.51	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.27	ug/kg	

Method Blank Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7265-MB	X170971.D	1	03/24/17	TP	n/a	n/a	VX7265

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-1, JC39408-2, JC39408-4

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.85	ug/kg	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/kg	
100-42-5	Styrene	ND	2.0	0.15	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.24	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.28	ug/kg	
108-88-3	Toluene	ND	1.0	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.50	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.32	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.19	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.63	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.20	ug/kg	
	m,p-Xylene	ND	1.0	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.20	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	99% 70-122%
17060-07-0	1,2-Dichloroethane-D4	101% 68-124%
2037-26-5	Toluene-D8	102% 77-125%
460-00-4	4-Bromofluorobenzene	99% 72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

5.1.2
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Method Blank Summary

Job Number: JC39408**Account:** EBIMAB EBI Consulting**Project:** 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7266-MB	X171009.D	1	03/25/17	TP	n/a	n/a	VX7266

The QC reported here applies to the following samples:**Method:** SW846 8260C

JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/kg	
71-43-2	Benzene	ND	0.50	0.12	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.32	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.15	ug/kg	
75-25-2	Bromoform	ND	5.0	0.27	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.49	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	1.8	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	0.17	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.16	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.43	ug/kg	
67-66-3	Chloroform	ND	2.0	0.24	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.21	ug/kg	
110-82-7	Cyclohexane	ND	2.0	0.55	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.48	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.15	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.15	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.55	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.15	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.31	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.20	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.22	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.15	ug/kg	
76-13-1	Freon 113	ND	5.0	0.48	ug/kg	
591-78-6	2-Hexanone	ND	5.0	1.4	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	0.15	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	2.0	ug/kg	
108-87-2	Methylcyclohexane	ND	2.0	0.51	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.27	ug/kg	

Method Blank Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7266-MB	X171009.D	1	03/25/17	TP	n/a	n/a	VX7266

The QC reported here applies to the following samples: **Method:** SW846 8260C

JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.85	ug/kg	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/kg	
100-42-5	Styrene	ND	2.0	0.15	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.24	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.28	ug/kg	
108-88-3	Toluene	ND	1.0	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.50	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.32	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.19	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.63	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.20	ug/kg	
	m,p-Xylene	ND	1.0	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.20	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	102%	70-122%
17060-07-0	1,2-Dichloroethane-D4	103%	68-124%
2037-26-5	Toluene-D8	98%	77-125%
460-00-4	4-Bromofluorobenzene	101%	72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

5.1.3
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Method Blank Summary

Job Number: JC39408**Account:** EBIMAB EBI Consulting**Project:** 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7267-MB	X171046.D	1	03/27/17	TP	n/a	n/a	VX7267

The QC reported here applies to the following samples:**Method:** SW846 8260C

JC39408-5

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/kg	
71-43-2	Benzene	ND	0.50	0.12	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.32	ug/kg	
75-27-4	Bromodichloromethane	ND	2.0	0.15	ug/kg	
75-25-2	Bromoform	ND	5.0	0.27	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.49	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	1.8	ug/kg	
75-15-0	Carbon disulfide	ND	2.0	0.17	ug/kg	
56-23-5	Carbon tetrachloride	ND	2.0	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	2.0	0.16	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.43	ug/kg	
67-66-3	Chloroform	ND	2.0	0.24	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.21	ug/kg	
110-82-7	Cyclohexane	ND	2.0	0.55	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.48	ug/kg	
124-48-1	Dibromochloromethane	ND	2.0	0.15	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.24	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.14	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.15	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.55	ug/kg	
75-34-3	1,1-Dichloroethane	ND	1.0	0.19	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	1.0	0.15	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.44	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.16	ug/kg	
78-87-5	1,2-Dichloropropane	ND	2.0	0.31	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.20	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.22	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.15	ug/kg	
76-13-1	Freon 113	ND	5.0	0.48	ug/kg	
591-78-6	2-Hexanone	ND	5.0	1.4	ug/kg	
98-82-8	Isopropylbenzene	ND	2.0	0.15	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	2.0	ug/kg	
108-87-2	Methylcyclohexane	ND	2.0	0.51	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.27	ug/kg	

Method Blank Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7267-MB	X171046.D	1	03/27/17	TP	n/a	n/a	VX7267

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-5

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.85	ug/kg	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/kg	
100-42-5	Styrene	ND	2.0	0.15	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.24	ug/kg	
127-18-4	Tetrachloroethene	ND	2.0	0.28	ug/kg	
108-88-3	Toluene	ND	1.0	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.50	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.50	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	2.0	0.17	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	2.0	0.32	ug/kg	
79-01-6	Trichloroethene	ND	1.0	0.19	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.63	ug/kg	
75-01-4	Vinyl chloride	ND	2.0	0.20	ug/kg	
	m,p-Xylene	ND	1.0	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.20	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.20	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	99% 70-122%
17060-07-0	1,2-Dichloroethane-D4	98% 68-124%
2037-26-5	Toluene-D8	101% 77-125%
460-00-4	4-Bromofluorobenzene	102% 72-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

5.1.4
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Method Blank Summary

Job Number: JC39408

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7509-MB	2A177372.D	1	03/28/17	JC	n/a	n/a	V2A7509

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-16

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.33	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.73	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	5.0	1.2	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.5	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.78	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	

Method Blank Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7509-MB	2A177372.D	1	03/28/17	JC	n/a	n/a	V2A7509

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-16

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	99% 76-120%
17060-07-0	1,2-Dichloroethane-D4	106% 73-122%
2037-26-5	Toluene-D8	99% 84-119%
460-00-4	4-Bromofluorobenzene	100% 78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.74	59	ug/l	J
	Total TIC, Volatile		0	ug/l	

Method Blank Summary

Job Number: JC39408

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7509-MB2	2A177393.D	1	03/29/17	JC	n/a	n/a	V2A7509

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39751-2DUP, JC39595-1MS

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	5.0	ug/l	
71-43-2	Benzene	ND	0.50	0.14	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.46	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.55	ug/l	
75-25-2	Bromoform	ND	1.0	0.34	ug/l	
74-83-9	Bromomethane	ND	2.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	1.9	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.33	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.54	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.17	ug/l	
75-00-3	Chloroethane	ND	1.0	0.44	ug/l	
67-66-3	Chloroform	ND	1.0	0.23	ug/l	
74-87-3	Chloromethane	ND	1.0	0.96	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.73	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.0	0.69	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.22	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.23	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.19	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.21	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.70	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.21	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.39	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.36	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	5.0	1.2	ug/l	
591-78-6	2-Hexanone	ND	5.0	1.5	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.16	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.78	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.34	ug/l	

Method Blank Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7509-MB2	2A177393.D	1	03/29/17	JC	n/a	n/a	V2A7509

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39751-2DUP, JC39595-1MS

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	1.2	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	0.27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.39	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.23	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	0.50	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.28	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.26	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.58	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.33	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.21	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Limits	
1868-53-7	Dibromofluoromethane	100%	76-120%
17060-07-0	1,2-Dichloroethane-D4	105%	73-122%
2037-26-5	Toluene-D8	99%	84-119%
460-00-4	4-Bromofluorobenzene	99%	78-117%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.74	62	ug/l	J
	Total TIC, Volatile		0	ug/l	

5.1.6
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Blank Spike Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7505-BS	2A177289.D	1	03/24/17	JC	n/a	n/a	V2A7505

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-13, JC39408-14, JC39408-15, JC39408-17, JC39408-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	250	215	86	49-137
71-43-2	Benzene	50	49.7	99	80-118
74-97-5	Bromochloromethane	50	49.0	98	84-120
75-27-4	Bromodichloromethane	50	53.4	107	83-119
75-25-2	Bromoform	50	57.3	115	77-126
74-83-9	Bromomethane	50	42.9	86	57-133
78-93-3	2-Butanone (MEK)	250	241	96	71-127
75-15-0	Carbon disulfide	50	50.9	102	61-144
56-23-5	Carbon tetrachloride	50	56.3	113	77-134
108-90-7	Chlorobenzene	50	51.9	104	85-116
75-00-3	Chloroethane	50	44.3	89	62-133
67-66-3	Chloroform	50	50.0	100	84-125
74-87-3	Chloromethane	50	38.1	76	51-134
110-82-7	Cyclohexane	50	48.5	97	60-134
96-12-8	1,2-Dibromo-3-chloropropane	50	47.7	95	71-124
124-48-1	Dibromochloromethane	50	53.7	107	82-121
106-93-4	1,2-Dibromoethane	50	50.0	100	79-120
95-50-1	1,2-Dichlorobenzene	50	53.0	106	84-117
541-73-1	1,3-Dichlorobenzene	50	52.1	104	83-114
106-46-7	1,4-Dichlorobenzene	50	51.3	103	83-115
75-71-8	Dichlorodifluoromethane	50	39.1	78	43-135
75-34-3	1,1-Dichloroethane	50	49.4	99	79-124
107-06-2	1,2-Dichloroethane	50	54.5	109	81-127
75-35-4	1,1-Dichloroethene	50	50.4	101	69-136
156-59-2	cis-1,2-Dichloroethene	50	44.2	88	79-118
156-60-5	trans-1,2-Dichloroethene	50	48.7	97	73-125
78-87-5	1,2-Dichloropropane	50	50.2	100	81-118
10061-01-5	cis-1,3-Dichloropropene	50	50.3	101	86-119
10061-02-6	trans-1,3-Dichloropropene	50	52.1	104	84-121
100-41-4	Ethylbenzene	50	51.7	103	84-115
76-13-1	Freon 113	50	79.6	159	67-159
591-78-6	2-Hexanone	250	250	100	71-125
98-82-8	Isopropylbenzene	50	51.1	102	80-121
79-20-9	Methyl Acetate	50	47.3	95	69-126
108-87-2	Methylcyclohexane	50	52.6	105	61-138
1634-04-4	Methyl Tert Butyl Ether	100	98.9	99	80-121

* = Outside of Control Limits.

5.2.1
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Blank Spike Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7505-BS	2A177289.D	1	03/24/17	JC	n/a	n/a	V2A7505

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-13, JC39408-14, JC39408-15, JC39408-17, JC39408-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	250	250	100	77-123
75-09-2	Methylene chloride	50	49.7	99	75-122
100-42-5	Styrene	50	52.6	105	86-118
79-34-5	1,1,2,2-Tetrachloroethane	50	45.5	91	74-119
127-18-4	Tetrachloroethene	50	53.6	107	70-134
108-88-3	Toluene	50	51.6	103	84-117
87-61-6	1,2,3-Trichlorobenzene	50	50.4	101	73-130
120-82-1	1,2,4-Trichlorobenzene	50	51.5	103	79-129
71-55-6	1,1,1-Trichloroethane	50	53.5	107	83-134
79-00-5	1,1,2-Trichloroethane	50	48.8	98	84-119
79-01-6	Trichloroethene	50	51.2	102	84-120
75-69-4	Trichlorofluoromethane	50	52.2	104	63-133
75-01-4	Vinyl chloride	50	40.5	81	55-121
	m,p-Xylene	100	104	104	85-117
95-47-6	o-Xylene	50	51.9	104	85-119
1330-20-7	Xylene (total)	150	156	104	85-117

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	76-120%
17060-07-0	1,2-Dichloroethane-D4	102%	73-122%
2037-26-5	Toluene-D8	99%	84-119%
460-00-4	4-Bromofluorobenzene	97%	78-117%

* = Outside of Control Limits.

5.2.1
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Blank Spike Summary

Job Number: JC39408

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7265-BS	X170973.D	1	03/24/17	TP	n/a	n/a	VX7265

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-1, JC39408-2, JC39408-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
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CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	70-122%
17060-07-0	1,2-Dichloroethane-D4	100%	68-124%
2037-26-5	Toluene-D8	107%	77-125%
460-00-4	4-Bromofluorobenzene	100%	72-130%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC39408

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7265-BS	X170974.D	1	03/24/17	TP	n/a	n/a	VX7265

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-1, JC39408-2, JC39408-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	200	236	118	30-150
71-43-2	Benzene	50	45.4	91	77-122
74-97-5	Bromochloromethane	50	47.9	96	81-126
75-27-4	Bromodichloromethane	50	46.5	93	82-130
75-25-2	Bromoform	50	47.0	94	78-134
74-83-9	Bromomethane	50	44.7	89	56-141
78-93-3	2-Butanone (MEK)	200	224	112	61-139
75-15-0	Carbon disulfide	50	47.8	96	68-131
56-23-5	Carbon tetrachloride	50	46.3	93	73-139
108-90-7	Chlorobenzene	50	47.5	95	79-120
75-00-3	Chloroethane	50	49.7	99	64-150
67-66-3	Chloroform	50	46.1	92	77-123
74-87-3	Chloromethane	50	45.4	91	50-140
110-82-7	Cyclohexane	50	46.3	93	66-131
96-12-8	1,2-Dibromo-3-chloropropane	50	49.7	99	70-128
124-48-1	Dibromochloromethane	50	47.5	95	82-129
106-93-4	1,2-Dibromoethane	50	47.7	95	83-125
95-50-1	1,2-Dichlorobenzene	50	48.5	97	79-118
541-73-1	1,3-Dichlorobenzene	50	48.5	97	76-119
106-46-7	1,4-Dichlorobenzene	50	48.6	97	75-118
75-71-8	Dichlorodifluoromethane	50	36.9	74	31-170
75-34-3	1,1-Dichloroethane	50	47.9	96	78-129
107-06-2	1,2-Dichloroethane	50	48.6	97	77-140
75-35-4	1,1-Dichloroethene	50	45.1	90	71-128
156-59-2	cis-1,2-Dichloroethene	50	46.8	94	73-123
156-60-5	trans-1,2-Dichloroethene	50	47.3	95	72-122
78-87-5	1,2-Dichloropropane	50	49.3	99	80-129
10061-01-5	cis-1,3-Dichloropropene	50	48.5	97	75-124
10061-02-6	trans-1,3-Dichloropropene	50	48.7	97	75-129
100-41-4	Ethylbenzene	50	46.9	94	75-121
76-13-1	Freon 113	50	64.9	130	67-136
591-78-6	2-Hexanone	200	219	110	63-140
98-82-8	Isopropylbenzene	50	45.6	91	70-126
79-20-9	Methyl Acetate	50	56.7	113	59-131
108-87-2	Methylcyclohexane	50	43.6	87	62-131
1634-04-4	Methyl Tert Butyl Ether	100	98.7	99	77-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7265-BS	X170974.D	1	03/24/17	TP	n/a	n/a	VX7265

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-1, JC39408-2, JC39408-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	200	222	111	73-141
75-09-2	Methylene chloride	50	43.2	86	71-124
100-42-5	Styrene	50	46.0	92	79-125
79-34-5	1,1,2,2-Tetrachloroethane	50	49.7	99	72-121
127-18-4	Tetrachloroethene	50	49.7	99	70-135
108-88-3	Toluene	50	45.6	91	75-123
87-61-6	1,2,3-Trichlorobenzene	50	55.7	111	76-128
120-82-1	1,2,4-Trichlorobenzene	50	54.3	109	74-129
71-55-6	1,1,1-Trichloroethane	50	48.9	98	75-134
79-00-5	1,1,2-Trichloroethane	50	50.7	101	78-130
79-01-6	Trichloroethene	50	50.7	101	79-127
75-69-4	Trichlorofluoromethane	50	43.2	86	64-141
75-01-4	Vinyl chloride	50	46.9	94	57-136
	m,p-Xylene	100	95.5	96	75-122
95-47-6	o-Xylene	50	45.2	90	76-121
1330-20-7	Xylene (total)	150	141	94	76-121

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	70-122%
17060-07-0	1,2-Dichloroethane-D4	98%	68-124%
2037-26-5	Toluene-D8	101%	77-125%
460-00-4	4-Bromofluorobenzene	104%	72-130%

* = Outside of Control Limits.

5.2.3
5

Blank Spike Summary

Job Number: JC39408

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7266-BS	X171010.D	1	03/25/17	TP	n/a	n/a	VX7266

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	200	186	93	30-150
71-43-2	Benzene	50	47.6	95	77-122
74-97-5	Bromochloromethane	50	48.8	98	81-126
75-27-4	Bromodichloromethane	50	49.3	99	82-130
75-25-2	Bromoform	50	48.3	97	78-134
74-83-9	Bromomethane	50	39.6	79	56-141
78-93-3	2-Butanone (MEK)	200	184	92	61-139
75-15-0	Carbon disulfide	50	51.1	102	68-131
56-23-5	Carbon tetrachloride	50	49.0	98	73-139
108-90-7	Chlorobenzene	50	49.6	99	79-120
75-00-3	Chloroethane	50	46.7	93	64-150
67-66-3	Chloroform	50	48.7	97	77-123
74-87-3	Chloromethane	50	40.4	81	50-140
110-82-7	Cyclohexane	50	48.6	97	66-131
96-12-8	1,2-Dibromo-3-chloropropane	50	50.1	100	70-128
124-48-1	Dibromochloromethane	50	48.7	97	82-129
106-93-4	1,2-Dibromoethane	50	47.8	96	83-125
95-50-1	1,2-Dichlorobenzene	50	50.9	102	79-118
541-73-1	1,3-Dichlorobenzene	50	51.0	102	76-119
106-46-7	1,4-Dichlorobenzene	50	50.5	101	75-118
75-71-8	Dichlorodifluoromethane	50	36.3	73	31-170
75-34-3	1,1-Dichloroethane	50	49.7	99	78-129
107-06-2	1,2-Dichloroethane	50	48.4	97	77-140
75-35-4	1,1-Dichloroethene	50	49.6	99	71-128
156-59-2	cis-1,2-Dichloroethene	50	49.4	99	73-123
156-60-5	trans-1,2-Dichloroethene	50	50.0	100	72-122
78-87-5	1,2-Dichloropropane	50	52.0	104	80-129
10061-01-5	cis-1,3-Dichloropropene	50	51.1	102	75-124
10061-02-6	trans-1,3-Dichloropropene	50	49.8	100	75-129
100-41-4	Ethylbenzene	50	50.9	102	75-121
76-13-1	Freon 113	50	55.7	111	67-136
591-78-6	2-Hexanone	200	188	94	63-140
98-82-8	Isopropylbenzene	50	68.4	137* a	70-126
79-20-9	Methyl Acetate	50	48.9	98	59-131
108-87-2	Methylcyclohexane	50	46.2	92	62-131
1634-04-4	Methyl Tert Butyl Ether	100	93.7	94	77-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7266-BS	X171010.D	1	03/25/17	TP	n/a	n/a	VX7266

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	200	191	96	73-141
75-09-2	Methylene chloride	50	44.6	89	71-124
100-42-5	Styrene	50	49.2	98	79-125
79-34-5	1,1,2,2-Tetrachloroethane	50	49.4	99	72-121
127-18-4	Tetrachloroethene	50	53.6	107	70-135
108-88-3	Toluene	50	48.7	97	75-123
87-61-6	1,2,3-Trichlorobenzene	50	54.9	110	76-128
120-82-1	1,2,4-Trichlorobenzene	50	54.0	108	74-129
71-55-6	1,1,1-Trichloroethane	50	51.5	103	75-134
79-00-5	1,1,2-Trichloroethane	50	49.3	99	78-130
79-01-6	Trichloroethene	50	54.4	109	79-127
75-69-4	Trichlorofluoromethane	50	42.0	84	64-141
75-01-4	Vinyl chloride	50	40.0	80	57-136
	m,p-Xylene	100	103	103	75-122
95-47-6	o-Xylene	50	48.2	96	76-121
1330-20-7	Xylene (total)	150	151	101	76-121

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	70-122%
17060-07-0	1,2-Dichloroethane-D4	96%	68-124%
2037-26-5	Toluene-D8	99%	77-125%
460-00-4	4-Bromofluorobenzene	104%	72-130%

(a) High percent recoveries and no associated positive found in the QC batch.

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7267-BS	X171047.D	1	03/27/17	TP	n/a	n/a	VX7267

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	200	199	100	30-150
71-43-2	Benzene	50	46.2	92	77-122
74-97-5	Bromochloromethane	50	49.1	98	81-126
75-27-4	Bromodichloromethane	50	48.7	97	82-130
75-25-2	Bromoform	50	48.3	97	78-134
74-83-9	Bromomethane	50	42.8	86	56-141
78-93-3	2-Butanone (MEK)	200	199	100	61-139
75-15-0	Carbon disulfide	50	49.2	98	68-131
56-23-5	Carbon tetrachloride	50	50.9	102	73-139
108-90-7	Chlorobenzene	50	47.0	94	79-120
75-00-3	Chloroethane	50	48.2	96	64-150
67-66-3	Chloroform	50	49.3	99	77-123
74-87-3	Chloromethane	50	44.0	88	50-140
110-82-7	Cyclohexane	50	49.8	100	66-131
96-12-8	1,2-Dibromo-3-chloropropane	50	48.1	96	70-128
124-48-1	Dibromochloromethane	50	47.0	94	82-129
106-93-4	1,2-Dibromoethane	50	47.0	94	83-125
95-50-1	1,2-Dichlorobenzene	50	47.9	96	79-118
541-73-1	1,3-Dichlorobenzene	50	47.8	96	76-119
106-46-7	1,4-Dichlorobenzene	50	48.0	96	75-118
75-71-8	Dichlorodifluoromethane	50	43.4	87	31-170
75-34-3	1,1-Dichloroethane	50	49.3	99	78-129
107-06-2	1,2-Dichloroethane	50	49.4	99	77-140
75-35-4	1,1-Dichloroethene	50	46.5	93	71-128
156-59-2	cis-1,2-Dichloroethene	50	49.5	99	73-123
156-60-5	trans-1,2-Dichloroethene	50	50.6	101	72-122
78-87-5	1,2-Dichloropropane	50	51.8	104	80-129
10061-01-5	cis-1,3-Dichloropropene	50	50.7	101	75-124
10061-02-6	trans-1,3-Dichloropropene	50	47.7	95	75-129
100-41-4	Ethylbenzene	50	47.8	96	75-121
76-13-1	Freon 113	50	69.1	138* a	67-136
591-78-6	2-Hexanone	200	188	94	63-140
98-82-8	Isopropylbenzene	50	46.6	93	70-126
79-20-9	Methyl Acetate	50	52.3	105	59-131
108-87-2	Methylcyclohexane	50	48.2	96	62-131
1634-04-4	Methyl Tert Butyl Ether	100	97.6	98	77-121

* = Outside of Control Limits.

5.2.5
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Blank Spike Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX7267-BS	X171047.D	1	03/27/17	TP	n/a	n/a	VX7267

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	200	201	101	73-141
75-09-2	Methylene chloride	50	42.8	86	71-124
100-42-5	Styrene	50	46.3	93	79-125
79-34-5	1,1,2,2-Tetrachloroethane	50	48.1	96	72-121
127-18-4	Tetrachloroethene	50	50.5	101	70-135
108-88-3	Toluene	50	44.4	89	75-123
87-61-6	1,2,3-Trichlorobenzene	50	51.3	103	76-128
120-82-1	1,2,4-Trichlorobenzene	50	50.6	101	74-129
71-55-6	1,1,1-Trichloroethane	50	52.5	105	75-134
79-00-5	1,1,2-Trichloroethane	50	47.4	95	78-130
79-01-6	Trichloroethene	50	53.6	107	79-127
75-69-4	Trichlorofluoromethane	50	45.6	91	64-141
75-01-4	Vinyl chloride	50	43.5	87	57-136
	m,p-Xylene	100	95.5	96	75-122
95-47-6	o-Xylene	50	46.0	92	76-121
1330-20-7	Xylene (total)	150	141	94	76-121

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	70-122%
17060-07-0	1,2-Dichloroethane-D4	103%	68-124%
2037-26-5	Toluene-D8	95%	77-125%
460-00-4	4-Bromofluorobenzene	102%	72-130%

(a) High percent recoveries and no associated positive reported in the QC batch.

* = Outside of Control Limits.

5.2.5
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Blank Spike Summary

Job Number: JC39408

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7509-BS	2A177373.D	1	03/28/17	JC	n/a	n/a	V2A7509

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	250	252	101	49-137
71-43-2	Benzene	50	54.3	109	80-118
74-97-5	Bromochloromethane	50	56.0	112	84-120
75-27-4	Bromodichloromethane	50	60.2	120* a	83-119
75-25-2	Bromoform	50	63.1	126	77-126
74-83-9	Bromomethane	50	46.0	92	57-133
78-93-3	2-Butanone (MEK)	250	279	112	71-127
75-15-0	Carbon disulfide	50	56.9	114	61-144
56-23-5	Carbon tetrachloride	50	59.9	120	77-134
108-90-7	Chlorobenzene	50	56.3	113	85-116
75-00-3	Chloroethane	50	47.7	95	62-133
67-66-3	Chloroform	50	57.8	116	84-125
74-87-3	Chloromethane	50	40.7	81	51-134
110-82-7	Cyclohexane	50	51.8	104	60-134
96-12-8	1,2-Dibromo-3-chloropropane	50	54.8	110	71-124
124-48-1	Dibromochloromethane	50	59.5	119	82-121
106-93-4	1,2-Dibromoethane	50	54.9	110	79-120
95-50-1	1,2-Dichlorobenzene	50	58.9	118* a	84-117
541-73-1	1,3-Dichlorobenzene	50	57.3	115* a	83-114
106-46-7	1,4-Dichlorobenzene	50	55.7	111	83-115
75-71-8	Dichlorodifluoromethane	50	40.7	81	43-135
75-34-3	1,1-Dichloroethane	50	55.2	110	79-124
107-06-2	1,2-Dichloroethane	50	61.0	122	81-127
75-35-4	1,1-Dichloroethene	50	55.9	112	69-136
156-59-2	cis-1,2-Dichloroethene	50	50.1	100	79-118
156-60-5	trans-1,2-Dichloroethene	50	54.9	110	73-125
78-87-5	1,2-Dichloropropane	50	55.1	110	81-118
10061-01-5	cis-1,3-Dichloropropene	50	55.6	111	86-119
10061-02-6	trans-1,3-Dichloropropene	50	58.3	117	84-121
100-41-4	Ethylbenzene	50	56.3	113	84-115
76-13-1	Freon 113	50	84.8	170* a	67-159
591-78-6	2-Hexanone	250	257	103	71-125
98-82-8	Isopropylbenzene	50	58.3	117	80-121
79-20-9	Methyl Acetate	50	56.2	112	69-126
108-87-2	Methylcyclohexane	50	56.6	113	61-138
1634-04-4	Methyl Tert Butyl Ether	100	113	113	80-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V2A7509-BS	2A177373.D	1	03/28/17	JC	n/a	n/a	V2A7509

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	250	267	107	77-123
75-09-2	Methylene chloride	50	58.0	116	75-122
100-42-5	Styrene	50	57.2	114	86-118
79-34-5	1,1,2,2-Tetrachloroethane	50	51.5	103	74-119
127-18-4	Tetrachloroethene	50	58.6	117	70-134
108-88-3	Toluene	50	55.3	111	84-117
87-61-6	1,2,3-Trichlorobenzene	50	58.7	117	73-130
120-82-1	1,2,4-Trichlorobenzene	50	59.4	119	79-129
71-55-6	1,1,1-Trichloroethane	50	60.0	120	83-134
79-00-5	1,1,2-Trichloroethane	50	54.0	108	84-119
79-01-6	Trichloroethene	50	56.7	113	84-120
75-69-4	Trichlorofluoromethane	50	56.2	112	63-133
75-01-4	Vinyl chloride	50	42.5	85	55-121
	m,p-Xylene	100	114	114	85-117
95-47-6	o-Xylene	50	56.7	113	85-119
1330-20-7	Xylene (total)	150	171	114	85-117

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	76-120%
17060-07-0	1,2-Dichloroethane-D4	104%	73-122%
2037-26-5	Toluene-D8	97%	84-119%
460-00-4	4-Bromofluorobenzene	100%	78-117%

(a) High percent recoveries and no associated positive reported in the QC batch.

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39408-13MS	2A177302.D	1	03/24/17	JC	n/a	n/a	V2A7505
JC39408-13	2A177290.D	1	03/24/17	JC	n/a	n/a	V2A7505

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-13, JC39408-14, JC39408-15, JC39408-17, JC39408-18

CAS No.	Compound	JC39408-13 ug/l	Spike Q	ug/l	MS ug/l	MS %	Limits
67-64-1	Acetone	ND	250	200	80	39-143	
71-43-2	Benzene	ND	50	45.7	91	54-138	
74-97-5	Bromochloromethane	ND	50	45.7	91	79-123	
75-27-4	Bromodichloromethane	ND	50	51.0	102	78-123	
75-25-2	Bromoform	ND	50	52.7	105	71-128	
74-83-9	Bromomethane	ND	50	42.1	84	52-140	
78-93-3	2-Butanone (MEK)	ND	250	220	88	57-141	
75-15-0	Carbon disulfide	ND	50	36.8	74	51-156	
56-23-5	Carbon tetrachloride	ND	50	50.3	101	65-148	
108-90-7	Chlorobenzene	ND	50	48.8	98	76-125	
75-00-3	Chloroethane	ND	50	44.4	89	55-142	
67-66-3	Chloroform	ND	50	47.5	95	77-131	
74-87-3	Chloromethane	ND	50	39.2	78	43-144	
110-82-7	Cyclohexane	ND	50	46.3	93	41-160	
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	43.2	86	66-128	
124-48-1	Dibromochloromethane	ND	50	52.3	105	77-124	
106-93-4	1,2-Dibromoethane	ND	50	46.2	92	77-119	
95-50-1	1,2-Dichlorobenzene	ND	50	48.9	98	78-122	
541-73-1	1,3-Dichlorobenzene	ND	50	48.1	96	77-120	
106-46-7	1,4-Dichlorobenzene	ND	50	46.9	94	75-122	
75-71-8	Dichlorodifluoromethane	ND	50	42.4	85	31-155	
75-34-3	1,1-Dichloroethane	ND	50	45.4	91	71-131	
107-06-2	1,2-Dichloroethane	ND	50	51.2	102	72-135	
75-35-4	1,1-Dichloroethene	ND	50	42.2	84	57-149	
156-59-2	cis-1,2-Dichloroethene	ND	50	41.5	83	59-134	
156-60-5	trans-1,2-Dichloroethene	ND	50	43.5	87	64-134	
78-87-5	1,2-Dichloropropane	ND	50	46.9	94	76-122	
10061-01-5	cis-1,3-Dichloropropene	ND	50	47.3	95	80-124	
10061-02-6	trans-1,3-Dichloropropene	ND	50	47.7	95	78-124	
100-41-4	Ethylbenzene	ND	50	48.7	97	48-143	
76-13-1	Freon 113	ND	50	66.2	132	56-179	
591-78-6	2-Hexanone	ND	250	214	86	63-135	
98-82-8	Isopropylbenzene	ND	50	49.7	99	70-131	
79-20-9	Methyl Acetate	ND	50	41.0	82	60-127	
108-87-2	Methylcyclohexane	ND	50	43.5	87	43-163	
1634-04-4	Methyl Tert Butyl Ether	ND	100	90.4	90	70-127	

* = Outside of Control Limits.

5.3.1
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Matrix Spike Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39408-13MS	2A177302.D	1	03/24/17	JC	n/a	n/a	V2A7505
JC39408-13	2A177290.D	1	03/24/17	JC	n/a	n/a	V2A7505

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-13, JC39408-14, JC39408-15, JC39408-17, JC39408-18

CAS No.	Compound	JC39408-13 ug/l	Spike Q	ug/l	MS ug/l	MS %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	250	225	90	71-131	
75-09-2	Methylene chloride	ND	50	46.0	92	69-127	
100-42-5	Styrene	ND	50	47.6	95	76-128	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	43.8	88	70-122	
127-18-4	Tetrachloroethene	ND	50	50.4	101	55-144	
108-88-3	Toluene	ND	50	47.3	95	61-136	
87-61-6	1,2,3-Trichlorobenzene	ND	50	42.8	86	68-135	
120-82-1	1,2,4-Trichlorobenzene	ND	50	45.7	91	73-136	
71-55-6	1,1,1-Trichloroethane	ND	50	48.9	98	70-147	
79-00-5	1,1,2-Trichloroethane	ND	50	45.7	91	78-122	
79-01-6	Trichloroethene	ND	50	48.1	96	62-141	
75-69-4	Trichlorofluoromethane	ND	50	50.8	102	50-152	
75-01-4	Vinyl chloride	ND	50	40.7	81	44-136	
	m,p-Xylene	ND	100	97.4	97	50-144	
95-47-6	o-Xylene	ND	50	49.5	99	62-137	
1330-20-7	Xylene (total)	ND	150	147	98	56-141	

CAS No.	Surrogate Recoveries	MS	JC39408-13	Limits
1868-53-7	Dibromofluoromethane	98%	97%	76-120%
17060-07-0	1,2-Dichloroethane-D4	101%	101%	73-122%
2037-26-5	Toluene-D8	97%	100%	84-119%
460-00-4	4-Bromofluorobenzene	99%	99%	78-117%

* = Outside of Control Limits.

5.3.1
 5

Matrix Spike Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39408-4MS	X170989.D	1	03/25/17	TP	n/a	n/a	VX7265
JC39408-4	X170982.D	1	03/24/17	TP	n/a	n/a	VX7265

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-1, JC39408-2, JC39408-4

CAS No.	Compound	JC39408-4 ug/kg	Spike Q	ug/kg	MS ug/kg	MS %	Limits
67-64-1	Acetone	ND		192	265	138	10-180
71-43-2	Benzene	0.23	J	47.9	21.3	44* a	48-136
74-97-5	Bromochloromethane	ND		47.9	26.2	55	53-137
75-27-4	Bromodichloromethane	ND		47.9	25.1	52	50-145
75-25-2	Bromoform	ND		47.9	30.7	64	39-148
74-83-9	Bromomethane	ND		47.9	26.3	55	12-156
78-93-3	2-Butanone (MEK)	ND		192	206	108	26-164
75-15-0	Carbon disulfide	ND		47.9	20.5	43	34-146
56-23-5	Carbon tetrachloride	ND		47.9	22.2	46	43-152
108-90-7	Chlorobenzene	ND		47.9	20.1	42	38-144
75-00-3	Chloroethane	ND		47.9	29.6	62	26-154
67-66-3	Chloroform	ND		47.9	23.8	50* a	52-134
74-87-3	Chloromethane	ND		47.9	28.2	59	41-142
110-82-7	Cyclohexane	ND		47.9	25.9	54	22-154
96-12-8	1,2-Dibromo-3-chloropropane	ND		47.9	34.8	73	29-145
124-48-1	Dibromochloromethane	ND		47.9	27.5	57	49-142
106-93-4	1,2-Dibromoethane	ND		47.9	28.1	59	46-139
95-50-1	1,2-Dichlorobenzene	ND		47.9	20.3	42	30-144
541-73-1	1,3-Dichlorobenzene	ND		47.9	17.9	37	28-148
106-46-7	1,4-Dichlorobenzene	ND		47.9	17.2	36	30-142
75-71-8	Dichlorodifluoromethane	ND		47.9	26.8	56	31-161
75-34-3	1,1-Dichloroethane	ND		47.9	23.4	49* a	54-137
107-06-2	1,2-Dichloroethane	ND		47.9	28.5	60	56-140
75-35-4	1,1-Dichloroethene	ND		47.9	21.6	45	41-143
156-59-2	cis-1,2-Dichloroethene	ND		47.9	22.1	46	45-137
156-60-5	trans-1,2-Dichloroethene	ND		47.9	20.0	42	42-141
78-87-5	1,2-Dichloropropane	ND		47.9	25.9	54	53-139
10061-01-5	cis-1,3-Dichloropropene	ND		47.9	24.2	51	41-144
10061-02-6	trans-1,3-Dichloropropene	ND		47.9	23.6	49	36-148
100-41-4	Ethylbenzene	ND		47.9	19.8	41	34-145
76-13-1	Freon 113	ND		47.9	34.9	73	30-152
591-78-6	2-Hexanone	ND		192	191	100	16-176
98-82-8	Isopropylbenzene	ND		47.9	18.3	38	36-145
79-20-9	Methyl Acetate	ND		47.9	79.5	166	26-176
108-87-2	Methylcyclohexane	ND		47.9	20.9	44	14-153
1634-04-4	Methyl Tert Butyl Ether	ND		95.8	71.0	74	54-129

* = Outside of Control Limits.

5.3.2
 5

Matrix Spike Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39408-4MS	X170989.D	1	03/25/17	TP	n/a	n/a	VX7265
JC39408-4	X170982.D	1	03/24/17	TP	n/a	n/a	VX7265

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-1, JC39408-2, JC39408-4

CAS No.	Compound	JC39408-4 ug/kg	Spike Q	MS ug/kg	MS %	Limits	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		192	173	90	33-154
75-09-2	Methylene chloride	ND		47.9	23.8	50	47-133
100-42-5	Styrene	ND		47.9	20.0	42	32-156
79-34-5	1,1,2,2-Tetrachloroethane	ND		47.9	34.0	71	31-149
127-18-4	Tetrachloroethene	0.50	J	47.9	26.0	53	34-163
108-88-3	Toluene	ND		47.9	19.4	41	40-141
87-61-6	1,2,3-Trichlorobenzene	ND		47.9	17.5	37	14-153
120-82-1	1,2,4-Trichlorobenzene	ND		47.9	14.6	30	14-156
71-55-6	1,1,1-Trichloroethane	ND		47.9	22.8	48	48-144
79-00-5	1,1,2-Trichloroethane	ND		47.9	30.0	63	43-146
79-01-6	Trichloroethene	ND		47.9	20.6	43	42-152
75-69-4	Trichlorofluoromethane	ND		47.9	30.4	63	39-153
75-01-4	Vinyl chloride	ND		47.9	28.7	60	38-149
	m,p-Xylene	ND		95.8	40.1	42	32-148
95-47-6	o-Xylene	ND		47.9	20.8	43	36-145
1330-20-7	Xylene (total)	ND		144	60.9	42	34-146

CAS No.	Surrogate Recoveries	MS	JC39408-4	Limits
1868-53-7	Dibromofluoromethane	105%	100%	70-122%
17060-07-0	1,2-Dichloroethane-D4	104%	96%	68-124%
2037-26-5	Toluene-D8	98%	98%	77-125%
460-00-4	4-Bromofluorobenzene	104%	103%	72-130%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

5.3.2
 5

Matrix Spike Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39405-8MS	X171056.D	1	03/27/17	TP	n/a	n/a	VX7267
JC39405-8	X171053.D	1	03/27/17	TP	n/a	n/a	VX7267

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-5

CAS No.	Compound	JC39405-8 ug/kg	Spike Q	ug/kg	MS ug/kg	MS %	Limits
67-64-1	Acetone	ND		203	145	71	10-180
71-43-2	Benzene	ND		50.7	47.2	93	48-136
74-97-5	Bromochloromethane	ND		50.7	46.1	91	53-137
75-27-4	Bromodichloromethane	ND		50.7	45.4	89	50-145
75-25-2	Bromoform	ND		50.7	40.5	80	39-148
74-83-9	Bromomethane	ND		50.7	45.8	90	12-156
78-93-3	2-Butanone (MEK)	ND		203	148	73	26-164
75-15-0	Carbon disulfide	ND		50.7	51.3	101	34-146
56-23-5	Carbon tetrachloride	ND		50.7	45.4	89	43-152
108-90-7	Chlorobenzene	ND		50.7	47.8	94	38-144
75-00-3	Chloroethane	ND		50.7	51.9	102	26-154
67-66-3	Chloroform	ND		50.7	48.2	95	52-134
74-87-3	Chloromethane	ND		50.7	48.7	96	41-142
110-82-7	Cyclohexane	ND		50.7	42.6	84	22-154
96-12-8	1,2-Dibromo-3-chloropropane	ND		50.7	37.7	74	29-145
124-48-1	Dibromochloromethane	ND		50.7	43.2	85	49-142
106-93-4	1,2-Dibromoethane	ND		50.7	40.7	80	46-139
95-50-1	1,2-Dichlorobenzene	ND		50.7	46.8	92	30-144
541-73-1	1,3-Dichlorobenzene	ND		50.7	48.1	95	28-148
106-46-7	1,4-Dichlorobenzene	ND		50.7	47.8	94	30-142
75-71-8	Dichlorodifluoromethane	ND		50.7	34.3	68	31-161
75-34-3	1,1-Dichloroethane	ND		50.7	50.5	100	54-137
107-06-2	1,2-Dichloroethane	ND		50.7	43.1	85	56-140
75-35-4	1,1-Dichloroethene	ND		50.7	47.7	94	41-143
156-59-2	cis-1,2-Dichloroethene	ND		50.7	50.9	100	45-137
156-60-5	trans-1,2-Dichloroethene	ND		50.7	49.9	98	42-141
78-87-5	1,2-Dichloropropane	ND		50.7	50.1	99	53-139
10061-01-5	cis-1,3-Dichloropropene	ND		50.7	46.7	92	41-144
10061-02-6	trans-1,3-Dichloropropene	ND		50.7	43.2	85	36-148
100-41-4	Ethylbenzene	2.1		50.7	48.4	91	34-145
76-13-1	Freon 113	ND		50.7	59.6	117	30-152
591-78-6	2-Hexanone	ND		203	144	71	16-176
98-82-8	Isopropylbenzene	ND		50.7	46.3	91	36-145
79-20-9	Methyl Acetate	ND		50.7	40.4	80	26-176
108-87-2	Methylcyclohexane	ND		50.7	39.9	79	14-153
1634-04-4	Methyl Tert Butyl Ether	ND		101	91.4	90	54-129

* = Outside of Control Limits.

5.3.3
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Matrix Spike Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39405-8MS	X171056.D	1	03/27/17	TP	n/a	n/a	VX7267
JC39405-8	X171053.D	1	03/27/17	TP	n/a	n/a	VX7267

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-5

CAS No.	Compound	JC39405-8 ug/kg	Spike Q	MS ug/kg	MS %	Limits	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		203	154	76	33-154
75-09-2	Methylene chloride	ND		50.7	44.7	88	47-133
100-42-5	Styrene	ND		50.7	47.0	93	32-156
79-34-5	1,1,2,2-Tetrachloroethane	ND		50.7	41.9	83	31-149
127-18-4	Tetrachloroethene	ND		50.7	51.0	101	34-163
108-88-3	Toluene	ND		50.7	46.6	92	40-141
87-61-6	1,2,3-Trichlorobenzene	ND		50.7	43.0	85	14-153
120-82-1	1,2,4-Trichlorobenzene	ND		50.7	45.1	89	14-156
71-55-6	1,1,1-Trichloroethane	ND		50.7	49.6	98	48-144
79-00-5	1,1,2-Trichloroethane	ND		50.7	43.6	86	43-146
79-01-6	Trichloroethene	ND		50.7	52.0	103	42-152
75-69-4	Trichlorofluoromethane	ND		50.7	40.5	80	39-153
75-01-4	Vinyl chloride	ND		50.7	47.9	94	38-149
	m,p-Xylene	3.3		101	98.6	94	32-148
95-47-6	o-Xylene	7.3		50.7	47.7	80	36-145
1330-20-7	Xylene (total)	10.6		152	146	89	34-146

CAS No.	Surrogate Recoveries	MS	JC39405-8	Limits
1868-53-7	Dibromofluoromethane	99%	102%	70-122%
17060-07-0	1,2-Dichloroethane-D4	85%	99%	68-124%
2037-26-5	Toluene-D8	100%	103%	77-125%
460-00-4	4-Bromofluorobenzene	102%	102%	72-130%

* = Outside of Control Limits.

5.3.3
 5

Matrix Spike Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39595-1MS	2A177395.D	1	03/29/17	JC	n/a	n/a	V2A7509
JC39595-1	2A177390.D	1	03/28/17	JC	n/a	n/a	V2A7509

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-16

CAS No.	Compound	JC39595-1 ug/l	Spike Q	MS ug/l	MS %	Limits
67-64-1	Acetone	ND	250	266	106	39-143
71-43-2	Benzene	ND	50	59.1	118	54-138
74-97-5	Bromochloromethane	ND	50	56.9	114	79-123
75-27-4	Bromodichloromethane	ND	50	63.8	128* a	78-123
75-25-2	Bromoform	ND	50	63.6	127	71-128
74-83-9	Bromomethane	ND	50	53.2	106	52-140
78-93-3	2-Butanone (MEK)	ND	250	290	116	57-141
75-15-0	Carbon disulfide	ND	50	62.9	126	51-156
56-23-5	Carbon tetrachloride	ND	50	68.7	137	65-148
108-90-7	Chlorobenzene	ND	50	58.8	118	76-125
75-00-3	Chloroethane	ND	50	56.5	113	55-142
67-66-3	Chloroform	ND	50	61.2	122	77-131
74-87-3	Chloromethane	ND	50	52.5	105	43-144
110-82-7	Cyclohexane	ND	50	56.2	112	41-160
96-12-8	1,2-Dibromo-3-chloropropane	ND	50	55.8	112	66-128
124-48-1	Dibromochloromethane	ND	50	60.9	122	77-124
106-93-4	1,2-Dibromoethane	ND	50	55.1	110	77-119
95-50-1	1,2-Dichlorobenzene	ND	50	59.5	119	78-122
541-73-1	1,3-Dichlorobenzene	ND	50	59.2	118	77-120
106-46-7	1,4-Dichlorobenzene	ND	50	57.3	115	75-122
75-71-8	Dichlorodifluoromethane	ND	50	56.3	113	31-155
75-34-3	1,1-Dichloroethane	ND	50	59.6	119	71-131
107-06-2	1,2-Dichloroethane	ND	50	64.5	129	72-135
75-35-4	1,1-Dichloroethene	ND	50	62.2	124	57-149
156-59-2	cis-1,2-Dichloroethene	ND	50	53.0	106	59-134
156-60-5	trans-1,2-Dichloroethene	ND	50	59.5	119	64-134
78-87-5	1,2-Dichloropropane	ND	50	57.8	116	76-122
10061-01-5	cis-1,3-Dichloropropene	ND	50	58.6	117	80-124
10061-02-6	trans-1,3-Dichloropropene	ND	50	59.6	119	78-124
100-41-4	Ethylbenzene	ND	50	60.0	120	48-143
76-13-1	Freon 113	ND	50	100	200* b	56-179
591-78-6	2-Hexanone	ND	250	288	115	63-135
98-82-8	Isopropylbenzene	ND	50	61.6	123	70-131
79-20-9	Methyl Acetate	ND	50	55.1	110	60-127
108-87-2	Methylcyclohexane	ND	50	68.1	136	43-163
1634-04-4	Methyl Tert Butyl Ether	136	100	247	111	70-127

* = Outside of Control Limits.

5.3.4
 5

Matrix Spike Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39595-1MS	2A177395.D	1	03/29/17	JC	n/a	n/a	V2A7509
JC39595-1	2A177390.D	1	03/28/17	JC	n/a	n/a	V2A7509

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-16

CAS No.	Compound	JC39595-1 ug/l	Spike Q	MS ug/l	MS %	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	250	291	116	71-131
75-09-2	Methylene chloride	ND	50	59.3	119	69-127
100-42-5	Styrene	ND	50	59.3	119	76-128
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	51.0	102	70-122
127-18-4	Tetrachloroethene	ND	50	63.6	127	55-144
108-88-3	Toluene	ND	50	60.5	121	61-136
87-61-6	1,2,3-Trichlorobenzene	ND	50	57.1	114	68-135
120-82-1	1,2,4-Trichlorobenzene	ND	50	58.7	117	73-136
71-55-6	1,1,1-Trichloroethane	ND	50	66.5	133	70-147
79-00-5	1,1,2-Trichloroethane	ND	50	55.8	112	78-122
79-01-6	Trichloroethene	ND	50	62.3	125	62-141
75-69-4	Trichlorofluoromethane	ND	50	69.7	139	50-152
75-01-4	Vinyl chloride	ND	50	54.1	108	44-136
	m,p-Xylene	ND	100	121	121	50-144
95-47-6	o-Xylene	ND	50	60.5	121	62-137
1330-20-7	Xylene (total)	ND	150	181	121	56-141

CAS No.	Surrogate Recoveries	MS	JC39595-1	Limits
1868-53-7	Dibromofluoromethane	100%	97%	76-120%
17060-07-0	1,2-Dichloroethane-D4	105%	102%	73-122%
2037-26-5	Toluene-D8	98%	98%	84-119%
460-00-4	4-Bromofluorobenzene	99%	100%	78-117%

- (a) Outside control limits due to matrix interference.
- (b) Outside control limits.

* = Outside of Control Limits.

5.3.4
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Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39242-9MS	X171016.D	1	03/25/17	TP	n/a	n/a	VX7266
JC39242-9MSD	X171017.D	1	03/25/17	TP	n/a	n/a	VX7266
JC39242-9	X171012.D	1	03/25/17	TP	n/a	n/a	VX7266

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

CAS No.	Compound	JC39242-9		Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
		ug/kg	Q								
67-64-1	Acetone	44.5		204	148	51	243	167	50	12	10-180/33
71-43-2	Benzene	ND		50.9	46.8	92	60.7	56.6	93	19	48-136/30
74-97-5	Bromochloromethane	ND		50.9	45.5	89	60.7	55.6	92	20	53-137/26
75-27-4	Bromodichloromethane	ND		50.9	47.4	93	60.7	57.2	94	19	50-145/28
75-25-2	Bromoform	ND		50.9	39.9	78	60.7	49.2	81	21	39-148/24
74-83-9	Bromomethane	ND		50.9	37.5	74	60.7	46.5	77	21	12-156/32
78-93-3	2-Butanone (MEK)	ND		204	138	68	243	165	68	18	26-164/30
75-15-0	Carbon disulfide	ND		50.9	48.0	94	60.7	59.3	98	21	34-146/31
56-23-5	Carbon tetrachloride	ND		50.9	47.7	94	60.7	58.9	97	21	43-152/31
108-90-7	Chlorobenzene	ND		50.9	48.6	95	60.7	59.7	98	20	38-144/29
75-00-3	Chloroethane	ND		50.9	43.6	86	60.7	53.7	89	21	26-154/34
67-66-3	Chloroform	ND		50.9	49.1	96	60.7	58.9	97	18	52-134/27
74-87-3	Chloromethane	ND		50.9	38.1	75	60.7	48.7	80	24	41-142/28
110-82-7	Cyclohexane	ND		50.9	44.7	88	60.7	54.0	89	19	22-154/33
96-12-8	1,2-Dibromo-3-chloropropane	ND		50.9	41.1	81	60.7	47.1	78	14	29-145/26
124-48-1	Dibromochloromethane	ND		50.9	45.3	89	60.7	53.8	89	17	49-142/24
106-93-4	1,2-Dibromoethane	ND		50.9	41.0	81	60.7	50.1	83	20	46-139/24
95-50-1	1,2-Dichlorobenzene	ND		50.9	48.4	95	60.7	59.7	98	21	30-144/30
541-73-1	1,3-Dichlorobenzene	ND		50.9	50.8	100	60.7	60.4	100	17	28-148/31
106-46-7	1,4-Dichlorobenzene	ND		50.9	50.9	100	60.7	59.9	99	16	30-142/31
75-71-8	Dichlorodifluoromethane	ND		50.9	33.1	65	60.7	40.0	66	19	31-161/28
75-34-3	1,1-Dichloroethane	ND		50.9	49.4	97	60.7	58.5	96	17	54-137/28
107-06-2	1,2-Dichloroethane	ND		50.9	45.9	90	60.7	54.3	90	17	56-140/24
75-35-4	1,1-Dichloroethene	ND		50.9	46.5	91	60.7	56.1	92	19	41-143/30
156-59-2	cis-1,2-Dichloroethene	ND		50.9	49.0	96	60.7	58.8	97	18	45-137/28
156-60-5	trans-1,2-Dichloroethene	ND		50.9	49.3	97	60.7	59.0	97	18	42-141/30
78-87-5	1,2-Dichloropropane	ND		50.9	51.3	101	60.7	61.3	101	18	53-139/27
10061-01-5	cis-1,3-Dichloropropene	ND		50.9	47.0	92	60.7	56.6	93	19	41-144/26
10061-02-6	trans-1,3-Dichloropropene	ND		50.9	45.3	89	60.7	53.7	89	17	36-148/27
100-41-4	Ethylbenzene	ND		50.9	50.3	99	60.7	60.3	99	18	34-145/29
76-13-1	Freon 113	ND		50.9	52.3	103	60.7	63.0	104	19	30-152/29
591-78-6	2-Hexanone	ND		204	143	70	243	173	71	19	16-176/32
98-82-8	Isopropylbenzene	ND		50.9	50.0	98	60.7	59.6	98	18	36-145/33
79-20-9	Methyl Acetate	ND		50.9	41.0	81	60.7	51.1	84	22	26-176/29
108-87-2	Methylcyclohexane	ND		50.9	42.2	83	60.7	50.6	83	18	14-153/33
1634-04-4	Methyl Tert Butyl Ether	ND		102	87.4	86	121	104	86	17	54-129/25

* = Outside of Control Limits.

5.4.1
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Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC39408

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39242-9MS	X171016.D	1	03/25/17	TP	n/a	n/a	VX7266
JC39242-9MSD	X171017.D	1	03/25/17	TP	n/a	n/a	VX7266
JC39242-9	X171012.D	1	03/25/17	TP	n/a	n/a	VX7266

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

CAS No.	Compound	JC39242-9 ug/kg	Spike Q	ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		204	148	73	243	178	73	18	33-154/29
75-09-2	Methylene chloride	1.5	J	50.9	41.6	79	60.7	50.7	81	20	47-133/25
100-42-5	Styrene	ND		50.9	46.7	92	60.7	58.7	97	23	32-156/31
79-34-5	1,1,2,2-Tetrachloroethane	ND		50.9	43.7	86	60.7	49.7	82	13	31-149/25
127-18-4	Tetrachloroethene	ND		50.9	54.1	106	60.7	64.1	106	17	34-163/31
108-88-3	Toluene	0.28	J	50.9	49.0	96	60.7	57.0	94	15	40-141/30
87-61-6	1,2,3-Trichlorobenzene	ND		50.9	50.9	100	60.7	56.8	94	11	14-153/35
120-82-1	1,2,4-Trichlorobenzene	ND		50.9	51.5	101	60.7	59.5	98	14	14-156/36
71-55-6	1,1,1-Trichloroethane	ND		50.9	50.2	99	60.7	62.1	102	21	48-144/29
79-00-5	1,1,2-Trichloroethane	ND		50.9	44.0	86	60.7	52.9	87	18	43-146/27
79-01-6	Trichloroethene	ND		50.9	51.9	102	60.7	64.4	106	21	42-152/29
75-69-4	Trichlorofluoromethane	ND		50.9	38.4	75	60.7	46.3	76	19	39-153/27
75-01-4	Vinyl chloride	ND		50.9	36.5	72	60.7	46.8	77	25	38-149/29
	m,p-Xylene	ND		102	100	98	121	121	100	19	32-148/30
95-47-6	o-Xylene	ND		50.9	48.3	95	60.7	57.7	95	18	36-145/30
1330-20-7	Xylene (total)	ND		153	149	98	182	179	98	18	34-146/29

CAS No.	Surrogate Recoveries	MS	MSD	JC39242-9	Limits
1868-53-7	Dibromofluoromethane	99%	97%	103%	70-122%
17060-07-0	1,2-Dichloroethane-D4	88%	89%	104%	68-124%
2037-26-5	Toluene-D8	103%	99%	103%	77-125%
460-00-4	4-Bromofluorobenzene	107%	105%	101%	72-130%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39408-15DUP	2A177303.D	1	03/24/17	JC	n/a	n/a	V2A7505
JC39408-15	2A177291.D	1	03/24/17	JC	n/a	n/a	V2A7505

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-13, JC39408-14, JC39408-15, JC39408-17, JC39408-18

CAS No.	Compound	JC39408-15 DUP		Q	RPD	Limits
		ug/l	Q ug/l			
67-64-1	Acetone	ND	ND	nc		20
71-43-2	Benzene	ND	ND	nc		20
74-97-5	Bromochloromethane	ND	ND	nc		20
75-27-4	Bromodichloromethane	ND	ND	nc		20
75-25-2	Bromoform	ND	ND	nc		20
74-83-9	Bromomethane	ND	ND	nc		20
78-93-3	2-Butanone (MEK)	ND	ND	nc		20
75-15-0	Carbon disulfide	ND	ND	nc		20
56-23-5	Carbon tetrachloride	ND	ND	nc		20
108-90-7	Chlorobenzene	ND	ND	nc		20
75-00-3	Chloroethane	ND	ND	nc		20
67-66-3	Chloroform	ND	ND	nc		20
74-87-3	Chloromethane	ND	ND	nc		20
110-82-7	Cyclohexane	ND	ND	nc		20
96-12-8	1,2-Dibromo-3-chloropropane	ND	ND	nc		20
124-48-1	Dibromochloromethane	ND	ND	nc		20
106-93-4	1,2-Dibromoethane	ND	ND	nc		20
95-50-1	1,2-Dichlorobenzene	ND	ND	nc		20
541-73-1	1,3-Dichlorobenzene	ND	ND	nc		20
106-46-7	1,4-Dichlorobenzene	ND	ND	nc		20
75-71-8	Dichlorodifluoromethane	ND	ND	nc		20
75-34-3	1,1-Dichloroethane	ND	ND	nc		20
107-06-2	1,2-Dichloroethane	ND	ND	nc		20
75-35-4	1,1-Dichloroethene	ND	ND	nc		20
156-59-2	cis-1,2-Dichloroethene	ND	ND	nc		20
156-60-5	trans-1,2-Dichloroethene	ND	ND	nc		20
78-87-5	1,2-Dichloropropane	ND	ND	nc		20
10061-01-5	cis-1,3-Dichloropropene	ND	ND	nc		20
10061-02-6	trans-1,3-Dichloropropene	ND	ND	nc		20
100-41-4	Ethylbenzene	ND	ND	nc		20
76-13-1	Freon 113	ND	ND	nc		20
591-78-6	2-Hexanone	ND	ND	nc		20
98-82-8	Isopropylbenzene	ND	ND	nc		20
79-20-9	Methyl Acetate	ND	ND	nc		20
108-87-2	Methylcyclohexane	ND	ND	nc		20
1634-04-4	Methyl Tert Butyl Ether	ND	ND	nc		20

* = Outside of Control Limits.

5.5.1
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Duplicate Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39408-15DUP	2A177303.D	1	03/24/17	JC	n/a	n/a	V2A7505
JC39408-15	2A177291.D	1	03/24/17	JC	n/a	n/a	V2A7505

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-13, JC39408-14, JC39408-15, JC39408-17, JC39408-18

CAS No.	Compound	JC39408-15 DUP		Q	RPD	Limits
		ug/l	Q ug/l			
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	ND	nc		20
75-09-2	Methylene chloride	ND	ND	nc		20
100-42-5	Styrene	ND	ND	nc		20
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND	nc		20
127-18-4	Tetrachloroethene	ND	ND	nc		20
108-88-3	Toluene	ND	ND	nc		20
87-61-6	1,2,3-Trichlorobenzene	ND	ND	nc		20
120-82-1	1,2,4-Trichlorobenzene	ND	ND	nc		20
71-55-6	1,1,1-Trichloroethane	ND	ND	nc		20
79-00-5	1,1,2-Trichloroethane	ND	ND	nc		20
79-01-6	Trichloroethene	ND	ND	nc		20
75-69-4	Trichlorofluoromethane	ND	ND	nc		20
75-01-4	Vinyl chloride	ND	ND	nc		20
	m,p-Xylene	ND	ND	nc		20
95-47-6	o-Xylene	ND	ND	nc		20
1330-20-7	Xylene (total)	ND	ND	nc		20

CAS No.	Surrogate Recoveries	DUP	JC39408-15	Limits
1868-53-7	Dibromofluoromethane	97%	96%	76-120%
17060-07-0	1,2-Dichloroethane-D4	100%	100%	73-122%
2037-26-5	Toluene-D8	98%	99%	84-119%
460-00-4	4-Bromofluorobenzene	99%	100%	78-117%

* = Outside of Control Limits.

5.5.1
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Duplicate Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39405-7DUP	X171052.D	1	03/27/17	TP	n/a	n/a	VX7267
JC39405-7	X171058.D	1	03/27/17	TP	n/a	n/a	VX7267

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-5

CAS No.	Compound	JC39405-7 ug/kg	DUP Q ug/kg	Q	RPD	Limits
67-64-1	Acetone	59.3	59.7	1		35
71-43-2	Benzene	ND	ND	nc		17
74-97-5	Bromochloromethane	ND	ND	nc		30
75-27-4	Bromodichloromethane	ND	ND	nc		30
75-25-2	Bromoform	ND	ND	nc		30
74-83-9	Bromomethane	ND	ND	nc		30
78-93-3	2-Butanone (MEK)	ND	ND	nc		30
75-15-0	Carbon disulfide	ND	ND	nc		20
56-23-5	Carbon tetrachloride	ND	ND	nc		30
108-90-7	Chlorobenzene	ND	ND	nc		30
75-00-3	Chloroethane	ND	ND	nc		30
67-66-3	Chloroform	ND	ND	nc		30
74-87-3	Chloromethane	ND	ND	nc		30
110-82-7	Cyclohexane	ND	ND	nc		30
96-12-8	1,2-Dibromo-3-chloropropane	ND	ND	nc		30
124-48-1	Dibromochloromethane	ND	ND	nc		30
106-93-4	1,2-Dibromoethane	ND	ND	nc		30
95-50-1	1,2-Dichlorobenzene	ND	ND	nc		30
541-73-1	1,3-Dichlorobenzene	ND	ND	nc		30
106-46-7	1,4-Dichlorobenzene	ND	ND	nc		30
75-71-8	Dichlorodifluoromethane	ND	ND	nc		30
75-34-3	1,1-Dichloroethane	ND	ND	nc		30
107-06-2	1,2-Dichloroethane	ND	ND	nc		30
75-35-4	1,1-Dichloroethene	ND	ND	nc		30
156-59-2	cis-1,2-Dichloroethene	ND	ND	nc		30
156-60-5	trans-1,2-Dichloroethene	ND	ND	nc		30
78-87-5	1,2-Dichloropropane	ND	ND	nc		30
10061-01-5	cis-1,3-Dichloropropene	ND	ND	nc		30
10061-02-6	trans-1,3-Dichloropropene	ND	ND	nc		30
100-41-4	Ethylbenzene	ND	ND	nc		23
76-13-1	Freon 113	ND	ND	nc		30
591-78-6	2-Hexanone	ND	ND	nc		30
98-82-8	Isopropylbenzene	ND	ND	nc		22
79-20-9	Methyl Acetate	ND	ND	nc		30
108-87-2	Methylcyclohexane	ND	ND	nc		18
1634-04-4	Methyl Tert Butyl Ether	ND	ND	nc		30

* = Outside of Control Limits.

5.5.2
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Duplicate Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39405-7DUP	X171052.D	1	03/27/17	TP	n/a	n/a	VX7267
JC39405-7	X171058.D	1	03/27/17	TP	n/a	n/a	VX7267

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-5

CAS No.	Compound	JC39405-7 ug/kg	DUP Q	ug/kg	Q	RPD	Limits
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	30
75-09-2	Methylene chloride	ND		ND		nc	37
100-42-5	Styrene	ND		ND		nc	30
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	30
127-18-4	Tetrachloroethene	ND		ND		nc	30
108-88-3	Toluene	ND		ND		nc	22
87-61-6	1,2,3-Trichlorobenzene	ND		ND		nc	30
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	30
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	30
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	30
79-01-6	Trichloroethene	ND		ND		nc	17
75-69-4	Trichlorofluoromethane	ND		ND		nc	30
75-01-4	Vinyl chloride	ND		ND		nc	30
	m,p-Xylene	ND		ND		nc	20
95-47-6	o-Xylene	ND		ND		nc	19
1330-20-7	Xylene (total)	ND		ND		nc	21

CAS No.	Surrogate Recoveries	DUP	JC39405-7	Limits
1868-53-7	Dibromofluoromethane	102%	102%	70-122%
17060-07-0	1,2-Dichloroethane-D4	97%	101%	68-124%
2037-26-5	Toluene-D8	100%	102%	77-125%
460-00-4	4-Bromofluorobenzene	105%	104%	72-130%

(a) This compound in BS is outside in house QC limits bias high.

* = Outside of Control Limits.

5.5.2
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Duplicate Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39751-2DUP	2A177394.D	1	03/29/17	JC	n/a	n/a	V2A7509
JC39751-2	2A177388.D	1	03/28/17	JC	n/a	n/a	V2A7509

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-16

CAS No.	Compound	JC39751-2 ug/l	DUP Q ug/l	Q	RPD	Limits
67-64-1	Acetone	ND	ND	nc		20
71-43-2	Benzene	ND	ND	nc		20
74-97-5	Bromochloromethane	ND	ND	nc		20
75-27-4	Bromodichloromethane	ND	ND	nc		20
75-25-2	Bromoform	ND	ND	nc		20
74-83-9	Bromomethane	ND	ND	nc		20
78-93-3	2-Butanone (MEK)	ND	ND	nc		20
75-15-0	Carbon disulfide	ND	ND	nc		20
56-23-5	Carbon tetrachloride	ND	ND	nc		20
108-90-7	Chlorobenzene	ND	ND	nc		20
75-00-3	Chloroethane	ND	ND	nc		20
67-66-3	Chloroform	ND	ND	nc		20
74-87-3	Chloromethane	ND	ND	nc		20
110-82-7	Cyclohexane	ND	ND	nc		20
96-12-8	1,2-Dibromo-3-chloropropane	ND	ND	nc		20
124-48-1	Dibromochloromethane	ND	ND	nc		20
106-93-4	1,2-Dibromoethane	ND	ND	nc		20
95-50-1	1,2-Dichlorobenzene	ND	ND	nc		20
541-73-1	1,3-Dichlorobenzene	ND	ND	nc		20
106-46-7	1,4-Dichlorobenzene	ND	ND	nc		20
75-71-8	Dichlorodifluoromethane	ND	ND	nc		20
75-34-3	1,1-Dichloroethane	ND	ND	nc		20
107-06-2	1,2-Dichloroethane	ND	ND	nc		20
75-35-4	1,1-Dichloroethene	ND	ND	nc		20
156-59-2	cis-1,2-Dichloroethene	ND	ND	nc		20
156-60-5	trans-1,2-Dichloroethene	ND	ND	nc		20
78-87-5	1,2-Dichloropropane	ND	ND	nc		20
10061-01-5	cis-1,3-Dichloropropene	ND	ND	nc		20
10061-02-6	trans-1,3-Dichloropropene	ND	ND	nc		20
100-41-4	Ethylbenzene	ND	ND	nc		20
76-13-1	Freon 113	ND	ND	nc		20
591-78-6	2-Hexanone	ND	ND	nc		20
98-82-8	Isopropylbenzene	ND	ND	nc		20
79-20-9	Methyl Acetate	ND	ND	nc		20
108-87-2	Methylcyclohexane	ND	ND	nc		20
1634-04-4	Methyl Tert Butyl Ether	80.2	75.2	6		20

* = Outside of Control Limits.

5.5.3
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Duplicate Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JC39751-2DUP	2A177394.D	1	03/29/17	JC	n/a	n/a	V2A7509
JC39751-2	2A177388.D	1	03/28/17	JC	n/a	n/a	V2A7509

The QC reported here applies to the following samples:

Method: SW846 8260C

JC39408-16

CAS No.	Compound	JC39751-2		Q	RPD	Limits
		ug/l	DUP ug/l			
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	ND		nc	20
75-09-2	Methylene chloride	ND	ND		nc	20
100-42-5	Styrene	ND	ND		nc	20
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND		nc	20
127-18-4	Tetrachloroethene	ND	ND		nc	20
108-88-3	Toluene	ND	ND		nc	20
87-61-6	1,2,3-Trichlorobenzene	ND	ND		nc	20
120-82-1	1,2,4-Trichlorobenzene	ND	ND		nc	20
71-55-6	1,1,1-Trichloroethane	ND	ND		nc	20
79-00-5	1,1,2-Trichloroethane	ND	ND		nc	20
79-01-6	Trichloroethene	ND	ND		nc	20
75-69-4	Trichlorofluoromethane	ND	ND		nc	20
75-01-4	Vinyl chloride	ND	ND		nc	20
	m,p-Xylene	ND	ND		nc	20
95-47-6	o-Xylene	ND	ND		nc	20
1330-20-7	Xylene (total)	ND	ND		nc	20

CAS No.	Surrogate Recoveries	DUP	JC39751-2	Limits
1868-53-7	Dibromofluoromethane	101%	100%	76-120%
17060-07-0	1,2-Dichloroethane-D4	106%	107%	73-122%
2037-26-5	Toluene-D8	100%	98%	84-119%
460-00-4	4-Bromofluorobenzene	101%	99%	78-117%

* = Outside of Control Limits.

5.5.3
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Instrument Performance Check (BFB)

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: V2A7430-BFB	Injection Date: 02/01/17
Lab File ID: 2A175570.D	Injection Time: 12:50
Instrument ID: GCMS2A	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	16847	16.3	Pass
75	30.0 - 60.0% of mass 95	45344	43.8	Pass
95	Base peak, 100% relative abundance	103469	100.0	Pass
96	5.0 - 9.0% of mass 95	6818	6.59	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	100173	96.8	Pass
175	5.0 - 9.0% of mass 174	7942	7.68 (7.93) ^a	Pass
176	95.0 - 101.0% of mass 174	98944	95.6 (98.8) ^a	Pass
177	5.0 - 9.0% of mass 176	6321	6.11 (6.39) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2A7430-IC7430	2A175571.D	02/01/17	14:23	01:33	Initial cal 0.2
V2A7430-IC7430	2A175572.D	02/01/17	14:52	02:02	Initial cal 0.5
V2A7430-IC7430	2A175573.D	02/01/17	15:22	02:32	Initial cal 1
V2A7430-IC7430	2A175574.D	02/01/17	15:52	03:02	Initial cal 2
V2A7430-IC7430	2A175575.D	02/01/17	16:21	03:31	Initial cal 5
V2A7430-IC7430	2A175576.D	02/01/17	16:51	04:01	Initial cal 10
V2A7430-IC7430	2A175577.D	02/01/17	17:20	04:30	Initial cal 20
V2A7430-ICC7430	2A175578.D	02/01/17	17:50	05:00	Initial cal 50
V2A7430-IC7430	2A175579.D	02/01/17	18:20	05:30	Initial cal 100
V2A7430-IC7430	2A175580.D	02/01/17	18:50	06:00	Initial cal 200
V2A7430-ICV7430	2A175583.D	02/01/17	20:19	07:29	Initial cal verification 50

5.6.1
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Instrument Performance Check (BFB)

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: V2A7505-BFB	Injection Date: 03/24/17
Lab File ID: 2A177287A.D	Injection Time: 09:28
Instrument ID: GCMS2A	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	14199	18.2	Pass
75	30.0 - 60.0% of mass 95	37112	47.6	Pass
95	Base peak, 100% relative abundance	78032	100.0	Pass
96	5.0 - 9.0% of mass 95	5196	6.66	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	75634	96.9	Pass
175	5.0 - 9.0% of mass 174	6444	8.26 (8.52) ^a	Pass
176	95.0 - 101.0% of mass 174	73744	94.5 (97.5) ^a	Pass
177	5.0 - 9.0% of mass 176	5117	6.56 (6.94) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2A7505-CC7430	2A177287.D	03/24/17	09:28	00:00	Continuing cal 50
V2A7505-MB	2A177288.D	03/24/17	09:59	00:31	Method Blank
V2A7505-BS	2A177289.D	03/24/17	10:46	01:18	Blank Spike
JC39408-13	2A177290.D	03/24/17	11:25	01:57	SB-2
JC39408-15	2A177291.D	03/24/17	11:54	02:26	SB-4
ZZZZZZ	2A177292.D	03/24/17	12:23	02:55	(unrelated sample)
ZZZZZZ	2A177293.D	03/24/17	12:52	03:24	(unrelated sample)
ZZZZZZ	2A177294.D	03/24/17	13:22	03:54	(unrelated sample)
ZZZZZZ	2A177297.D	03/24/17	14:49	05:21	(unrelated sample)
ZZZZZZ	2A177301.D	03/24/17	17:20	07:52	(unrelated sample)
JC39408-13MS	2A177302.D	03/24/17	17:50	08:22	Matrix Spike
JC39408-15DUP	2A177303.D	03/24/17	18:19	08:51	Duplicate
JC39408-14	2A177304.D	03/24/17	18:49	09:21	SB-3
JC39408-17	2A177306.D	03/24/17	19:48	10:20	SB-7
JC39408-18	2A177307.D	03/24/17	20:17	10:49	SB-8
ZZZZZZ	2A177308.D	03/24/17	20:47	11:19	(unrelated sample)
ZZZZZZ	2A177309.D	03/24/17	21:16	11:48	(unrelated sample)

5.6.2
 5

Instrument Performance Check (BFB)

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: V2A7509-BFB	Injection Date: 03/28/17
Lab File ID: 2A177369A.D	Injection Time: 10:34
Instrument ID: GCMS2A	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	17427	17.9	Pass
75	30.0 - 60.0% of mass 95	44386	45.5	Pass
95	Base peak, 100% relative abundance	97602	100.0	Pass
96	5.0 - 9.0% of mass 95	6517	6.68	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	91997	94.3	Pass
175	5.0 - 9.0% of mass 174	7513	7.70 (8.17) ^a	Pass
176	95.0 - 101.0% of mass 174	90776	93.0 (98.7) ^a	Pass
177	5.0 - 9.0% of mass 176	6125	6.28 (6.75) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2A7509-CC7430	2A177369.D	03/28/17	10:34	00:00	Continuing cal 20
V2A7508-BS	2A177371.D	03/28/17	11:48	01:14	Blank Spike
V2A7509-MB	2A177372.D	03/28/17	12:42	02:08	Method Blank
V2A7508-MB	2A177372.D	03/28/17	12:42	02:08	Method Blank
V2A7508-BS	2A177373.D	03/28/17	13:23	02:49	Blank Spike
V2A7509-BS	2A177373.D	03/28/17	13:23	02:49	Blank Spike
ZZZZZZ	2A177374.D	03/28/17	14:12	03:38	(unrelated sample)
ZZZZZZ	2A177375.D	03/28/17	14:48	04:14	(unrelated sample)
ZZZZZZ	2A177376.D	03/28/17	15:18	04:44	(unrelated sample)
JC39467-7	2A177377.D	03/28/17	15:48	05:14	(used for QC only; not part of job JC39408)
JC39408-16	2A177379.D	03/28/17	16:48	06:14	SB-6
ZZZZZZ	2A177380.D	03/28/17	17:18	06:44	(unrelated sample)
ZZZZZZ	2A177381.D	03/28/17	17:47	07:13	(unrelated sample)
ZZZZZZ	2A177382.D	03/28/17	18:17	07:43	(unrelated sample)
ZZZZZZ	2A177385.D	03/28/17	19:45	09:11	(unrelated sample)
ZZZZZZ	2A177386.D	03/28/17	20:14	09:40	(unrelated sample)
ZZZZZZ	2A177387.D	03/28/17	20:44	10:10	(unrelated sample)
JC39751-2	2A177388.D	03/28/17	21:13	10:39	(used for QC only; not part of job JC39408)
ZZZZZZ	2A177389.D	03/28/17	21:43	11:09	(unrelated sample)
JC39595-1	2A177390.D	03/28/17	22:13	11:39	(used for QC only; not part of job JC39408)

5.6.3
5

Instrument Performance Check (BFB)

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: V2A7509-BFB2	Injection Date: 03/29/17
Lab File ID: 2A177392A.D	Injection Time: 09:09
Instrument ID: GCMS2A	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	18264	18.2	Pass
75	30.0 - 60.0% of mass 95	47690	47.5	Pass
95	Base peak, 100% relative abundance	100405	100.0	Pass
96	5.0 - 9.0% of mass 95	6450	6.42	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	97098	96.7	Pass
175	5.0 - 9.0% of mass 174	8031	8.00 (8.27) ^a	Pass
176	95.0 - 101.0% of mass 174	95994	95.6 (98.9) ^a	Pass
177	5.0 - 9.0% of mass 176	6155	6.13 (6.41) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V2A7509-CC7430	2A177392.D	03/29/17	09:09	00:00	Continuing cal 20
V2A7509-MB2	2A177393.D	03/29/17	09:44	00:35	Method Blank
JC39751-2DUP	2A177394.D	03/29/17	10:15	01:06	Duplicate
ZZZZZZ	2A177394A.D	03/29/17	10:56	01:47	(unrelated sample)
JC39595-1MS	2A177395.D	03/29/17	11:52	02:43	Matrix Spike

5.6.4
5

Instrument Performance Check (BFB)

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: VX7262-BFB2	Injection Date: 03/21/17
Lab File ID: X170880.D	Injection Time: 22:09
Instrument ID: GCMSX	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	10589	18.5	Pass
75	30.0 - 60.0% of mass 95	26720	46.6	Pass
95	Base peak, 100% relative abundance	57384	100.0	Pass
96	5.0 - 9.0% of mass 95	3595	6.26	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	58365	101.7	Pass
175	5.0 - 9.0% of mass 174	4776	8.32 (8.18) ^a	Pass
176	95.0 - 101.0% of mass 174	56661	98.7 (97.1) ^a	Pass
177	5.0 - 9.0% of mass 176	3755	6.54 (6.63) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VX7262-IC7262	X170881.D	03/21/17	23:08	00:59	Initial cal 0.2
VX7262-IC7262	X170882.D	03/21/17	23:38	01:29	Initial cal 0.5
VX7262-IC7262	X170883.D	03/22/17	00:08	01:59	Initial cal 1
VX7262-IC7262	X170884.D	03/22/17	00:38	02:29	Initial cal 2
VX7262-IC7262	X170885.D	03/22/17	01:08	02:59	Initial cal 4
VX7262-IC7262	X170886.D	03/22/17	01:38	03:29	Initial cal 8
VX7262-IC7262	X170887.D	03/22/17	02:08	03:59	Initial cal 20
VX7262-IC7262	X170888.D	03/22/17	02:39	04:30	Initial cal 50
VX7262-IC7262	X170889.D	03/22/17	03:09	05:00	Initial cal 100
VX7262-IC7262	X170890.D	03/22/17	03:39	05:30	Initial cal 200
VX7262-ICV7262	X170893.D	03/22/17	05:08	06:59	Initial cal verification 50
VX7263-MB	X170895.D	03/22/17	06:07	07:58	Method Blank
ZZZZZZ	X170896.D	03/22/17	06:37	08:28	(unrelated sample)
ZZZZZZ	X170897.D	03/22/17	07:07	08:58	(unrelated sample)
ZZZZZZ	X170898.D	03/22/17	07:37	09:28	(unrelated sample)
ZZZZZZ	X170899.D	03/22/17	08:07	09:58	(unrelated sample)
ZZZZZZ	X170900.D	03/22/17	08:37	10:28	(unrelated sample)
ZZZZZZ	X170901.D	03/22/17	09:08	10:59	(unrelated sample)
ZZZZZZ	X170902.D	03/22/17	09:37	11:28	(unrelated sample)
ZZZZZZ	X170903.D	03/22/17	10:07	11:58	(unrelated sample)

5.6.5
5

Instrument Performance Check (BFB)

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: VX7262-BFB	Injection Date: 03/22/17
Lab File ID: X170909.D	Injection Time: 21:24
Instrument ID: GCMSX	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	10631	18.3	Pass
75	30.0 - 60.0% of mass 95	27877	47.9	Pass
95	Base peak, 100% relative abundance	58240	100.0	Pass
96	5.0 - 9.0% of mass 95	3808	6.54	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	60680	104.2	Pass
175	5.0 - 9.0% of mass 174	5103	8.76 (8.41) ^a	Pass
176	95.0 - 101.0% of mass 174	59637	102.4 (98.3) ^a	Pass
177	5.0 - 9.0% of mass 176	3904	6.70 (6.55) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VX7262-IC7262	X170910.D	03/22/17	22:30	01:06	Initial cal 0.2
VX7262-IC7262	X170911.D	03/22/17	23:00	01:36	Initial cal 0.5
VX7262-IC7262	X170912.D	03/22/17	23:30	02:06	Initial cal 1
VX7262-IC7262	X170913.D	03/22/17	23:59	02:35	Initial cal 2
VX7262-IC7262	X170914.D	03/23/17	00:29	03:05	Initial cal 4
VX7262-IC7262	X170915.D	03/23/17	00:59	03:35	Initial cal 8
VX7262-IC7262	X170916.D	03/23/17	01:29	04:05	Initial cal 20
VX7262-ICC7262	X170917.D	03/23/17	01:59	04:35	Initial cal 50
VX7262-IC7262	X170918.D	03/23/17	02:29	05:05	Initial cal 100
VX7262-IC7262	X170919.D	03/23/17	02:59	05:35	Initial cal 200
VX7262-ICV7262	X170922.D	03/23/17	04:28	07:04	Initial cal verification 50
VX7262-ICV7262	X170923.D	03/23/17	04:59	07:35	Initial cal verification 50

5.6.6
5

Instrument Performance Check (BFB)

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: VX7262-BFB3	Injection Date: 03/23/17
Lab File ID: X170925.D	Injection Time: 09:38
Instrument ID: GCMSX	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	9697	17.9	Pass
75	30.0 - 60.0% of mass 95	25317	46.8	Pass
95	Base peak, 100% relative abundance	54114	100.0	Pass
96	5.0 - 9.0% of mass 95	3618	6.69	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	60426	111.7	Pass
175	5.0 - 9.0% of mass 174	4939	9.13 (8.17) ^a	Pass
176	95.0 - 101.0% of mass 174	59477	109.9 (98.4) ^a	Pass
177	5.0 - 9.0% of mass 176	4035	7.46 (6.78) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VX7262-ICV7262	X170926.D	03/23/17	10:12	00:34	Initial cal verification 50

5.6.7
5

Instrument Performance Check (BFB)

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: VX7265-BFB	Injection Date: 03/24/17
Lab File ID: X170968.D	Injection Time: 12:19
Instrument ID: GCMSX	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	9844	17.8	Pass
75	30.0 - 60.0% of mass 95	25738	46.6	Pass
95	Base peak, 100% relative abundance	55290	100.0	Pass
96	5.0 - 9.0% of mass 95	3594	6.50	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	58965	106.6	Pass
175	5.0 - 9.0% of mass 174	4866	8.80 (8.25) ^a	Pass
176	95.0 - 101.0% of mass 174	57666	104.3 (97.8) ^a	Pass
177	5.0 - 9.0% of mass 176	3553	6.43 (6.16) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VX7265-CC7262	X170969.D	03/24/17	12:48	00:29	Continuing cal 20
VX7265-CC7262	X170970.D	03/24/17	13:22	01:03	Continuing cal 20
VX7265-MB	X170971.D	03/24/17	13:52	01:33	Method Blank
VX7265-BS	X170973.D	03/24/17	14:56	02:37	Blank Spike
VX7265-BS	X170974.D	03/24/17	15:29	03:10	Blank Spike
ZZZZZZ	X170976.D	03/24/17	16:29	04:10	(unrelated sample)
ZZZZZZ	X170977.D	03/24/17	16:59	04:40	(unrelated sample)
ZZZZZZ	X170978.D	03/24/17	17:29	05:10	(unrelated sample)
ZZZZZZ	X170979.D	03/24/17	17:59	05:40	(unrelated sample)
JC39408-1	X170980.D	03/24/17	18:29	06:10	SB-1 (0-2)
JC39408-2	X170981.D	03/24/17	18:58	06:39	SB-1 (4.5-6.5)
JC39408-4	X170982.D	03/24/17	19:28	07:09	SB-2 (2-4)
ZZZZZZ	X170983.D	03/24/17	20:54	08:35	(unrelated sample)
ZZZZZZ	X170984.D	03/24/17	21:24	09:05	(unrelated sample)
JC38866-1	X170985.D	03/24/17	21:53	09:34	(used for QC only; not part of job JC39408)
ZZZZZZ	X170986.D	03/24/17	22:24	10:05	(unrelated sample)
JC39408-4MS	X170989.D	03/25/17	00:00	11:41	Matrix Spike

5.6.8
5

Instrument Performance Check (BFB)

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: VX7266-BFB	Injection Date: 03/25/17
Lab File ID: X171006A.D	Injection Time: 10:08
Instrument ID: GCMSX	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	10653	17.8	Pass
75	30.0 - 60.0% of mass 95	27349	45.8	Pass
95	Base peak, 100% relative abundance	59776	100.0	Pass
96	5.0 - 9.0% of mass 95	3921	6.56	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	65840	110.1	Pass
175	5.0 - 9.0% of mass 174	5510	9.22 (8.37) ^a	Pass
176	95.0 - 101.0% of mass 174	64584	108.0 (98.1) ^a	Pass
177	5.0 - 9.0% of mass 176	4191	7.01 (6.49) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VX7266-CC7262	X171006.D	03/25/17	10:08	00:00	Continuing cal 20
VX7265-MB2	X171007.D	03/25/17	10:45	00:37	Method Blank
JC38866-1DUP	X171008.D	03/25/17	11:30	01:22	Duplicate
VX7266-MB	X171009.D	03/25/17	12:00	01:52	Method Blank
VX7266-BS	X171010.D	03/25/17	12:35	02:27	Blank Spike
JC39242-9	X171012.D	03/25/17	13:34	03:26	(used for QC only; not part of job JC39408)

5.6.9
5

Instrument Performance Check (BFB)

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: VX7267-BFB	Injection Date: 03/27/17
Lab File ID: X171045A.D	Injection Time: 10:37
Instrument ID: GCMSX	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	15.0 - 40.0% of mass 95	9692	18.0	Pass
75	30.0 - 60.0% of mass 95	25549	47.6	Pass
95	Base peak, 100% relative abundance	53725	100.0	Pass
96	5.0 - 9.0% of mass 95	3502	6.52	Pass
173	Less than 2.0% of mass 174	0	0.00 (0.00) ^a	Pass
174	50.0 - 120.0% of mass 95	56410	105.0	Pass
175	5.0 - 9.0% of mass 174	4730	8.80 (8.39) ^a	Pass
176	95.0 - 101.0% of mass 174	55776	103.8 (98.9) ^a	Pass
177	5.0 - 9.0% of mass 176	3564	6.63 (6.39) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VX7267-CC7262	X171045.D	03/27/17	10:37	00:00	Continuing cal 20
VX7267-MB	X171046.D	03/27/17	11:12	00:35	Method Blank
VX7267-BS	X171047.D	03/27/17	11:44	01:07	Blank Spike
JC39408-5	X171050.D	03/27/17	13:13	02:36	SB-3 (4-6)
JC39405-7DUP	X171052.D	03/27/17	14:18	03:41	Duplicate
JC39405-8	X171053.D	03/27/17	14:47	04:10	(used for QC only; not part of job JC39408)
ZZZZZZ	X171054.D	03/27/17	15:17	04:40	(unrelated sample)
ZZZZZZ	X171055.D	03/27/17	15:47	05:10	(unrelated sample)
JC39405-8MS	X171056.D	03/27/17	16:31	05:54	Matrix Spike
JC39405-7	X171058.D	03/27/17	17:30	06:53	(used for QC only; not part of job JC39408)
ZZZZZZ	X171059.D	03/27/17	18:00	07:23	(unrelated sample)
ZZZZZZ	X171060.D	03/27/17	18:30	07:53	(unrelated sample)
ZZZZZZ	X171062.D	03/27/17	19:30	08:53	(unrelated sample)
ZZZZZZ	X171064.D	03/27/17	20:29	09:52	(unrelated sample)
ZZZZZZ	X171066.D	03/27/17	21:29	10:52	(unrelated sample)

5.6.10
5

Volatile Surrogate Recovery Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Method: SW846 8260C

Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JC39408-13	2A177290.D	97	101	100	99
JC39408-14	2A177304.D	95	100	98	100
JC39408-15	2A177291.D	96	100	99	100
JC39408-16	2A177379.D	100	106	100	102
JC39408-17	2A177306.D	95	100	99	101
JC39408-18	2A177307.D	97	101	98	99
JC39408-13MS	2A177302.D	98	101	97	99
JC39408-15DUP	2A177303.D	97	100	98	99
JC39595-1MS	2A177395.D	100	105	98	99
JC39751-2DUP	2A177394.D	101	106	100	101
V2A7505-BS	2A177289.D	97	102	99	97
V2A7505-MB	2A177288.D	95	99	99	99
V2A7509-BS	2A177373.D	100	104	97	100
V2A7509-MB	2A177372.D	99	106	99	100
V2A7509-MB2	2A177393.D	100	105	99	99

Surrogate Compounds

Recovery Limits

S1 = Dibromofluoromethane	76-120%
S2 = 1,2-Dichloroethane-D4	73-122%
S3 = Toluene-D8	84-119%
S4 = 4-Bromofluorobenzene	78-117%

5.7.1

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Volatile Surrogate Recovery Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Method: SW846 8260C

Matrix: SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JC39408-1	X170980.D	102	98	108	129
JC39408-2	X170981.D	100	99	102	104
JC39408-4	X170982.D	100	96	98	103
JC39408-5	X171050.D	102	106	100	106
JC39408-6	X171020.D	104	106	96	110
JC39408-7	X171025.D	106	108	101	105
JC39408-8	X171019.D	107	104	99	103
JC39408-9	X171021.D	107	107	93	104
JC39408-11	X171022.D	106	107	94	108
JC39408-12	X171023.D	87	108	96	107
JC39242-9MS	X171016.D	99	88	103	107
JC39242-9MSD	X171017.D	97	89	99	105
JC39405-7DUP	X171052.D	102	97	100	105
JC39405-8MS	X171056.D	99	85	100	102
JC39408-4MS	X170989.D	105	104	98	104
VX7265-BS	X170973.D	99	100	107	100
VX7265-BS	X170974.D	99	98	101	104
VX7265-MB	X170971.D	99	101	102	99
VX7266-BS	X171010.D	99	96	99	104
VX7266-MB	X171009.D	102	103	98	101
VX7267-BS	X171047.D	104	103	95	102
VX7267-MB	X171046.D	99	98	101	102

Surrogate Compounds

Recovery Limits

S1 = Dibromofluoromethane	70-122%
S2 = 1,2-Dichloroethane-D4	68-124%
S3 = Toluene-D8	77-125%
S4 = 4-Bromofluorobenzene	72-130%

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1380-MB1	Z119942.D	1	03/25/17	CS	03/24/17	OP1380	EZ5957

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39408-13, JC39408-14, JC39408-15, JC39408-16, JC39408-17, JC39408-18

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.82	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	0.89	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	2.4	ug/l	
51-28-5	2,4-Dinitrophenol	ND	10	1.6	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	5.0	1.3	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.89	ug/l	
	3&4-Methylphenol	ND	2.0	0.88	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.96	ug/l	
100-02-7	4-Nitrophenol	ND	10	1.2	ug/l	
87-86-5	Pentachlorophenol	ND	4.0	1.4	ug/l	
108-95-2	Phenol	ND	2.0	0.39	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	1.5	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.3	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.92	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.19	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.14	ug/l	
98-86-2	Acetophenone	ND	2.0	0.21	ug/l	
120-12-7	Anthracene	ND	1.0	0.21	ug/l	
1912-24-9	Atrazine	ND	2.0	0.45	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.29	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.21	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.21	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.34	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.21	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.21	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.24	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.34	ug/l	
86-74-8	Carbazole	ND	1.0	0.23	ug/l	
105-60-2	Caprolactam	ND	2.0	0.65	ug/l	
218-01-9	Chrysene	ND	1.0	0.18	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.28	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.25	ug/l	

Method Blank Summary

Job Number: JC39408

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1380-MB1	Z119942.D	1	03/25/17	CS	03/24/17	OP1380	EZ5957

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39408-13, JC39408-14, JC39408-15, JC39408-16, JC39408-17, JC39408-18

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.40	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.37	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.48	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	0.51	ug/l	
123-91-1	1,4-Dioxane	ND	1.0	0.66	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.33	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.22	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.17	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	1.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.49	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	2.8	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.39	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.33	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.21	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.28	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.39	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.44	ug/l	
91-20-3	Naphthalene	ND	1.0	0.23	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.64	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.48	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.18	ug/l	
129-00-0	Pyrene	ND	1.0	0.22	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.37	ug/l	

Method Blank Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1380-MB1	Z119942.D	1	03/25/17	CS	03/24/17	OP1380	EZ5957

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39408-13, JC39408-14, JC39408-15, JC39408-16, JC39408-17, JC39408-18

CAS No.	Surrogate Recoveries	Limits	
367-12-4	2-Fluorophenol	44%	10-110%
4165-62-2	Phenol-d5	30%	10-110%
118-79-6	2,4,6-Tribromophenol	93%	36-151%
4165-60-0	Nitrobenzene-d5	77%	34-128%
321-60-8	2-Fluorobiphenyl	67%	38-119%
1718-51-0	Terphenyl-d14	72%	26-129%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.01	7.1	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	

6.1.1
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Method Blank Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1361-MB1	6P35854.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39408-1, JC39408-2, JC39408-4, JC39408-5, JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	67	16	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	20	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	28	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	59	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	170	130	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	170	36	ug/kg	
95-48-7	2-Methylphenol	ND	67	21	ug/kg	
	3&4-Methylphenol	ND	67	27	ug/kg	
88-75-5	2-Nitrophenol	ND	170	22	ug/kg	
100-02-7	4-Nitrophenol	ND	330	89	ug/kg	
87-86-5	Pentachlorophenol	ND	130	31	ug/kg	
108-95-2	Phenol	ND	67	17	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	22	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	25	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	20	ug/kg	
83-32-9	Acenaphthene	ND	33	11	ug/kg	
208-96-8	Acenaphthylene	ND	33	17	ug/kg	
98-86-2	Acetophenone	ND	170	7.2	ug/kg	
120-12-7	Anthracene	ND	33	20	ug/kg	
1912-24-9	Atrazine	ND	67	14	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	9.4	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	15	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	15	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	17	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	67	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	67	8.1	ug/kg	
92-52-4	1,1'-Biphenyl	ND	67	4.6	ug/kg	
100-52-7	Benzaldehyde	ND	170	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	67	7.9	ug/kg	
106-47-8	4-Chloroaniline	ND	170	12	ug/kg	
86-74-8	Carbazole	ND	67	4.8	ug/kg	
105-60-2	Caprolactam	ND	67	13	ug/kg	
218-01-9	Chrysene	ND	33	10	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	67	7.1	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	67	14	ug/kg	

Method Blank Summary

Job Number: JC39408

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1361-MB1	6P35854.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39408-1, JC39408-2, JC39408-4, JC39408-5, JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

CAS No.	Compound	Result	RL	MDL	Units	Q
108-60-1	bis(2-Chloroisopropyl)ether	ND	67	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	67	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	33	10	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	33	17	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	67	28	ug/kg	
123-91-1	1,4-Dioxane	ND	33	22	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	15	ug/kg	
132-64-9	Dibenzofuran	ND	67	14	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	67	5.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	67	8.3	ug/kg	
84-66-2	Diethyl phthalate	ND	67	7.1	ug/kg	
131-11-3	Dimethyl phthalate	ND	67	5.9	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	67	7.8	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	15	ug/kg	
118-74-1	Hexachlorobenzene	ND	67	8.4	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	13	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	13	ug/kg	
67-72-1	Hexachloroethane	ND	170	16	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	16	ug/kg	
78-59-1	Isophorone	ND	67	7.1	ug/kg	
91-57-6	2-Methylnaphthalene	ND	67	7.5	ug/kg	
88-74-4	2-Nitroaniline	ND	170	7.9	ug/kg	
99-09-2	3-Nitroaniline	ND	170	8.3	ug/kg	
100-01-6	4-Nitroaniline	ND	170	8.6	ug/kg	
91-20-3	Naphthalene	ND	33	9.4	ug/kg	
98-95-3	Nitrobenzene	ND	67	13	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	67	9.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	12	ug/kg	
85-01-8	Phenanthrene	ND	33	11	ug/kg	
129-00-0	Pyrene	ND	33	11	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	8.5	ug/kg	

Method Blank Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1361-MB1	6P35854.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39408-1, JC39408-2, JC39408-4, JC39408-5, JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

CAS No.	Surrogate Recoveries	Limits	
367-12-4	2-Fluorophenol	96%	23-115%
4165-62-2	Phenol-d5	87%	27-114%
118-79-6	2,4,6-Tribromophenol	82%	19-152%
4165-60-0	Nitrobenzene-d5	89%	26-134%
321-60-8	2-Fluorobiphenyl	84%	39-124%
1718-51-0	Terphenyl-d14	96%	36-134%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1380-BS1	Z119943.D	1	03/25/17	CS	03/24/17	OP1380	EZ5957

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39408-13, JC39408-14, JC39408-15, JC39408-16, JC39408-17, JC39408-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
95-57-8	2-Chlorophenol	50	33.0	66	39-106
59-50-7	4-Chloro-3-methyl phenol	50	44.3	89	45-118
120-83-2	2,4-Dichlorophenol	50	39.4	79	43-115
105-67-9	2,4-Dimethylphenol	50	40.2	80	38-125
51-28-5	2,4-Dinitrophenol	100	93.5	94	35-137
534-52-1	4,6-Dinitro-o-cresol	50	43.7	87	45-134
95-48-7	2-Methylphenol	50	30.4	61	34-106
	3&4-Methylphenol	50	32.0	64	31-110
88-75-5	2-Nitrophenol	50	45.0	90	41-118
100-02-7	4-Nitrophenol	50	32.4	65	10-113
87-86-5	Pentachlorophenol	50	42.8	86	21-134
108-95-2	Phenol	50	18.7	37	10-110
58-90-2	2,3,4,6-Tetrachlorophenol	50	41.2	82	41-129
95-95-4	2,4,5-Trichlorophenol	50	41.2	82	45-117
88-06-2	2,4,6-Trichlorophenol	50	41.8	84	47-125
83-32-9	Acenaphthene	50	39.3	79	40-114
208-96-8	Acenaphthylene	50	38.4	77	40-109
98-86-2	Acetophenone	50	39.8	80	43-112
120-12-7	Anthracene	50	41.1	82	50-113
1912-24-9	Atrazine	50	52.8	106	46-141
100-52-7	Benzaldehyde	50	33.5	67	27-116
56-55-3	Benzo(a)anthracene	50	43.3	87	55-110
50-32-8	Benzo(a)pyrene	50	44.4	89	52-112
205-99-2	Benzo(b)fluoranthene	50	42.5	85	53-114
191-24-2	Benzo(g,h,i)perylene	50	43.0	86	46-115
207-08-9	Benzo(k)fluoranthene	50	40.8	82	55-115
101-55-3	4-Bromophenyl phenyl ether	50	42.4	85	47-122
85-68-7	Butyl benzyl phthalate	50	50.7	101	50-124
92-52-4	1,1'-Biphenyl	50	36.7	73	42-114
91-58-7	2-Chloronaphthalene	50	34.5	69	33-112
106-47-8	4-Chloroaniline	50	24.9	50	17-87
86-74-8	Carbazole	50	42.7	85	54-118
105-60-2	Caprolactam	50	13.3	27	10-110
218-01-9	Chrysene	50	43.2	86	52-107
111-91-1	bis(2-Chloroethoxy)methane	50	40.1	80	38-116
111-44-4	bis(2-Chloroethyl)ether	50	38.8	78	38-118

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC39408

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1380-BS1	Z119943.D	1	03/25/17	CS	03/24/17	OP1380	EZ5957

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39408-13, JC39408-14, JC39408-15, JC39408-16, JC39408-17, JC39408-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	50	34.9	70	29-108
7005-72-3	4-Chlorophenyl phenyl ether	50	39.6	79	40-122
121-14-2	2,4-Dinitrotoluene	50	42.3	85	54-129
606-20-2	2,6-Dinitrotoluene	50	49.5	99	53-131
91-94-1	3,3'-Dichlorobenzidine	100	72.1	72	28-91
123-91-1	1,4-Dioxane	50	17.5	35	10-110
53-70-3	Dibenzo(a,h)anthracene	50	44.2	88	51-117
132-64-9	Dibenzofuran	50	37.0	74	46-118
84-74-2	Di-n-butyl phthalate	50	47.2	94	54-124
117-84-0	Di-n-octyl phthalate	50	44.1	88	41-137
84-66-2	Diethyl phthalate	50	43.2	86	49-122
131-11-3	Dimethyl phthalate	50	41.2	82	51-118
117-81-7	bis(2-Ethylhexyl)phthalate	50	50.0	100	47-128
206-44-0	Fluoranthene	50	43.3	87	54-118
86-73-7	Fluorene	50	38.7	77	45-116
118-74-1	Hexachlorobenzene	50	39.9	80	45-124
87-68-3	Hexachlorobutadiene	50	26.7	53	10-120
77-47-4	Hexachlorocyclopentadiene	100	57.0	57	10-110
67-72-1	Hexachloroethane	50	26.9	54	11-110
193-39-5	Indeno(1,2,3-cd)pyrene	50	43.7	87	45-123
78-59-1	Isophorone	50	39.3	79	43-115
91-57-6	2-Methylnaphthalene	50	36.1	72	37-111
88-74-4	2-Nitroaniline	50	55.9	112	40-144
99-09-2	3-Nitroaniline	50	36.6	73	31-104
100-01-6	4-Nitroaniline	50	49.5	99	48-119
91-20-3	Naphthalene	50	32.3	65	29-110
98-95-3	Nitrobenzene	50	40.5	81	35-118
621-64-7	N-Nitroso-di-n-propylamine	50	40.5	81	38-116
86-30-6	N-Nitrosodiphenylamine	50	41.1	82	49-114
85-01-8	Phenanthrene	50	40.7	81	49-116
129-00-0	Pyrene	50	45.1	90	51-116
95-94-3	1,2,4,5-Tetrachlorobenzene	50	35.2	70	21-124

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC39408

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1380-BS1	Z119943.D	1	03/25/17	CS	03/24/17	OP1380	EZ5957

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39408-13, JC39408-14, JC39408-15, JC39408-16, JC39408-17, JC39408-18

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	57%	10-110%
4165-62-2	Phenol-d5	39%	10-110%
118-79-6	2,4,6-Tribromophenol	112%	36-151%
4165-60-0	Nitrobenzene-d5	93%	34-128%
321-60-8	2-Fluorobiphenyl	77%	38-119%
1718-51-0	Terphenyl-d14	90%	26-129%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1361-BS1	6P35855.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39408-1, JC39408-2, JC39408-4, JC39408-5, JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
95-57-8	2-Chlorophenol	1670	1210	73	44-122
59-50-7	4-Chloro-3-methyl phenol	1670	1460	88	50-123
120-83-2	2,4-Dichlorophenol	1670	1370	82	48-122
105-67-9	2,4-Dimethylphenol	1670	1390	83	48-124
51-28-5	2,4-Dinitrophenol	3330	2520	76	34-146
534-52-1	4,6-Dinitro-o-cresol	1670	1250	75	49-140
95-48-7	2-Methylphenol	1670	1320	79	40-126
	3&4-Methylphenol	1670	1300	78	40-127
88-75-5	2-Nitrophenol	1670	1280	77	44-133
100-02-7	4-Nitrophenol	1670	1300	78	35-153
87-86-5	Pentachlorophenol	1670	1230	74	15-149
108-95-2	Phenol	1670	1380	83	50-109
58-90-2	2,3,4,6-Tetrachlorophenol	1670	1300	78	44-132
95-95-4	2,4,5-Trichlorophenol	1670	1440	86	45-124
88-06-2	2,4,6-Trichlorophenol	1670	1450	87	57-122
83-32-9	Acenaphthene	1670	1280	77	53-119
208-96-8	Acenaphthylene	1670	1310	79	41-125
98-86-2	Acetophenone	1670	1310	79	52-112
120-12-7	Anthracene	1670	1390	83	51-120
1912-24-9	Atrazine	1670	1610	97	49-139
56-55-3	Benzo(a)anthracene	1670	1330	80	54-118
50-32-8	Benzo(a)pyrene	1670	1380	83	55-121
205-99-2	Benzo(b)fluoranthene	1670	1290	77	57-116
191-24-2	Benzo(g,h,i)perylene	1670	1330	80	40-124
207-08-9	Benzo(k)fluoranthene	1670	1320	79	59-116
101-55-3	4-Bromophenyl phenyl ether	1670	1420	85	60-122
85-68-7	Butyl benzyl phthalate	1670	1290	77	51-134
92-52-4	1,1'-Biphenyl	1670	1210	73	46-122
100-52-7	Benzaldehyde	1670	1070	64	14-139
91-58-7	2-Chloronaphthalene	1670	1210	73	49-120
106-47-8	4-Chloroaniline	1670	1090	65	10-115
86-74-8	Carbazole	1670	1400	84	52-124
105-60-2	Caprolactam	1670	1360	82	16-139
218-01-9	Chrysene	1670	1300	78	51-115
111-91-1	bis(2-Chloroethoxy)methane	1670	1300	78	36-131
111-44-4	bis(2-Chloroethyl)ether	1670	1100	66	41-131

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC39408

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1361-BS1	6P35855.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39408-1, JC39408-2, JC39408-4, JC39408-5, JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-60-1	bis(2-Chloroisopropyl)ether	1670	1210	73	22-134
7005-72-3	4-Chlorophenyl phenyl ether	1670	1340	80	56-118
121-14-2	2,4-Dinitrotoluene	1670	1230	74	57-131
606-20-2	2,6-Dinitrotoluene	1670	1230	74	57-132
91-94-1	3,3'-Dichlorobenzidine	3330	2660	80	10-129
123-91-1	1,4-Dioxane	1670	847	51	10-110
53-70-3	Dibenzo(a,h)anthracene	1670	1330	80	48-121
132-64-9	Dibenzofuran	1670	1250	75	51-119
84-74-2	Di-n-butyl phthalate	1670	1280	77	59-125
117-84-0	Di-n-octyl phthalate	1670	1320	79	47-147
84-66-2	Diethyl phthalate	1670	1390	83	57-116
131-11-3	Dimethyl phthalate	1670	1360	82	56-116
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1300	78	53-133
206-44-0	Fluoranthene	1670	1350	81	58-117
86-73-7	Fluorene	1670	1320	79	56-114
118-74-1	Hexachlorobenzene	1670	1290	77	50-128
87-68-3	Hexachlorobutadiene	1670	1260	76	43-129
77-47-4	Hexachlorocyclopentadiene	3330	2660	80	15-140
67-72-1	Hexachloroethane	1670	1240	74	43-123
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1330	80	49-124
78-59-1	Isophorone	1670	1340	80	38-128
91-57-6	2-Methylnaphthalene	1670	1250	75	37-124
88-74-4	2-Nitroaniline	1670	1510	91	45-144
99-09-2	3-Nitroaniline	1670	1180	71	10-134
100-01-6	4-Nitroaniline	1670	1330	80	41-130
91-20-3	Naphthalene	1670	1240	74	44-116
98-95-3	Nitrobenzene	1670	1260	76	36-132
621-64-7	N-Nitroso-di-n-propylamine	1670	1290	77	38-125
86-30-6	N-Nitrosodiphenylamine	1670	1330	80	51-122
85-01-8	Phenanthrene	1670	1290	77	53-119
129-00-0	Pyrene	1670	1330	80	54-124
95-94-3	1,2,4,5-Tetrachlorobenzene	1670	1590	95	45-128

* = Outside of Control Limits.

Blank Spike Summary

Job Number: JC39408

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1361-BS1	6P35855.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39408-1, JC39408-2, JC39408-4, JC39408-5, JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	92%	23-115%
4165-62-2	Phenol-d5	88%	27-114%
118-79-6	2,4,6-Tribromophenol	96%	19-152%
4165-60-0	Nitrobenzene-d5	86%	26-134%
321-60-8	2-Fluorobiphenyl	83%	39-124%
1718-51-0	Terphenyl-d14	91%	36-134%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1380-MS	Z119954.D	1	03/27/17	AC	03/24/17	OP1380	EZ5958
OP1380-MSD	Z119955.D	1	03/27/17	AC	03/24/17	OP1380	EZ5958
JC39303-9	Z119956.D	1	03/27/17	AC	03/24/17	OP1380	EZ5958

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39408-13, JC39408-14, JC39408-15, JC39408-16, JC39408-17, JC39408-18

CAS No.	Compound	JC39303-9		MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD	
		ug/l	Q								
95-57-8	2-Chlorophenol	ND		100	70.7	71	100	67.5	68	5	36-113/33
59-50-7	4-Chloro-3-methyl phenol	ND		100	624	624* a	100	591	591* a	5	40-126/29
120-83-2	2,4-Dichlorophenol	ND		100	84.3	84	100	83.0	83	2	40-119/30
105-67-9	2,4-Dimethylphenol	ND		100	87.9	88	100	83.1	83	6	34-134/30
51-28-5	2,4-Dinitrophenol	ND		200	172	86	200	180	90	5	22-157/34
534-52-1	4,6-Dinitro-o-cresol	ND		100	85.6	86	100	88.3	88	3	26-151/37
95-48-7	2-Methylphenol	ND		100	62.3	62	100	55.5	56	12	31-119/32
	3&4-Methylphenol	ND		100	64.7	65	100	57.9	58	11	29-118/31
88-75-5	2-Nitrophenol	ND		100	96.7	97	100	97.8	98	1	38-123/34
100-02-7	4-Nitrophenol	ND		100	65.5	66	100	57.5	58	13	10-161/36
87-86-5	Pentachlorophenol	ND		100	87.4	87	100	91.3	91	4	22-149/36
108-95-2	Phenol	ND		100	38.3	38	100	32.0	32	18	10-110/35
58-90-2	2,3,4,6-Tetrachlorophenol	ND		100	86.6	87	100	86.1	86	1	43-131/36
95-95-4	2,4,5-Trichlorophenol	ND		100	75.2	75	100	74.1	74	1	45-118/30
88-06-2	2,4,6-Trichlorophenol	ND		100	88.4	88	100	88.3	88	0	48-126/31
83-32-9	Acenaphthene	ND		100	80.4	80	100	80.1	80	0	44-119/28
208-96-8	Acenaphthylene	ND		100	79.2	79	100	78.9	79	0	40-115/28
98-86-2	Acetophenone	ND		100	83.1	83	100	84.4	84	2	34-127/32
120-12-7	Anthracene	ND		100	83.6	84	100	83.2	83	0	44-120/30
1912-24-9	Atrazine	ND		100	111	111	100	112	112	1	31-149/30
100-52-7	Benzaldehyde	ND		100	65.9	66	100	71.5	72	8	11-132/37
56-55-3	Benzo(a)anthracene	ND		100	82.6	83	100	79.4	79	4	48-116/30
50-32-8	Benzo(a)pyrene	ND		100	81.5	82	100	77.0	77	6	43-120/31
205-99-2	Benzo(b)fluoranthene	ND		100	76.2	76	100	74.0	74	3	42-123/31
191-24-2	Benzo(g,h,i)perylene	ND		100	73.4	73	100	65.1	65	12	39-121/32
207-08-9	Benzo(k)fluoranthene	ND		100	76.6	77	100	72.5	73	5	44-123/31
101-55-3	4-Bromophenyl phenyl ether	ND		100	90.9	91	100	90.2	90	1	47-127/31
85-68-7	Butyl benzyl phthalate	ND		100	94.6	95	100	94.2	94	0	41-135/32
92-52-4	1,1'-Biphenyl	ND		100	76.5	77	100	75.7	76	1	39-124/29
91-58-7	2-Chloronaphthalene	ND		100	73.7	74	100	73.3	73	1	37-120/30
106-47-8	4-Chloroaniline	ND		100	34.5	35	100	29.2	29	17	10-110/49
86-74-8	Carbazole	ND		100	84.4	84	100	85.0	85	1	46-127/29
105-60-2	Caprolactam	ND		100	24.5	25	100	21.8	22	12	10-110/37
218-01-9	Chrysene	ND		100	83.0	83	100	79.6	80	4	45-113/30
111-91-1	bis(2-Chloroethoxy)methane	ND		100	81.0	81	100	82.7	83	2	33-122/29
111-44-4	bis(2-Chloroethyl)ether	1.2	J	100	83.3	82	100	85.3	84	2	29-132/36

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1380-MS	Z119954.D	1	03/27/17	AC	03/24/17	OP1380	EZ5958
OP1380-MSD	Z119955.D	1	03/27/17	AC	03/24/17	OP1380	EZ5958
JC39303-9	Z119956.D	1	03/27/17	AC	03/24/17	OP1380	EZ5958

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39408-13, JC39408-14, JC39408-15, JC39408-16, JC39408-17, JC39408-18

CAS No.	Compound	JC39303-9		MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
		ug/l	Q							
108-60-1	bis(2-Chloroisopropyl)ether	6.1	100	75.9	73	100	79.8	77	5	27-115/34
7005-72-3	4-Chlorophenyl phenyl ether	ND	100	83.6	84	100	83.9	84	0	43-125/30
121-14-2	2,4-Dinitrotoluene	ND	100	84.1	84	100	84.1	84	0	49-135/31
606-20-2	2,6-Dinitrotoluene	ND	100	104	104	100	104	104	0	50-135/32
91-94-1	3,3'-Dichlorobenzidine	ND	200	143	72	200	135	68	6	2-115/43
123-91-1	1,4-Dioxane	ND	100	47.2	47	100	43.4	43	8	10-110/42
53-70-3	Dibenzo(a,h)anthracene	ND	100	78.4	78	100	72.4	72	8	44-121/32
132-64-9	Dibenzofuran	ND	100	78.0	78	100	78.2	78	0	43-123/29
84-74-2	Di-n-butyl phthalate	ND	100	93.2	93	100	92.4	92	1	46-133/30
117-84-0	Di-n-octyl phthalate	ND	100	75.8	76	100	72.4	72	5	31-147/32
84-66-2	Diethyl phthalate	ND	100	86.7	87	100	87.4	87	1	46-126/30
131-11-3	Dimethyl phthalate	ND	100	82.9	83	100	82.9	83	0	49-120/29
117-81-7	bis(2-Ethylhexyl)phthalate	ND	100	94.1	94	100	90.3	90	4	35-140/35
206-44-0	Fluoranthene	ND	100	85.0	85	100	83.4	83	2	48-122/30
86-73-7	Fluorene	ND	100	78.2	78	100	78.7	79	1	45-121/30
118-74-1	Hexachlorobenzene	ND	100	82.9	83	100	81.0	81	2	42-129/32
87-68-3	Hexachlorobutadiene	ND	100	66.1	66	100	68.4	68	3	10-129/36
77-47-4	Hexachlorocyclopentadiene	ND	200	120	60	200	127	64	6	10-111/40
67-72-1	Hexachloroethane	ND	100	60.9	61	100	66.0	66	8	12-116/37
193-39-5	Indeno(1,2,3-cd)pyrene	ND	100	76.5	77	100	70.3	70	8	39-129/33
78-59-1	Isophorone	ND	100	83.4	83	100	82.3	82	1	37-122/29
91-57-6	2-Methylnaphthalene	ND	100	73.6	74	100	74.2	74	1	33-118/31
88-74-4	2-Nitroaniline	ND	100	115	115	100	117	117	2	32-156/31
99-09-2	3-Nitroaniline	ND	100	67.9	68	100	60.9	61	11	11-114/41
100-01-6	4-Nitroaniline	ND	100	93.0	93	100	91.5	92	2	31-125/30
91-20-3	Naphthalene	ND	100	69.6	70	100	68.5	69	2	24-119/33
98-95-3	Nitrobenzene	ND	100	88.2	88	100	89.5	90	1	28-130/32
621-64-7	N-Nitroso-di-n-propylamine	ND	100	85.6	86	100	85.1	85	1	29-128/31
86-30-6	N-Nitrosodiphenylamine	ND	100	74.5	75	100	74.0	74	1	40-128/31
85-01-8	Phenanthrene	ND	100	83.2	83	100	81.5	82	2	41-128/30
129-00-0	Pyrene	ND	100	88.9	89	100	86.6	87	3	47-122/30
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	100	77.7	78	100	76.4	76	2	23-134/31

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC39408

Account: EBIMAB EBI Consulting

Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1380-MS	Z119954.D	1	03/27/17	AC	03/24/17	OP1380	EZ5958
OP1380-MSD	Z119955.D	1	03/27/17	AC	03/24/17	OP1380	EZ5958
JC39303-9	Z119956.D	1	03/27/17	AC	03/24/17	OP1380	EZ5958

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39408-13, JC39408-14, JC39408-15, JC39408-16, JC39408-17, JC39408-18

CAS No.	Surrogate Recoveries	MS	MSD	JC39303-9	Limits
367-12-4	2-Fluorophenol	59%	51%	43%	10-110%
4165-62-2	Phenol-d5	41%	35%	31%	10-110%
118-79-6	2,4,6-Tribromophenol	116%	118%	119%	36-151%
4165-60-0	Nitrobenzene-d5	99%	101%	98%	34-128%
321-60-8	2-Fluorobiphenyl	79%	80%	88%	38-119%
1718-51-0	Terphenyl-d14	73%	67%	68%	26-129%

(a) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1361-MS	6P35856.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658
OP1361-MSD	6P35857.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658
JC39101-1	6P35858.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39408-1, JC39408-2, JC39408-4, JC39408-5, JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

CAS No.	Compound	JC39101-1 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	ND		1760	1050	60	1800	1030	2	10-137/34
59-50-7	4-Chloro-3-methyl phenol	ND		1760	1430	81	1800	1390	3	11-147/35
120-83-2	2,4-Dichlorophenol	ND		1760	1320	75	1800	1290	2	15-140/34
105-67-9	2,4-Dimethylphenol	ND		1760	1320	75	1800	1240	6	10-151/34
51-28-5	2,4-Dinitrophenol	ND		3520	2310	66	3600	2280	1	10-148/49
534-52-1	4,6-Dinitro-o-cresol	ND		1760	1260	72	1800	1200	5	10-150/48
95-48-7	2-Methylphenol	ND		1760	1200	68	1800	1190	1	10-138/33
	3&4-Methylphenol	ND		1760	1190	68	1800	1200	1	10-143/33
88-75-5	2-Nitrophenol	ND		1760	1180	67	1800	1120	5	10-150/39
100-02-7	4-Nitrophenol	ND		1760	1290	73	1800	1280	1	10-163/38
87-86-5	Pentachlorophenol	ND		1760	1270	72	1800	1250	2	10-148/39
108-95-2	Phenol	ND		1760	1250	71	1800	1200	4	24-114/32
58-90-2	2,3,4,6-Tetrachlorophenol	ND		1760	1290	73	1800	1280	1	14-140/38
95-95-4	2,4,5-Trichlorophenol	ND		1760	1460	83	1800	1450	1	10-146/36
88-06-2	2,4,6-Trichlorophenol	ND		1760	1460	83	1800	1420	3	16-148/36
83-32-9	Acenaphthene	ND		1760	1310	74	1800	1280	2	21-136/34
208-96-8	Acenaphthylene	ND		1760	1360	77	1800	1320	3	10-143/36
98-86-2	Acetophenone	ND		1760	1160	66	1800	1120	4	24-127/31
120-12-7	Anthracene	ND		1760	1450	82	1800	1370	6	10-147/39
1912-24-9	Atrazine	ND		1760	1590	90	1800	1570	1	10-161/38
56-55-3	Benzo(a)anthracene	19.6	J	1760	1420	80	1800	1380	3	10-151/41
50-32-8	Benzo(a)pyrene	18.4	J	1760	1440	81	1800	1390	4	10-149/40
205-99-2	Benzo(b)fluoranthene	25.5	J	1760	1350	75	1800	1260	7	10-147/42
191-24-2	Benzo(g,h,i)perylene	ND		1760	1380	78	1800	1340	3	10-150/41
207-08-9	Benzo(k)fluoranthene	ND		1760	1340	76	1800	1400	4	12-142/41
101-55-3	4-Bromophenyl phenyl ether	ND		1760	1450	82	1800	1390	4	26-138/37
85-68-7	Butyl benzyl phthalate	ND		1760	1400	79	1800	1360	3	24-143/36
92-52-4	1,1'-Biphenyl	ND		1760	1220	69	1800	1180	3	18-138/32
100-52-7	Benzaldehyde	ND		1760	985	56	1800	942	4	10-149/37
91-58-7	2-Chloronaphthalene	ND		1760	1240	70	1800	1190	4	24-130/31
106-47-8	4-Chloroaniline	ND		1760	926	53	1800	945	2	10-111/52
86-74-8	Carbazole	ND		1760	1360	77	1800	1350	1	12-146/39
105-60-2	Caprolactam	ND		1760	1260	72	1800	1250	1	10-147/40
218-01-9	Chrysene	23.9	J	1760	1390	78	1800	1360	2	10-151/41
111-91-1	bis(2-Chloroethoxy)methane	ND		1760	1260	72	1800	1180	7	10-144/35
111-44-4	bis(2-Chloroethyl)ether	ND		1760	1120	64	1800	908	21	12-142/35

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1361-MS	6P35856.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658
OP1361-MSD	6P35857.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658
JC39101-1	6P35858.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39408-1, JC39408-2, JC39408-4, JC39408-5, JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

CAS No.	Compound	JC39101-1 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD	
108-60-1	bis(2-Chloroisopropyl)ether	ND		1760	1090	62	1800	1060	59	3	10-137/33
7005-72-3	4-Chlorophenyl phenyl ether	ND		1760	1360	77	1800	1330	74	2	21-136/35
121-14-2	2,4-Dinitrotoluene	ND		1760	1280	73	1800	1270	71	1	14-148/41
606-20-2	2,6-Dinitrotoluene	ND		1760	1260	72	1800	1210	67	4	14-152/40
91-94-1	3,3'-Dichlorobenzidine	ND		3520	2560	73	3600	2440	68	5	10-137/47
123-91-1	1,4-Dioxane	ND		1760	737	42	1800	734	41	0	10-110/40
53-70-3	Dibenzo(a,h)anthracene	ND		1760	1370	78	1800	1310	73	4	10-152/38
132-64-9	Dibenzofuran	ND		1760	1260	72	1800	1250	69	1	17-141/36
84-74-2	Di-n-butyl phthalate	65.3	J	1760	1330	72	1800	1290	68	3	26-137/35
117-84-0	Di-n-octyl phthalate	ND		1760	1400	79	1800	1390	77	1	23-145/36
84-66-2	Diethyl phthalate	ND		1760	1440	82	1800	1410	78	2	25-133/35
131-11-3	Dimethyl phthalate	ND		1760	1410	80	1800	1370	76	3	21-134/36
117-81-7	bis(2-Ethylhexyl)phthalate	ND		1760	1400	79	1800	1370	76	2	26-144/39
206-44-0	Fluoranthene	29.5	J	1760	1440	80	1800	1390	76	4	10-151/44
86-73-7	Fluorene	ND		1760	1350	77	1800	1310	73	3	19-133/36
118-74-1	Hexachlorobenzene	ND		1760	1350	77	1800	1280	71	5	18-142/37
87-68-3	Hexachlorobutadiene	ND		1760	1150	65	1800	1050	58	9	16-137/32
77-47-4	Hexachlorocyclopentadiene	ND		3520	2500	71	3600	2400	67	4	10-150/50
67-72-1	Hexachloroethane	ND		1760	1110	63	1800	1050	58	6	10-131/38
193-39-5	Indeno(1,2,3-cd)pyrene	ND		1760	1380	78	1800	1330	74	4	10-148/41
78-59-1	Isophorone	ND		1760	1300	74	1800	1240	69	5	11-142/33
91-57-6	2-Methylnaphthalene	ND		1760	1180	67	1800	1150	64	3	10-141/35
88-74-4	2-Nitroaniline	ND		1760	1440	82	1800	1470	82	2	14-156/38
99-09-2	3-Nitroaniline	ND		1760	1150	65	1800	1220	68	6	10-144/45
100-01-6	4-Nitroaniline	ND		1760	1230	70	1800	1290	72	5	10-156/44
91-20-3	Naphthalene	ND		1760	1140	65	1800	1090	61	4	10-136/36
98-95-3	Nitrobenzene	ND		1760	1200	68	1800	1100	61	9	10-142/34
621-64-7	N-Nitroso-di-n-propylamine	ND		1760	1190	68	1800	1150	64	3	10-142/31
86-30-6	N-Nitrosodiphenylamine	ND		1760	1390	79	1800	1330	74	4	10-156/37
85-01-8	Phenanthrene	16.4	J	1760	1360	76	1800	1280	70	6	11-145/45
129-00-0	Pyrene	26.3	J	1760	1450	81	1800	1390	76	4	11-155/44
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		1760	1580	90	1800	1460	81	8	23-136/32

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1361-MS	6P35856.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658
OP1361-MSD	6P35857.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658
JC39101-1	6P35858.D	1	03/27/17	AC	03/24/17	OP1361	E6P1658

The QC reported here applies to the following samples:

Method: SW846 8270D

JC39408-1, JC39408-2, JC39408-4, JC39408-5, JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

CAS No.	Surrogate Recoveries	MS	MSD	JC39101-1	Limits
367-12-4	2-Fluorophenol	76%	70%	89%	23-115%
4165-62-2	Phenol-d5	76%	72%	81%	27-114%
118-79-6	2,4,6-Tribromophenol	94%	87%	86%	19-152%
4165-60-0	Nitrobenzene-d5	75%	68%	84%	26-134%
321-60-8	2-Fluorobiphenyl	81%	73%	81%	39-124%
1718-51-0	Terphenyl-d14	91%	84%	94%	36-134%

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: E6P1656-DFTPP	Injection Date: 03/24/17
Lab File ID: 6P35813.D	Injection Time: 07:23
Instrument ID: GCMS6P	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	84717	52.7	Pass
68	Less than 2.0% of mass 69	1114	0.69 (1.22) ^a	Pass
69	Mass 69 relative abundance	91042	56.6	Pass
70	Less than 2.0% of mass 69	662	0.41 (0.73) ^a	Pass
127	40.0 - 60.0% of mass 198	94490	58.7	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	160864	100.0	Pass
199	5.0 - 9.0% of mass 198	10818	6.72	Pass
275	10.0 - 30.0% of mass 198	44109	27.4	Pass
365	1.0 - 100.0% of mass 198	6838	4.25	Pass
441	Present, but less than mass 443	15342	9.54 (82.3) ^b	Pass
442	40.0 - 100.0% of mass 198	101682	63.2	Pass
443	17.0 - 23.0% of mass 442	18651	11.6 (18.3) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P1656-IC1656	6P35814.D	03/24/17	07:39	00:16	Initial cal 100
E6P1656-IC1656	6P35815.D	03/24/17	08:09	00:46	Initial cal 1
E6P1656-IC1656	6P35816.D	03/24/17	08:34	01:11	Initial cal 2
E6P1656-IC1656	6P35817.D	03/24/17	08:56	01:33	Initial cal 5
E6P1656-IC1656	6P35818.D	03/24/17	09:19	01:56	Initial cal 10
E6P1656-IC1656	6P35819.D	03/24/17	09:42	02:19	Initial cal 25
E6P1656-ICC1656	6P35820.D	03/24/17	10:05	02:42	Initial cal 50
E6P1656-IC1656	6P35821.D	03/24/17	10:28	03:05	Initial cal 80
E6P1656-ICV1656	6P35822.D	03/24/17	10:51	03:28	Initial cal verification 50
E6P1656-ICV1656	6P35823.D	03/24/17	11:14	03:51	Initial cal verification 50
E6P1656-ICV1656	6P35824.D	03/24/17	11:37	04:14	Initial cal verification 50
E6P1656-ICV1656	6P35825.D	03/24/17	12:00	04:37	Initial cal verification 50
E6P1656-ICV1656	6P35827.D	03/24/17	12:23	05:00	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: E6P1657-DFTPP	Injection Date: 03/24/17
Lab File ID: 6P35831.D	Injection Time: 13:11
Instrument ID: GCMS6P	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	97679	49.5	Pass
68	Less than 2.0% of mass 69	1111	0.56 (1.04) ^a	Pass
69	Mass 69 relative abundance	107130	54.3	Pass
70	Less than 2.0% of mass 69	587	0.30 (0.55) ^a	Pass
127	40.0 - 60.0% of mass 198	114024	57.8	Pass
197	Less than 1.0% of mass 198	254	0.13	Pass
198	Base peak, 100% relative abundance	197285	100.0	Pass
199	5.0 - 9.0% of mass 198	13590	6.89	Pass
275	10.0 - 30.0% of mass 198	54613	27.7	Pass
365	1.0 - 100.0% of mass 198	8820	4.47	Pass
441	Present, but less than mass 443	20271	10.3 (78.0) ^b	Pass
442	40.0 - 100.0% of mass 198	132258	67.0	Pass
443	17.0 - 23.0% of mass 442	26000	13.2 (19.7) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P1657-IC1657	6P35832.D	03/24/17	13:22	00:11	Initial cal 100
E6P1657-IC1657	6P35833.D	03/24/17	13:46	00:35	Initial cal 80
E6P1657-ICC1657	6P35834.D	03/24/17	14:09	00:58	Initial cal 50
E6P1657-IC1657	6P35835.D	03/24/17	14:32	01:21	Initial cal 25
E6P1657-IC1657	6P35836.D	03/24/17	14:55	01:44	Initial cal 10
E6P1657-IC1657	6P35837.D	03/24/17	15:18	02:07	Initial cal 5
E6P1657-IC1657	6P35838.D	03/24/17	15:41	02:30	Initial cal 2
E6P1657-IC1657	6P35839.D	03/24/17	16:05	02:54	Initial cal 1
E6P1657-ICV1657	6P35840.D	03/24/17	16:28	03:17	Initial cal verification 50
E6P1657-ICV1657	6P35841.D	03/24/17	16:51	03:40	Initial cal verification 50
E6P1657-ICV1657	6P35842.D	03/24/17	17:15	04:04	Initial cal verification 50
E6P1657-ICV1657	6P35843.D	03/24/17	17:38	04:27	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: E6P1658-DFTPP	Injection Date: 03/27/17
Lab File ID: 6P35851.D	Injection Time: 10:14
Instrument ID: GCMS6P	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	78352	52.8	Pass
68	Less than 2.0% of mass 69	1440	0.97 (1.75) ^a	Pass
69	Mass 69 relative abundance	82502	55.6	Pass
70	Less than 2.0% of mass 69	178	0.12 (0.22) ^a	Pass
127	40.0 - 60.0% of mass 198	87856	59.2	Pass
197	Less than 1.0% of mass 198	750	0.51	Pass
198	Base peak, 100% relative abundance	148290	100.0	Pass
199	5.0 - 9.0% of mass 198	9918	6.69	Pass
275	10.0 - 30.0% of mass 198	40840	27.5	Pass
365	1.0 - 100.0% of mass 198	6342	4.28	Pass
441	Present, but less than mass 443	14934	10.1 (76.5) ^b	Pass
442	40.0 - 100.0% of mass 198	98573	66.5	Pass
443	17.0 - 23.0% of mass 442	19521	13.2 (19.8) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P1658-CC1656	6P35852A.D	03/27/17	11:14	01:00	Continuing cal 50
E6P1658-CC1657	6P35853.D	03/27/17	11:37	01:23	Continuing cal 50
OP1361-MB1	6P35854.D	03/27/17	12:00	01:46	Method Blank
OP1361-BS1	6P35855.D	03/27/17	12:24	02:10	Blank Spike
OP1361-MS	6P35856.D	03/27/17	12:47	02:33	Matrix Spike
OP1361-MSD	6P35857.D	03/27/17	13:10	02:56	Matrix Spike Duplicate
JC39101-1	6P35858.D	03/27/17	13:33	03:19	(used for QC only; not part of job JC39408)
ZZZZZZ	6P35859.D	03/27/17	13:57	03:43	(unrelated sample)
ZZZZZZ	6P35860.D	03/27/17	14:20	04:06	(unrelated sample)
ZZZZZZ	6P35861.D	03/27/17	14:43	04:29	(unrelated sample)
ZZZZZZ	6P35862.D	03/27/17	15:07	04:53	(unrelated sample)
ZZZZZZ	6P35863.D	03/27/17	15:30	05:16	(unrelated sample)
JC39408-1	6P35864.D	03/27/17	15:54	05:40	SB-1 (0-2)
JC39408-2	6P35865.D	03/27/17	16:17	06:03	SB-1 (4.5-6.5)
JC39408-4	6P35867.D	03/27/17	16:41	06:27	SB-2 (2-4)
JC39408-5	6P35868.D	03/27/17	17:04	06:50	SB-3 (4-6)
JC39408-6	6P35869.D	03/27/17	17:28	07:14	SB-4 (2-4)
JC39408-7	6P35870.D	03/27/17	17:51	07:37	SB-5 (2.5-4.5)
JC39408-8	6P35871.D	03/27/17	18:15	08:01	SB-6 (5-7)

6.4.3
6

Instrument Performance Check (DFTPP)

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: E6P1658-DFTPP	Injection Date: 03/27/17
Lab File ID: 6P35851.D	Injection Time: 10:14
Instrument ID: GCMS6P	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JC39408-9	6P35872.D	03/27/17	18:38	08:24	SB-7 (5-8)
JC39408-11	6P35874.D	03/27/17	19:25	09:11	SB-8 (5-7)
JC39408-12	6P35875.D	03/27/17	19:49	09:35	SB-9 (2-4)
ZZZZZZ	6P35877.D	03/27/17	20:36	10:22	(unrelated sample)

6.4.3
6

Instrument Performance Check (DFTPP)

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: E6P1659-DFTPP	Injection Date: 03/28/17
Lab File ID: 6P35888.D	Injection Time: 00:25
Instrument ID: GCMS6P	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	86441	54.6	Pass
68	Less than 2.0% of mass 69	909	0.57 (0.99) ^a	Pass
69	Mass 69 relative abundance	91921	58.1	Pass
70	Less than 2.0% of mass 69	387	0.24 (0.42) ^a	Pass
127	40.0 - 60.0% of mass 198	93901	59.3	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	158312	100.0	Pass
199	5.0 - 9.0% of mass 198	9813	6.20	Pass
275	10.0 - 30.0% of mass 198	42232	26.7	Pass
365	1.0 - 100.0% of mass 198	6866	4.34	Pass
441	Present, but less than mass 443	14618	9.23 (81.3) ^b	Pass
442	40.0 - 100.0% of mass 198	97325	61.5	Pass
443	17.0 - 23.0% of mass 442	17983	11.4 (18.5) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E6P1659-CC1656	6P35889.D	03/28/17	00:47	00:22	Continuing cal 25
E6P1659-CC1657	6P35890.D	03/28/17	01:11	00:46	Continuing cal 25
OP1438-MB1	6P35891.D	03/28/17	01:36	01:11	Method Blank
OP1438-BS1	6P35892.D	03/28/17	01:59	01:34	Blank Spike
OP1438-MS	6P35893.D	03/28/17	02:22	01:57	Matrix Spike
OP1438-MSD	6P35894.D	03/28/17	02:45	02:20	Matrix Spike Duplicate
JC39596-1	6P35895.D	03/28/17	03:08	02:43	(used for QC only; not part of job JC39408)
ZZZZZZ	6P35896.D	03/28/17	03:32	03:07	(unrelated sample)
ZZZZZZ	6P35897.D	03/28/17	03:55	03:30	(unrelated sample)
ZZZZZZ	6P35898.D	03/28/17	04:18	03:53	(unrelated sample)
ZZZZZZ	6P35899.D	03/28/17	04:41	04:16	(unrelated sample)
ZZZZZZ	6P35900.D	03/28/17	05:04	04:39	(unrelated sample)
ZZZZZZ	6P35901.D	03/28/17	05:27	05:02	(unrelated sample)
ZZZZZZ	6P35902.D	03/28/17	05:50	05:25	(unrelated sample)
ZZZZZZ	6P35903.D	03/28/17	06:13	05:48	(unrelated sample)
ZZZZZZ	6P35904.D	03/28/17	06:36	06:11	(unrelated sample)
ZZZZZZ	6P35905.D	03/28/17	06:59	06:34	(unrelated sample)
ZZZZZZ	6P35906.D	03/28/17	07:22	06:57	(unrelated sample)
ZZZZZZ	6P35907.D	03/28/17	07:45	07:20	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: E6P1659-DFTPP	Injection Date: 03/28/17
Lab File ID: 6P35888.D	Injection Time: 00:25
Instrument ID: GCMS6P	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	6P35908.D	03/28/17	08:08	07:43	(unrelated sample)
ZZZZZZ	6P35909.D	03/28/17	08:31	08:06	(unrelated sample)
ZZZZZZ	6P35910.D	03/28/17	08:54	08:29	(unrelated sample)
ZZZZZZ	6P35911.D	03/28/17	09:17	08:52	(unrelated sample)
ZZZZZZ	6P35912.D	03/28/17	09:40	09:15	(unrelated sample)
ZZZZZZ	6P35913.D	03/28/17	10:03	09:38	(unrelated sample)
ZZZZZZ	6P35914.D	03/28/17	10:26	10:01	(unrelated sample)
JC39408-5	6P35915A.D	03/28/17	11:04	10:39	SB-3 (4-6)
JC39408-6	6P35916.D	03/28/17	11:27	11:02	SB-4 (2-4)
ZZZZZZ	6P35917.D	03/28/17	11:50	11:25	(unrelated sample)
ZZZZZZ	6P35921.D	03/28/17	12:13	11:48	(unrelated sample)

6.4.4
6

Instrument Performance Check (DFTPP)

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: EZ5949-DFTPP	Injection Date: 03/20/17
Lab File ID: Z119711A.D	Injection Time: 21:05
Instrument ID: GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	108866	40.3	Pass
68	Less than 2.0% of mass 69	837	0.31 (0.68) ^a	Pass
69	Mass 69 relative abundance	123296	45.6	Pass
70	Less than 2.0% of mass 69	826	0.31 (0.67) ^a	Pass
127	40.0 - 60.0% of mass 198	144490	53.4	Pass
197	Less than 1.0% of mass 198	403	0.15	Pass
198	Base peak, 100% relative abundance	270378	100.0	Pass
199	5.0 - 9.0% of mass 198	18768	6.94	Pass
275	10.0 - 30.0% of mass 198	54333	20.1	Pass
365	1.0 - 100.0% of mass 198	6471	2.39	Pass
441	Present, but less than mass 443	22937	8.48 (85.1) ^b	Pass
442	40.0 - 100.0% of mass 198	139400	51.6	Pass
443	17.0 - 23.0% of mass 442	26948	9.97 (19.3) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EZ5949-IC5949	Z119712.D	03/20/17	21:25	00:20	Initial cal 100
EZ5949-IC5949	Z119713.D	03/20/17	21:53	00:48	Initial cal 80
EZ5949-ICC5949	Z119714.D	03/20/17	22:21	01:16	Initial cal 50
EZ5949-IC5949	Z119715.D	03/20/17	23:26	02:21	Initial cal 25
EZ5949-IC5949	Z119716.D	03/20/17	23:54	02:49	Initial cal 10
EZ5949-IC5949	Z119717.D	03/21/17	00:22	03:17	Initial cal 5
EZ5949-IC5949	Z119718.D	03/21/17	00:50	03:45	Initial cal 2
EZ5949-IC5949	Z119719.D	03/21/17	01:19	04:14	Initial cal 1

6.4.5
6

Instrument Performance Check (DFTPP)

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: EZ5950-DFTPP	Injection Date: 03/21/17
Lab File ID: Z119721.D	Injection Time: 07:12
Instrument ID: GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	61357	43.9	Pass
68	Less than 2.0% of mass 69	663	0.47 (0.99) ^a	Pass
69	Mass 69 relative abundance	67176	48.1	Pass
70	Less than 2.0% of mass 69	341	0.24 (0.51) ^a	Pass
127	40.0 - 60.0% of mass 198	75882	54.3	Pass
197	Less than 1.0% of mass 198	0	0.00	Pass
198	Base peak, 100% relative abundance	139794	100.0	Pass
199	5.0 - 9.0% of mass 198	9404	6.73	Pass
275	10.0 - 30.0% of mass 198	28440	20.3	Pass
365	1.0 - 100.0% of mass 198	3352	2.40	Pass
441	Present, but less than mass 443	11368	8.13 (83.7) ^b	Pass
442	40.0 - 100.0% of mass 198	70130	50.2	Pass
443	17.0 - 23.0% of mass 442	13583	9.72 (19.4) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EZ5950-IC5950	Z119722.D	03/21/17	07:27	00:15	Initial cal 100
EZ5950-IC5950	Z119723A.D	03/21/17	08:18	01:06	Initial cal 80
EZ5950-ICC5950	Z119724.D	03/21/17	08:44	01:32	Initial cal 50
EZ5950-IC5950	Z119725.D	03/21/17	09:09	01:57	Initial cal 25
EZ5950-IC5950	Z119726.D	03/21/17	09:36	02:24	Initial cal 10
EZ5950-IC5950	Z119727.D	03/21/17	10:02	02:50	Initial cal 5
EZ5950-IC5950	Z119728.D	03/21/17	10:28	03:16	Initial cal 2
EZ5950-IC5950	Z119729.D	03/21/17	10:54	03:42	Initial cal 1
EZ5950-ICV5949	Z119731.D	03/21/17	11:47	04:35	Initial cal verification 50
EZ5950-ICV5950	Z119732A.D	03/21/17	12:43	05:31	Initial cal verification 50
EZ5950-ICV5949	Z119732.D	03/21/17	12:43	05:31	Initial cal verification 50
EZ5950-ICV5949	Z119737.D	03/21/17	13:09	05:57	Initial cal verification 50
EZ5950-ICV5949	Z119738.D	03/21/17	13:34	06:22	Initial cal verification 50
EZ5950-ICV5949	Z119733.D	03/21/17	14:00	06:48	Initial cal verification 50
EZ5950-ICV5950	Z119733A.D	03/21/17	14:00	06:48	Initial cal verification 50
EZ5950-ICV5949	Z119734.D	03/21/17	14:27	07:15	Initial cal verification 50
EZ5950-ICV5949	Z119735.D	03/21/17	14:53	07:41	Initial cal verification 50
EZ5950-ICV5950	Z119735A.D	03/21/17	14:53	07:41	Initial cal verification 50
EZ5950-ICV5950	Z119736.D	03/21/17	15:18	08:06	Initial cal verification 50

Instrument Performance Check (DFTPP)

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: EZ5957-DFTPP	Injection Date: 03/24/17
Lab File ID: Z119913.D	Injection Time: 23:32
Instrument ID: GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	87215	40.8	Pass
68	Less than 2.0% of mass 69	1076	0.50 (1.12) ^a	Pass
69	Mass 69 relative abundance	95739	44.8	Pass
70	Less than 2.0% of mass 69	527	0.25 (0.55) ^a	Pass
127	40.0 - 60.0% of mass 198	108928	51.0	Pass
197	Less than 1.0% of mass 198	747	0.35	Pass
198	Base peak, 100% relative abundance	213632	100.0	Pass
199	5.0 - 9.0% of mass 198	14368	6.73	Pass
275	10.0 - 30.0% of mass 198	42138	19.7	Pass
365	1.0 - 100.0% of mass 198	5013	2.35	Pass
441	Present, but less than mass 443	15830	7.41 (84.5) ^b	Pass
442	40.0 - 100.0% of mass 198	97530	45.7	Pass
443	17.0 - 23.0% of mass 442	18731	8.77 (19.2) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EZ5957-CC5949	Z119914.D	03/24/17	23:47	00:15	Continuing cal 25
EZ5957-CC5950	Z119915.D	03/25/17	00:14	00:42	Continuing cal 25
OP1344-MB1	Z119916.D	03/25/17	00:40	01:08	Method Blank
OP1344-BS1	Z119917.D	03/25/17	01:06	01:34	Blank Spike
OP1380-MB1	Z119942.D	03/25/17	01:33	02:01	Method Blank
OP1380-BS1	Z119943.D	03/25/17	01:59	02:27	Blank Spike
OP1380-MS2	Z119944.D	03/25/17	02:25	02:53	Matrix Spike
OP1380-MSD2	Z119945.D	03/25/17	02:52	03:20	Matrix Spike Duplicate
JC38635-1A	Z119946.D	03/25/17	03:18	03:46	(used for QC only; not part of job JC39408)
ZZZZZZ	Z119928.D	03/25/17	08:06	08:34	(unrelated sample)
ZZZZZZ	Z119929.D	03/25/17	08:32	09:00	(unrelated sample)

6.4.7
6

Instrument Performance Check (DFTPP)

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: EZ5958-DFTPP	Injection Date: 03/27/17
Lab File ID: Z119947.D	Injection Time: 07:34
Instrument ID: GCMSZ	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
51	30.0 - 60.0% of mass 198	65698	31.3	Pass
68	Less than 2.0% of mass 69	1201	0.57 (1.48) ^a	Pass
69	Mass 69 relative abundance	81169	38.7	Pass
70	Less than 2.0% of mass 69	518	0.25 (0.64) ^a	Pass
127	40.0 - 60.0% of mass 198	96605	46.1	Pass
197	Less than 1.0% of mass 198	105	0.05	Pass
198	Base peak, 100% relative abundance	209632	100.0	Pass
199	5.0 - 9.0% of mass 198	14012	6.68	Pass
275	10.0 - 30.0% of mass 198	48085	22.9	Pass
365	1.0 - 100.0% of mass 198	6183	2.95	Pass
441	Present, but less than mass 443	22305	10.6 (84.5) ^b	Pass
442	40.0 - 100.0% of mass 198	139088	66.3	Pass
443	17.0 - 23.0% of mass 442	26394	12.6 (19.0) ^c	Pass

- (a) Value is % of mass 69
- (b) Value is % of mass 443
- (c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
EZ5958-CC5949	Z119948.D	03/27/17	07:48	00:14	Continuing cal 50
EZ5958-CC5950	Z119949.D	03/27/17	08:14	00:40	Continuing cal 50
OP1344-MS	Z119950.D	03/27/17	08:54	01:20	Matrix Spike
OP1344-MSD	Z119951.D	03/27/17	09:20	01:46	Matrix Spike Duplicate
ZZZZZZ	Z119953.D	03/27/17	10:12	02:38	(unrelated sample)
ZZZZZZ	Z119952A.D	03/27/17	10:38	03:04	(unrelated sample)
OP1380-MS	Z119954.D	03/27/17	11:05	03:31	Matrix Spike
OP1380-MSD	Z119955.D	03/27/17	11:31	03:57	Matrix Spike Duplicate
JC39303-9	Z119956.D	03/27/17	11:57	04:23	(used for QC only; not part of job JC39408)
JC38988-9	Z119957.D	03/27/17	12:24	04:50	(used for QC only; not part of job JC39408)
OP1373-MB1	Z119975.D	03/27/17	12:50	05:16	Method Blank
ZZZZZZ	Z119977.D	03/27/17	13:43	06:09	(unrelated sample)
ZZZZZZ	Z119962.D	03/27/17	15:14	07:40	(unrelated sample)
ZZZZZZ	Z119964.D	03/27/17	15:40	08:06	(unrelated sample)
JC39408-13	Z119965.D	03/27/17	16:07	08:33	SB-2
JC39408-17	Z119966.D	03/27/17	16:34	09:00	SB-7
ZZZZZZ	Z119967.D	03/27/17	17:01	09:27	(unrelated sample)
JC39408-14	Z119968.D	03/27/17	17:27	09:53	SB-3
JC39408-15	Z119969.D	03/27/17	17:54	10:20	SB-4

Instrument Performance Check (DFTPP)

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample: EZ5958-DFTPP	Injection Date: 03/27/17
Lab File ID: Z119947.D	Injection Time: 07:34
Instrument ID: GCMSZ	

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
JC39408-16	Z119970.D	03/27/17	18:21	10:47	SB-6
JC39408-18	Z119971.D	03/27/17	18:47	11:13	SB-8
ZZZZZZ	Z119972.D	03/27/17	19:14	11:40	(unrelated sample)

6.4.8

6

Semivolatile Surrogate Recovery Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Method: SW846 8270D	Matrix: AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JC39408-13	Z119965.D	46	31	104	99	82	57
JC39408-14	Z119968.D	37	28	97	86	73	57
JC39408-15	Z119969.D	44	34	89	99	81	59
JC39408-16	Z119970.D	41	30	86	92	63	49
JC39408-17	Z119966.D	43	29	111	96	82	60
JC39408-18	Z119971.D	39	30	106	88	74	60
OP1380-BS1	Z119943.D	57	39	112	93	77	90
OP1380-MB1	Z119942.D	44	30	93	77	67	72
OP1380-MS	Z119954.D	59	41	116	99	79	73
OP1380-MSD	Z119955.D	51	35	118	101	80	67

Surrogate Compounds	Recovery Limits
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S1 = 2-Fluorophenol	10-110%
S2 = Phenol-d5	10-110%
S3 = 2,4,6-Tribromophenol	36-151%
S4 = Nitrobenzene-d5	34-128%
S5 = 2-Fluorobiphenyl	38-119%
S6 = Terphenyl-d14	26-129%

6.5.1
6

Semivolatiles Surrogate Recovery Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Method: SW846 8270D	Matrix: SO
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JC39408-1	6P35864.D	71	70	60	57	77	78
JC39408-2	6P35865.D	68	68	84	50	79	86
JC39408-4	6P35867.D	84	80	93	86	86	90
JC39408-5	6P35915A.D	75	67	86	72	79	90
JC39408-5	6P35868.D	80	79	100	77	82	90
JC39408-6	6P35916.D	70	59	70	64	73	81
JC39408-6	6P35869.D	75	74	89	70	77	79
JC39408-7	6P35870.D	99	92	103	93	92	93
JC39408-8	6P35871.D	94	90	94	57	98	95
JC39408-9	6P35872.D	70	76	62	71	79	82
JC39408-11	6P35874.D	91	87	105	87	90	97
JC39408-12	6P35875.D	80	75	48	79	74	75
OP1361-BS1	6P35855.D	92	88	96	86	83	91
OP1361-MB1	6P35854.D	96	87	82	89	84	96
OP1361-MS	6P35856.D	76	76	94	75	81	91
OP1361-MSD	6P35857.D	70	72	87	68	73	84

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	23-115%
S2 = Phenol-d5	27-114%
S3 = 2,4,6-Tribromophenol	19-152%
S4 = Nitrobenzene-d5	26-134%
S5 = 2-Fluorobiphenyl	39-124%
S6 = Terphenyl-d14	36-134%

6.5.2
6

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1371-MB1	XX207033.D	1	03/26/17	HB	03/24/17	OP1371	GXX5975

The QC reported here applies to the following samples: **Method:** SW846 8082A

JC39408-4, JC39408-5, JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-10, JC39408-12

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	16	ug/kg	
11104-28-2	Aroclor 1221	ND	33	16	ug/kg	
11141-16-5	Aroclor 1232	ND	33	13	ug/kg	
53469-21-9	Aroclor 1242	ND	33	12	ug/kg	
12672-29-6	Aroclor 1248	ND	33	21	ug/kg	
11097-69-1	Aroclor 1254	ND	33	17	ug/kg	
11096-82-5	Aroclor 1260	ND	33	14	ug/kg	
11100-14-4	Aroclor 1268	ND	33	12	ug/kg	
37324-23-5	Aroclor 1262	ND	33	23	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
877-09-8	Tetrachloro-m-xylene	108%	24-152%
877-09-8	Tetrachloro-m-xylene	116%	24-152%
2051-24-3	Decachlorobiphenyl	90%	10-166%
2051-24-3	Decachlorobiphenyl	102%	10-166%

7.1.1
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Method Blank Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1377-MB1	EF167925.D	1	03/26/17	HB	03/25/17	OP1377	GEF5920

The QC reported here applies to the following samples:

Method: SW846 8082A

JC39408-3

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	33	16	ug/kg	
11104-28-2	Aroclor 1221	ND	33	16	ug/kg	
11141-16-5	Aroclor 1232	ND	33	13	ug/kg	
53469-21-9	Aroclor 1242	ND	33	12	ug/kg	
12672-29-6	Aroclor 1248	ND	33	21	ug/kg	
11097-69-1	Aroclor 1254	ND	33	17	ug/kg	
11096-82-5	Aroclor 1260	ND	33	14	ug/kg	
11100-14-4	Aroclor 1268	ND	33	12	ug/kg	
37324-23-5	Aroclor 1262	ND	33	23	ug/kg	

CAS No.	Surrogate Recoveries	Limits	
877-09-8	Tetrachloro-m-xylene	88%	24-152%
877-09-8	Tetrachloro-m-xylene	102%	24-152%
2051-24-3	Decachlorobiphenyl	105%	10-166%
2051-24-3	Decachlorobiphenyl	95%	10-166%

Blank Spike Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1371-BS1	XX207034.D	1	03/26/17	HB	03/24/17	OP1371	GXX5975

The QC reported here applies to the following samples: **Method:** SW846 8082A

JC39408-4, JC39408-5, JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-10, JC39408-12

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	133	151	113	61-146
11104-28-2	Aroclor 1221		ND		70-130
11141-16-5	Aroclor 1232		ND		70-130
53469-21-9	Aroclor 1242		ND		70-130
12672-29-6	Aroclor 1248		ND		70-130
11097-69-1	Aroclor 1254		ND		70-130
11096-82-5	Aroclor 1260	133	152	114 ^a	62-148
11100-14-4	Aroclor 1268		ND		50-150 ^b
37324-23-5	Aroclor 1262		ND		50-150 ^b

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	103%	24-152%
877-09-8	Tetrachloro-m-xylene	113%	24-152%
2051-24-3	Decachlorobiphenyl	96%	10-166%
2051-24-3	Decachlorobiphenyl	108%	10-166%

(a) Reported from 2nd signal. %D of check calibration on 1st signal exceed method criteria (20%) so using for confirmation only.

(b) Advisory control limits.

* = Outside of Control Limits.

7.2.1
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Blank Spike Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1377-BS1	EF167926.D	1	03/26/17	HB	03/25/17	OP1377	GEF5920

The QC reported here applies to the following samples:

Method: SW846 8082A

JC39408-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
12674-11-2	Aroclor 1016	133	141	106	61-146
11104-28-2	Aroclor 1221		ND		70-130
11141-16-5	Aroclor 1232		ND		70-130
53469-21-9	Aroclor 1242		ND		70-130
12672-29-6	Aroclor 1248		ND		70-130
11097-69-1	Aroclor 1254		ND		70-130
11096-82-5	Aroclor 1260	133	149	112	62-148
11100-14-4	Aroclor 1268		ND		50-150 ^a
37324-23-5	Aroclor 1262		ND		50-150 ^a

CAS No.	Surrogate Recoveries	BSP	Limits
877-09-8	Tetrachloro-m-xylene	86%	24-152%
877-09-8	Tetrachloro-m-xylene	98%	24-152%
2051-24-3	Decachlorobiphenyl	106%	10-166%
2051-24-3	Decachlorobiphenyl	97%	10-166%

(a) Advisory control limits.

* = Outside of Control Limits.

7.2.2
 7

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1371-MS	XX207044.D	1	03/26/17	HB	03/24/17	OP1371	GXX5975
OP1371-MSD	XX207045.D	1	03/26/17	HB	03/24/17	OP1371	GXX5975
JC39408-4	XX207043.D	1	03/26/17	HB	03/24/17	OP1371	GXX5975

The QC reported here applies to the following samples: **Method:** SW846 8082A

JC39408-4, JC39408-5, JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-10, JC39408-12

CAS No.	Compound	JC39408-4 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND	136	111	82	149	120	81	8	24-178/46
11104-28-2	Aroclor 1221	ND		ND			ND		nc	70-130/50
11141-16-5	Aroclor 1232	ND		ND			ND		nc	70-130/50
53469-21-9	Aroclor 1242	ND		ND			ND		nc	70-130/50
12672-29-6	Aroclor 1248	ND		ND			ND		nc	70-130/50
11097-69-1	Aroclor 1254	ND		ND			ND		nc	70-130/50
11096-82-5	Aroclor 1260	ND	136	178	131	149	190	128	7	15-185/45
11100-14-4	Aroclor 1268	ND		ND			ND		nc	-/50
37324-23-5	Aroclor 1262	ND		ND			ND		nc	-/50

CAS No.	Surrogate Recoveries	MS	MSD	JC39408-4	Limits
877-09-8	Tetrachloro-m-xylene	87%	92%	87%	24-152%
877-09-8	Tetrachloro-m-xylene	101%	95%	89%	24-152%
2051-24-3	Decachlorobiphenyl	93%	103%	78%	10-166%
2051-24-3	Decachlorobiphenyl	113%	131%	102%	10-166%

* = Outside of Control Limits.

7.3.1

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP1377-MS	EF167949.D	1	03/26/17	HB	03/25/17	OP1377	GEF5920
OP1377-MSD	EF167950.D	1	03/26/17	HB	03/25/17	OP1377	GEF5920
JC39242-8	EF167948.D	1	03/26/17	HB	03/25/17	OP1377	GEF5920

The QC reported here applies to the following samples:

Method: SW846 8082A

JC39408-3

CAS No.	Compound	JC39242-8 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	ND	181	285	158	178	282	158	1	24-178/46
11104-28-2	Aroclor 1221	ND		ND			ND		nc	70-130/50
11141-16-5	Aroclor 1232	ND		ND			ND		nc	70-130/50
53469-21-9	Aroclor 1242	ND		ND			ND		nc	70-130/50
12672-29-6	Aroclor 1248	ND		ND			ND		nc	70-130/50
11097-69-1	Aroclor 1254	1730		1570			1460		7	70-130/50
11096-82-5	Aroclor 1260	ND	181	348	193* a	178	347	195* a	0	15-185/45
11100-14-4	Aroclor 1268	ND		ND			ND		nc	-/50
37324-23-5	Aroclor 1262	ND		ND			ND		nc	-/50

CAS No.	Surrogate Recoveries	MS	MSD	JC39242-8	Limits
877-09-8	Tetrachloro-m-xylene	92%	91%	100%	24-152%
877-09-8	Tetrachloro-m-xylene	91%	92%	97%	24-152%
2051-24-3	Decachlorobiphenyl	106%	111%	116%	10-166%
2051-24-3	Decachlorobiphenyl	98%	105%	106%	10-166%

(a) Outside control limits due to presence of other Aroclor pattern.

* = Outside of Control Limits.

7.3.2
7

Semivolatiles Surrogate Recovery Summary

Job Number: JC39408
Account: EBIMAB EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

Method: SW846 8082A	Matrix: SO
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 ^a	S1 ^b	S2 ^a	S2 ^b
JC39408-3	EF167999.D	91	102	202* ^c	158
JC39408-4	XX207043.D	87	89	78	102
JC39408-5	XX207085.D	97	103	113	130
JC39408-6	XX207086.D	99	115	91	108
JC39408-7	XX207087.D	107	121	89	107
JC39408-8	XX207088.D	99	115	81	122
JC39408-9	XX207089.D	115	131	172* ^c	207* ^c
JC39408-10	XX207090.D	104	116	92	119
JC39408-12	XX207100.D	81	98	79	118
OP1371-BS1	XX207034.D	103	113	96	108
OP1371-MB1	XX207033.D	108	116	90	102
OP1371-MS	XX207044.D	87	101	93	113
OP1371-MSD	XX207045.D	92	95	103	131
OP1377-BS1	EF167926.D	86	98	106	97
OP1377-MB1	EF167925.D	88	102	105	95
OP1377-MS	EF167949.D	92	91	106	98
OP1377-MSD	EF167950.D	91	92	111	105

Surrogate Compounds	Recovery Limits
S1 = Tetrachloro-m-xylene	24-152%
S2 = Decachlorobiphenyl	10-166%

- (a) Recovery from GC signal #1
- (b) Recovery from GC signal #2
- (c) Outside control limits due to matrix interference.

7.4.1
7

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC39408
Account: EBIMAB - EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99446
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 03/24/17

Metal	RL	IDL	MDL	MB raw	final
Aluminum	51	1.1	2		
Antimony	2.0	.26	.3	0.071	<2.0
Arsenic	2.0	.22	.22	-0.071	<2.0
Barium	20	.02	.083		
Beryllium	0.20	.01	.022	0.020	<0.20
Bismuth	2.0	.21	.24		
Boron	10	.19	.46		
Cadmium	0.51	.031	.051	-0.010	<0.51
Calcium	510	3.3	1.9		
Chromium	1.0	.031	.12	0.31	<1.0
Cobalt	5.1	.041	.06		
Copper	2.6	.24	.22	0.041	<2.6
Iron	51	.44	.81		
Lead	2.0	.2	.23	-0.10	<2.0
Lithium	2.0	.2	.46		
Magnesium	510	3.5	6		
Manganese	1.5	.01	.037		
Molybdenum	2.0	.041	.083		
Nickel	4.1	.061	.078	0.071	<4.1
Palladium	5.1	.2	.48		
Phosphorus	10	.32	.48		
Potassium	1000	3.6	19		
Selenium	2.0	.52	.47	0.051	<2.0
Silicon	20	.58	3.8		
Silver	0.51	.041	.1	-0.031	<0.51
Sodium	1000	2.2	4		
Strontium	1.0	.01	.024		
Sulfur	5.1	.67	.6		
Thallium	1.0	.19	.41	0.031	<1.0
Tin	5.1	.2	.54		
Titanium	1.0	.041	.13		
Tungsten	5.1	.17	.34		
Vanadium	5.1	.031	.085		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC39408
Account: EBIMAB - EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99446
Matrix Type: SOLID

Methods: SW846 6010C
Units: mg/kg

Prep Date: 03/24/17

Metal	RL	IDL	MDL	MB	
				raw	final

Zinc	5.1	.31	.22	0.97	<5.1
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Zirconium	2.0	.02	.13		
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Associated samples MP99446: JC39408-1, JC39408-2, JC39408-4, JC39408-5, JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.1.1

8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC39408
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99446
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 03/24/17

Metal	JC39407-1 Original MS		SpikeLot MPSPK2	% Rec	QC Limits
Aluminum					
Antimony	0.0	135	207	65.1N(a)	75-125
Arsenic	4.9	193	207	90.8	75-125
Barium					
Beryllium	0.38	195	207	93.9	75-125
Bismuth					
Boron					
Cadmium	0.26	193	207	93.0	75-125
Calcium					
Chromium	24.6	210	207	89.5	75-125
Cobalt					
Copper	31.2	408	207	181.8N(a)	75-125
Iron					
Lead	100	298	207	95.5	75-125
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel	19.1	213	207	93.6	75-125
Palladium					
Phosphorus					
Potassium					
Selenium	0.0	191	207	92.2	75-125
Silicon					
Silver	0.31	24.8	25.9	94.5	75-125
Sodium					
Strontium					
Sulfur					
Thallium	0.23	192	207	92.5	75-125
Tin					
Titanium					
Tungsten					
Vanadium					

8.12
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC39408
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99446
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 03/24/17

Metal	JC39407-1 Original MS	Spike lot	QC Limits
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Zinc	88.4	277	207	91.0	75-125
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Zirconium

Associated samples MP99446: JC39408-1, JC39408-2, JC39408-4, JC39408-5, JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

8.12
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC39408
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99446
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 03/24/17

Metal	JC39407-1 Original MSD		Spike lot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	0.0	133	211	62.9N(a)	1.5	20
Arsenic	4.9	198	211	91.4	2.6	20
Barium						
Beryllium	0.38	198	211	93.5	1.5	20
Bismuth						
Boron						
Cadmium	0.26	196	211	92.6	1.5	20
Calcium						
Chromium	24.6	224	211	94.4	6.5	20
Cobalt						
Copper	31.2	315	211	134.3N(a)	25.7 (b)	20
Iron						
Lead	100	352	211	119.3	16.6	20
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel	19.1	223	211	96.5	4.6	20
Palladium						
Phosphorus						
Potassium						
Selenium	0.0	194	211	91.8	1.6	20
Silicon						
Silver	0.31	25.2	26.4	94.2	1.6	20
Sodium						
Strontium						
Sulfur						
Thallium	0.23	190	211	89.8	1.0	20
Tin						
Titanium						
Tungsten						
Vanadium						

8.12
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC39408
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99446
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 03/24/17

Metal	JC39407-1 Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit
Zinc	88.4	1230	211	540.3N(a) 126.5 (b)20	

Zirconium

Associated samples MP99446: JC39408-1, JC39408-2, JC39408-4, JC39408-5, JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

Results < IDL are shown as zero for calculation purposes

- (*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested
- (a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- (b) High rpd due to possible sample nonhomogeneity.

8.12
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC39408
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99446
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 03/24/17

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum				
Antimony	183	196	93.3	80-120
Arsenic	181	196	92.3	80-120
Barium				
Beryllium	194	196	98.9	80-120
Bismuth				
Boron				
Cadmium	183	196	93.3	80-120
Calcium				
Chromium	188	196	95.9	80-120
Cobalt				
Copper	187	196	95.4	80-120
Iron				
Lead	191	196	97.4	80-120
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel	191	196	97.4	80-120
Palladium				
Phosphorus				
Potassium				
Selenium	181	196	92.3	80-120
Silicon				
Silver	22.9	24.5	93.4	80-120
Sodium				
Strontium				
Sulfur				
Thallium	193	196	98.4	80-120
Tin				
Titanium				
Tungsten				
Vanadium				

8.1.3
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC39408
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99446
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: mg/kg

Prep Date: 03/24/17

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
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Zinc	184	196	93.8	80-120
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Zirconium

Associated samples MP99446: JC39408-1, JC39408-2, JC39408-4, JC39408-5, JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

8.1.3
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: JC39408
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99446
 Matrix Type: SOLID

Methods: SW846 6010C
 Units: ug/l

Prep Date: 03/24/17

Metal	JC39407-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	0.00	0.00	NC	0-10
Arsenic	46.7	44.4	4.9	0-10
Barium				
Beryllium	3.60	3.00	16.7 (a)	0-10
Bismuth				
Boron				
Cadmium	2.50	0.00	100.0(a)	0-10
Chromium	233	251	7.8	0-10
Cobalt				
Copper	296	298	0.6	0-10
Iron				
Lead	947	971	2.5	0-10
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel	181	181	0.4	0-10
Palladium				
Phosphorus				
Potassium				
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	2.90	3.80	31.0 (a)	0-10
Sodium				
Strontium				
Sulfur				
Thallium	2.20	0.00	100.0(a)	0-10
Tin				
Titanium				
Tungsten				
Vanadium				
Zinc	837	917	9.6	0-10

8.1.4
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: JC39408
Account: EBIMAB - EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99446
Matrix Type: SOLID

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/24/17

Metal	JC39407-1 Original SDL 1:5	%DIF	QC Limits
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Zirconium

Associated samples MP99446: JC39408-1, JC39408-2, JC39408-4, JC39408-5, JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

8.1.4

8

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC39408
Account: EBIMAB - EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99464
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/25/17

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	10	21		
Antimony	6.0	1.2	3.3	-0.30	<6.0
Arsenic	3.0	1.3	2.2	1.1	<3.0
Barium	200	.2	.44		
Beryllium	1.0	.05	.25	0.0	<1.0
Bismuth	20	1.8	2.9		
Boron	100	1.2	3.9		
Cadmium	3.0	.3	.4	-0.10	<3.0
Calcium	5000	14	33		
Chromium	10	.6	.81	0.40	<10
Cobalt	50	.3	.69		
Copper	10	.7	2.4	0.10	<10
Iron	100	3.6	12		
Lead	3.0	1.1	2.3	-0.30	<3.0
Lithium	20	1.4	4		
Magnesium	5000	19	85		
Manganese	15	.1	.39		
Molybdenum	20	.5	.88		
Nickel	10	.6	.76	0.20	<10
Palladium	50	2.2	3.7		
Phosphorus	50	2	3.7		
Potassium	10000	23	120		
Selenium	10	3.5	4.1	0.50	<10
Silicon	200	1.6	29		
Silver	10	.9	.88	0.0	<10
Sodium	10000	12	24		
Sulfur	50	3.8	6.9		
Strontium	10	.1	.22		
Thallium	2.0	1.6	1.9	0.20	<2.0
Tin	10	.7	2.3		
Titanium	10	.7	.99		
Tungsten	50	.9	3.2		
Vanadium	50	.5	.66		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC39408
Account: EBIMAB - EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99464
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/25/17

Metal	RL	IDL	MDL	MB raw	final
Zinc	20	1.8	1.3	0.40	<20
Zirconium	10	.3	.94		

Associated samples MP99464: JC39408-13F, JC39408-14F, JC39408-15F, JC39408-16F, JC39408-17F, JC39408-18F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.2.1
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC39408
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99464
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 03/25/17

Metal	JC38824-12 Original MS	SpikeLot MPSPK2	% Rec	QC Limits	
Aluminum	anr				
Antimony	0.0	1710	2000	85.5	75-125
Arsenic	0.0	2010	2000	100.5	75-125
Barium	anr				
Beryllium	22.6	1700	2000	83.9	75-125
Bismuth					
Boron					
Cadmium	8.3	1720	2000	85.6	75-125
Calcium	anr				
Chromium	161	2180	2000	101.0	75-125
Cobalt	anr				
Copper	717	2420	2000	85.2	75-125
Iron	anr				
Lead	0.0	2100	2000	105.0	75-125
Lithium					
Magnesium	anr				
Manganese	anr				
Molybdenum					
Nickel	700	2720	2000	101.0	75-125
Palladium					
Phosphorus					
Potassium	anr				
Selenium	0.00	2020	2000	101.0	75-125
Silicon					
Silver	1.9	217	250	86.0	75-125
Sodium	anr				
Sulfur					
Strontium					
Thallium	0.0	2150	2000	107.5	75-125
Tin					
Titanium					
Tungsten					
Vanadium	anr				

8.2.2
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC39408
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99464
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 03/25/17

Metal	JC38824-12 Original MS	Spikelot MPSPK2	% Rec	QC Limits
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Zinc	1510	3140	2000	81.5	75-125
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Zirconium

Associated samples MP99464: JC39408-13F, JC39408-14F, JC39408-15F, JC39408-16F, JC39408-17F, JC39408-18F

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

8.2.2
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC39408
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99464
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 03/25/17

Metal	JC38824-12 Original	MSD	Spike/lot MPSPK2	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	0.0	1680	2000	84.0	1.8	20
Arsenic	0.0	1980	2000	99.0	1.5	20
Barium	anr					
Beryllium	22.6	1670	2000	82.4	1.8	20
Bismuth						
Boron						
Cadmium	8.3	1680	2000	83.6	2.4	20
Calcium	anr					
Chromium	161	2140	2000	99.0	1.9	20
Cobalt	anr					
Copper	717	2380	2000	83.2	1.7	20
Iron	anr					
Lead	0.0	2050	2000	102.5	2.4	20
Lithium						
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	700	2670	2000	98.5	1.9	20
Palladium						
Phosphorus						
Potassium	anr					
Selenium	0.00	1980	2000	99.0	2.0	20
Silicon						
Silver	1.9	211	250	83.6	2.8	20
Sodium	anr					
Sulfur						
Strontium						
Thallium	0.0	2110	2000	105.5	1.9	20
Tin						
Titanium						
Tungsten						
Vanadium	anr					

8.2.2
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC39408
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99464
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 03/25/17

Metal	JC38824-12 Original MSD	Spikelot MPSPK2	% Rec	MSD RPD	QC Limit	
Zinc	1510	3090	2000	79.0	1.6	20

Zirconium

Associated samples MP99464: JC39408-13F, JC39408-14F, JC39408-15F, JC39408-16F, JC39408-17F, JC39408-18F

Results < IDL are shown as zero for calculation purposes

- (*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested

8.2.2
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC39408
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99464
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 03/25/17

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
Aluminum	anr			
Antimony	1980	2000	99.0	80-120
Arsenic	1960	2000	98.0	80-120
Barium	anr			
Beryllium	2040	2000	102.0	80-120
Bismuth				
Boron				
Cadmium	1970	2000	98.5	80-120
Calcium	anr			
Chromium	2010	2000	100.5	80-120
Cobalt	anr			
Copper	1980	2000	99.0	80-120
Iron	anr			
Lead	2010	2000	100.5	80-120
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	1980	2000	99.0	80-120
Palladium				
Phosphorus				
Potassium	anr			
Selenium	1970	2000	98.5	80-120
Silicon				
Silver	246	250	98.4	80-120
Sodium	anr			
Sulfur				
Strontium				
Thallium	2020	2000	101.0	80-120
Tin				
Titanium				
Tungsten				
Vanadium	anr			

8.2.3
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC39408
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99464
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 03/25/17

Metal	BSP Result	Spikelot MPSPK2	% Rec	QC Limits
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Zinc	2030	2000	101.5	80-120
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Zirconium

Associated samples MP99464: JC39408-13F, JC39408-14F, JC39408-15F, JC39408-16F, JC39408-17F, JC39408-18F

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

8.2.3
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: JC39408
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99464
 Matrix Type: AQUEOUS

Methods: SW846 6010C
 Units: ug/l

Prep Date: 03/25/17

Metal	JC38824-12 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony	0.00	0.00	NC	0-10
Arsenic	0.00	0.00	NC	0-10
Barium	anr			
Beryllium	22.6	26.3	16.4*(a)	0-10
Bismuth				
Boron				
Cadmium	8.30	8.60	3.6	0-10
Calcium	anr			
Chromium	161	142	11.5 (b)	0-10
Cobalt	anr			
Copper	717	828	15.6*(a)	0-10
Iron	anr			
Lead	0.00	0.00	NC	0-10
Lithium				
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	700	704	0.5	0-10
Palladium				
Phosphorus				
Potassium	anr			
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	1.90	0.00	100.0(b)	0-10
Sodium	anr			
Sulfur				
Strontium				
Thallium	0.00	0.00	NC	0-10
Tin				
Titanium				
Tungsten				
Vanadium	anr			

8.2.4
8

SERIAL DILUTION RESULTS SUMMARY

Login Number: JC39408
Account: EBIMAB - EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99464
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 03/25/17

Metal	JC38824-12	QC
	Original SDL 1:5	%DIF Limits

Zinc 1510 1850 22.5*(a) 0-10

Zirconium

Associated samples MP99464: JC39408-13F, JC39408-14F, JC39408-15F, JC39408-16F, JC39408-17F, JC39408-18F

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Serial dilution indicates possible matrix interference.

(b) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

8.2.4

8

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC39408
Account: EBIMAB - EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99495
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 03/27/17

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.033	.0018	.0053	0.0091	<0.033

Associated samples MP99495: JC39408-1, JC39408-2, JC39408-4, JC39408-5, JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.3.1

8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC39408
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99495
 Matrix Type: SOLID

Methods: SW846 7471B
 Units: mg/kg

Prep Date: 03/27/17

Metal	JC39432-1 Original MS	Spike HGPWS1	% Rec	QC Limits
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Mercury 0.0073 0.28 0.331 82.3 80-120

Associated samples MP99495: JC39408-1, JC39408-2, JC39408-4, JC39408-5, JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

8.3.2

8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC39408
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99495
 Matrix Type: SOLID

Methods: SW846 7471B
 Units: mg/kg

Prep Date: 03/27/17 03/27/17

Metal	JC39432-1 Original MSD	SpikeLot HGPWS1 % Rec		MSD RPD	QC Limit	JC39432-1 Original DUP	RPD	QC Limits
Mercury	0.0073 0.29	0.332	85.1	3.5	20	0.0073 0.0052	33.6 (a)	0-20

Associated samples MP99495: JC39408-1, JC39408-2, JC39408-4, JC39408-5, JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) RPD acceptable due to low duplicate and sample concentrations.

8.3.2
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC39408
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99495
 Matrix Type: SOLID

Methods: SW846 7471B
 Units: mg/kg

Prep Date: 03/27/17 03/27/17

Metal	BSP Result	Spikelot HGPWS1	% Rec	QC Limits	LCS Result	Spikelot HGLCS54085%	QC Limits
Mercury	0.31	0.333	93.1	80-120	8.9	8.37 106.3	73-128

Associated samples MP99495: JC39408-1, JC39408-2, JC39408-4, JC39408-5, JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

8.3.3
 8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC39408
Account: EBIMAB - EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99495
Matrix Type: SOLID

Methods: SW846 7471B
Units: mg/kg

Prep Date: 03/27/17

Metal	LCS Result	Spikelot HGLCS54085% Rec	QC Limits
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Mercury 9.1 8.37 108.7 73-128

Associated samples MP99495: JC39408-1, JC39408-2, JC39408-4, JC39408-5, JC39408-6, JC39408-7, JC39408-8, JC39408-9, JC39408-11, JC39408-12

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.3.3

8

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JC39408
Account: EBIMAB - EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99499
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 03/27/17

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.058	.047	0.022	<0.20

Associated samples MP99499: JC39408-13F, JC39408-14F, JC39408-15F, JC39408-16F, JC39408-17F, JC39408-18F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC39408
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99499
 Matrix Type: AQUEOUS

Methods: SW846 7470A
 Units: ug/l

Prep Date: 03/27/17

Metal	JC39408-15F Original MS	Spike lot	HGPW3	% Rec	QC Limits
Mercury	0.0	2.2	2	110.0	75-125

Associated samples MP99499: JC39408-13F, JC39408-14F, JC39408-15F, JC39408-16F, JC39408-17F, JC39408-18F

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

8.4.2
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JC39408
 Account: EBIMAB - EBI Consulting
 Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99499
 Matrix Type: AQUEOUS

Methods: SW846 7470A
 Units: ug/l

Prep Date: 03/27/17

Metal	JC39408-15F Original MSD	SpikeLot HGPW3	% Rec	MSD RPD	QC Limit
Mercury	0.0	2.2	2	110.0	0.0 20

Associated samples MP99499: JC39408-13F, JC39408-14F, JC39408-15F, JC39408-16F, JC39408-17F, JC39408-18F

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

8.4.2
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC39408
Account: EBIMAB - EBI Consulting
Project: 1217000088, 159-161 Alexander Street, Yonkers, NY

QC Batch ID: MP99499
Matrix Type: AQUEOUS

Methods: SW846 7470A
Units: ug/l

Prep Date: 03/27/17

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits
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Mercury 2.3 2 115.0 80-120

Associated samples MP99499: JC39408-13F, JC39408-14F, JC39408-15F, JC39408-16F, JC39408-17F, JC39408-18F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.4.3

8

APPENDIX D
PROFESSIONAL QUALIFICATIONS

DRAFT

SUMMARY OF EXPERIENCE

Mr. Shaw has over nine years of experience performing a broad range of environmental consulting which includes: Phase I and Phase II investigations, site remediation, UST and AST work and construction management. His field experience includes: all aspects of soil sampling, soil gas sampling and groundwater sampling and oversight of monitoring well installation, collected air samples for mold, lead, asbestos and for IAQ investigations, oversight of contractors during UST and AST closures, Lead based paint and asbestos inspections of multi-family residences, schools and various other facilities. Additionally, Mr. Shaw has prepared specifications for remedial system design including pump and treat, chemical oxidation injections, direct soil removal and subslab depressurization systems, subsurface investigation work plans, health and safety plans, material handling plans required by government agencies, and spill prevention control and countermeasure plans for clients required by USEPA. He has also provided clients with assistance for NYSDEC spill numbers, including communication with the NYSDEC, vendor selection and closure report generation.

RELEVANT PROJECT EXPERIENCE

Mr. Shaw has completed over 25 Phase I investigations. Additionally, Mr. Shaw has performed over 60 Phase II Site investigations which included selection of vendors, implementation of fieldwork and report generation.

EDUCATION

Purchase College, Purchase, New York

Bachelor of Science, Environmental Science: Marine Ecology, Spring 2005

PROFESSIONAL REGISTRATIONS

- u New York State Asbestos Inspector
- u New Jersey Department of Community Affairs Asbestos Safety Technician
- u New Jersey Department of Health Certified Risk Assessor
- u New York State EPA Certified Risk Assessor

SUMMARY OF EXPERIENCE

Mr. Kilcoyne has more than 20 years of experience in oil and hazardous materials site investigation and remediation and has directed numerous projects involving investigations and cleanup activities on industrial and commercial sites. He has been involved in a wide variety of site assessment and remediation projects since 1985 including numerous preacquisition site assessments for lenders (in accordance with ASTM Standard Designation E1527-00 and E1527-05) and due diligence reviews of multiple properties. He has extensive experience conducting all phases of site assessment and remediation under the Massachusetts Contingency Plan and Connecticut Remediation Regulations. Remediation projects have involved numerous soil and UST removals, monitored natural attenuation, enhanced bioremediation, emergency response actions for spills, and operation and maintenance of groundwater treatment systems and vapor extraction systems.

At EBI Consulting, Mr. Kilcoyne is a Senior Scientist in the Site Investigation and Remediation Group and specializes in the identification of effective and protective solutions to his client's environmental investigation and remediation needs. In doing this he recommends action-alternatives in consideration of the governing regulations and the client's specific needs, including but not limited to their current and foreseeable use of the property and the potential onsite and offsite environmental risks and liabilities.

RELEVANT PROJECT EXPERIENCE

PRIVATE CLIENT, PCE RELEASE AND MCP RESPONSE ACTIONS, DORCHESTER, MASSACHUSETTS. Project manager for environmental response actions conducted in accordance with the MCP for a former metal fabricating facility in Dorchester, Massachusetts. A release of tetrachloroethene (PCE) was detected in the area of a former vapor degreaser formerly operated at the facility. An Immediate Response Action (IRA) was conducted to evaluate a potential of Substantial Release Migration (SRM) relative to migration of vapors to adjacent residential properties. Indoor air testing confirmed that no SRM or imminent hazard existed. A Release Abatement Measure (RAM) was conducted consisting of the excavation and of-site disposal of PCE contaminated soils in the source area, and application of remedial additives to the excavation. Sheet pile installation was required to conduct the excavation to the required depth in close proximity to adjacent off-site buildings and roads. The RAM was successful in reducing contaminant levels in soil and groundwater to less than applicable standards, and a Class A-2 Response Action Outcome (RAO) was achieved within one year of reporting. [2007-2008]

NAEA ENERGY MASSACHUSETTS, HYDRAULIC OIL SPILL RESPONSE, CHICOPEE, MASSACHUSETTS. Project manager for environmental response actions conducted in accordance with the MCP for a release of hydraulic oil from a hydroelectric facility gatehouse on the Chicopee River. Response actions included the deployment of booms and absorbent materials and cleaning of gatehouse structures. A Class A-1 Response Action Outcome was achieved. [2007]

DRY CLEANER SITE, COLORADO SPRINGS, COLORADO. Project manager for environmental investigations and regulatory response actions at a dry cleaner site at a commercial shopping center in Colorado. Due diligence site assessment activities identified the presence of PCE in groundwater at concentrations greater than Colorado Department of Public Health and Environment (CDPHE) standards. A groundwater investigation and risk assessment was conducted, including evaluation of potential indoor air migration. A Corrective Action Plan (CAP) was submitted to and approved by CDPHE proposing the implementation of a quarterly monitoring program to further evaluate contaminant trends, and application of an environmental covenant to the property to restrict future use of groundwater as a drinking water resource. [2007 to present]

COMMERCIAL PROPERTY, PETROLEUM RELEASE, INDIANAPOLIS, INDIANA. Environmental response action project manager for a petroleum release at a commercial property in Indiana. A site assessment identified the presence of petroleum hydrocarbons in soil and groundwater in the vicinity of a former hydraulic lift at concentrations greater than Indiana Department of Environmental Management (IDEM) standards. Conditions were reported to IDEM, and a Site Investigation was conducted pursuant to Indiana Code 13-24-1-6. Based on the low levels of contamination observed, IDEM approved a quarterly monitoring program to document the natural attenuation of the contaminants. [2007 to present]

KAYEM FOODS, UST REMOVAL AND MCP RESPONSE ACTIONS, CHELSEA, MASSACHUSETTS. Project manager for UST removal project at former food processing facility. During the excavation and removal of an abandoned gasoline UST, the presence of a 72-hour reporting condition was identified based on the presence of elevated headspace screening results from soil samples collected beneath the UST. The UST was located within the City-owned sidewalk and adjacent to the existing building and numerous utilities. Notification was made to the Massachusetts Department of Environmental Protection (MADEP), and approval was obtained to perform an Immediate Response Action that included evaluation of Imminent Hazards, Substantial Release Migration and Critical Exposure Pathways. Investigations confirmed that no significant migration or infiltration of vapors to adjacent residential properties was occurring. [2008]

DOMINION RESOURCES, FORMER NORTHEAST PETROLEUM SITE, SALEM, MASSACHUSETTS. Project manager for environmental response actions conducted in accordance with the MCP for the former Northeast Petroleum Site in Salem, Massachusetts. The property was formerly operated as a home heating oil storage and distribution facility. In February 2001, light non-aqueous phase liquid (LNAPL) determined to be No. 2 fuel oil was measured in a monitoring well at a thickness of greater than ½ inch, triggering a 72-hour reporting condition under the MCP. An Immediate Response Action (IRA) was undertaken to delineate the extent of LNAPL at the site. Investigations determined that the fuel oil release was most likely associated with fuel delivery truck loading operations from the former fuel oil distributor. Response actions completed under the MCP have included the following: Phase I Initial Site Investigation and Tier Classification; Phase II Comprehensive Site Assessment, which documented the results of field activities to delineate the extent of the release, and a risk assessment to characterize potential site risks; Phase III Remedial Action Plan, which

recommended the installation of an oil recovery system; and a Phase IV Remedy Implementation Plan, which detailed the proposed design of a multi-phase extraction system to remediate the LNAPL and contaminated groundwater at the site. As part of site investigation activities, extensive analysis was performed to evaluate the actual thickness of LNAPL in the environment. This evaluation was performed through the use of bail down tests and installation and gauging of 4-inch monitoring wells. Pilot testing for multi-phase extraction and soil vapor extraction was performed during the summer 2006. Also provided litigation support services to assist client in pursuit of cost recovery from former operator. [2001 – 2006]

EASTERN TOOL AND STAMPING CO., MCP INVESTIGATIONS, SAUGUS, MASSACHUSETTS. Project manager for response actions conducted in accordance with the MCP at this manufacturing facility that was the site of a trichloroethylene (TCE) release adjacent to wetlands within a state-designated Area of Critical Environmental Concern. Managed the completion of a Phase I investigation, Numeric Ranking System scoring and Tier Classification which identified the site as a Tier II site; a Phase II Comprehensive Site Assessment (including installation of monitoring wells, sampling of surface water, sediment, groundwater and indoor air, hydrogeologic characterization and human health and ecological risk assessments); and a Phase III remedial action plan. Supervised investigations that identified the presence of TCE at greater than 400 ppm. Directed a Phase III soil vapor extraction/air sparging pilot study. A Class C response action outcome was achieved that involved the implementation of an Activity and Use Limitation and an intrinsic bioremediation remedy. The required five-year RAO-C review was performed in 2004, with the resulting recommendation that an enhanced bioremediation remedy consisting of the application of a slow-release carbohydrate solution be employed. The remedial additives were injected in November 2004 and performance monitoring is ongoing under Phase V of the MCP. [1995-present]

DYNO NOBEL, CONNECTICUT TRANSFER ACT PHASE II ASSESSMENT, SIMSBURY, CONNECTICUT. Served as Senior Reviewer and Project QA/QC Officer for Transfer Act Phase II Assessment for an explosives manufacturing facility. Field investigation was performed for 123 Areas of Concern on the facility campus that were identified in accordance with CTDEP regulations. Principal contaminants of concern consisted of energetic compounds (PETN, RDX, and HMX), lead, and tungsten. [2006]

EMERSON HOSPITAL, NO. 6 OIL INVESTIGATION, CONCORD, MASSACHUSETTS. Served as Project Manager for response actions under the MCP for a release of No. 6 oil at an operating hospital. The release was identified in November 1999 when petroleum was encountered during the advancement of a well intended to provide backup water supply to the hospital's boiler room. Installation of monitoring wells subsequently confirmed the presence of light non-aqueous phase liquid (LNAPL), which triggered a 72-hour reporting condition under the MCP. An Immediate Response Action (IRA) evaluated the extent of the LNAPL and potential impacts to adjacent wetlands and Sudbury River. After completion of the IRA, response actions were continued under the MCP. An extensive soil boring and monitoring well installation program was undertaken to evaluate the extent of impacts at the site. Based on the results of the Phase II Comprehensive Site Assessment, it was determined that No. 6 fuel oil had been released from a former 10,000-gallon UST, and that No. 6 oil was present as LNAPL at thicknesses of up to 3 feet. The No. 6 oil contamination is located in close proximity to the Emergency Room

entrance of the hospital, and at depths of up to 30 feet below the ground surface, which severely limited potential remedial approaches. The Phase III remedial alternative evaluation recommended implementation of a long-term monitoring program, because active remediation was determined to be cost prohibitive and overly disruptive to hospital operations. A Class-C RAO with an Activity and Use limitation was completed in 2003. Long term monitoring is ongoing to confirm that no significant migration of the No. 6 oil migration towards downgradient wetlands and sensitive receptors occurs. [1999 – 2006]

CHEROKEE INVESTMENT PARTNERS, FORMER BORDEN CHEMICAL SITE, LEOMINSTER, MASSACHUSETTS. Project manager for environmental evaluation activities at a former chemical manufacturing plant classified as Tier 1B under MCP. Directed MCP Phase II and III evaluations and a predemolition inspection of the property. Directed removal of several thousand pounds of waste, including phthalates, TCE, n-butyl acrylate, vinyl acetate, and waste oils. Managed a Phase II assessment that identified the presence of four distinct release areas, consisting of TCE and vinyl chloride above Massachusetts ucls in groundwater in till and bedrock, phthalate and No. 6 oil contamination of soil, and metals and pahs in sediments of a former wastewater lagoon. Remediation of No. 6 oil and phthalate areas were completed as Release Abatement Measures under the MCP involving the excavation and off-site disposal of contaminated soil. A risk-based Class B RAO was achieved for the TCE area in 2004 through the use of a Method 2 risk assessment. Directed the closure of the former wastewater lagoon, which involved permitting (NOI, Section 404 and 401 permits, MEPA notification) and design for lagoon closure and stream restoration, which consisted of capping of affected sediments, construction of an armored stream channel, and removal of an existing concrete dam. [1996-2006]

GRINNELL CORPORATION, 1467 ELMWOOD AVENUE, CRANSTON, RHODE ISLAND: Served as Project Manager for environmental response actions conducted in accordance with the Rhode Island Remediation Regulations for the Grinnell Corporation site in Cranston, Rhode Island. In March 1998, petroleum-contaminated soils were encountered during the excavation for utility installation associated with a new building addition. In addition, characterization of soils excavated for building foundations indicated the presence of elevated concentrations of arsenic in soil. A Hazardous Material Release Notification Form (HMRNF) reporting the petroleum and arsenic releases was subsequently submitted to RIDEM. Following reporting, Conducted a Short Term Response (STR) in order to evaluate the potential sources of the releases and to delineate the nature and extent of the releases. The source of the petroleum contamination could not be determined within the 45-day period allotted for the STR. A Site Investigation Report (SIR) Work Plan was developed based on the findings of the STR. A SIR was completed and submitted to RIDEM in January 2000 documenting the results of site investigation activities, risk characterization, and remedial alternatives analysis. As part of site activities, arsenic-impacted soils that had been displaced by construction activities (totaling 5,054 tons) were transported off-site under a Material Shipping Record and disposed of as daily landfill cover. [1998 – 2000]

AFC CABLE, FUEL OIL REMEDIATION, NEW BEDFORD, MASSACHUSETTS. Based on the results of ASTM Phase I and Phase II assessments, the presence of petroleum hydrocarbons in soil and groundwater above applicable MCP reportable concentrations were identified. The

No. 2 fuel oil related contamination was apparently derived from a former UST that had previously been removed from the site in 1997. Performed the release notification on behalf of the property owner, and prepared a Release Abatement Measure (RAM) Plan to excavate and remove impacted soils. Approximately 50 cubic yards of soil were removed and post-excavation soil sampling and subsequent groundwater monitoring confirmed attainment of clean-up goals. A RAM Completion Statement and Response Action Outcome were completed in January 2006. [08/2005 – 01-2006]

ARK-LES CORPORATION, MCP INVESTIGATIONS, STOUGHTON, MASSACHUSETTS. Project manager for response actions at this Tier 1, public involvement plan (PIP) site involving a chlorinated solvent release that has impacted downgradient residential properties. Have conducted extensive site characterization, including residential indoor air evaluation, imminent hazard evaluation, and Method 3 risk assessment. Immediate response actions were conducted to address critical exposure pathway consisting of potential residential indoor air impacts. Prepared PIP documents, participated in public meetings and outreach to citizen's group. A Phase II comprehensive site assessment and response action outcome statement was completed in 2003 after indoor air evaluations determined that a condition of no significant risk was present at all downgradient homes. Also provided litigation support to client's counsel. [1998 – 2003]

BOSTON HOUSING AUTHORITY, UST REMOVAL CONSTRUCTION OVERSIGHT, HEATH-BROMLEY DEVELOPMENTS, BOSTON, MASSACHUSETTS. Provided construction management for UST removal project at public housing development. Services included pre-removal characterization of soil and groundwater conditions, preparation of bid spec documents, procurement and evaluation of bids, and oversight of selected contractor for the UST removal and site restoration. [2003]

CONED ENERGY MASSACHUSETTS, KEROSENE RELEASE, WEST SPRINGFIELD, MASSACHUSETTS. Conducted MCP response actions relative to a kerosene spill at active power plant. Provided oversight of soil removal as part of an immediate response action (IRA), soil and groundwater characterization. A response action outcome (RAO) was achieved through the use of a Method 3 risk assessment and Activity and Use Limitation. [2003]

JONES SANITATION SUPERFUND SITE, REMEDIAL INVESTIGATION, HYDE PARK, NEW YORK. Project manager for a CERCLA remedial investigation at a former septage disposal facility, performed for an industrial client under an administrative consent order with USEPA Region II. Developed and wrote a work plan and sampling and analysis plan. Managed implementation and oversight of field activities, which included a seismic survey, soil gas survey, wetlands delineation, soil boring program (104 borings), hydrogeologic investigation (installation, testing of 35 overburden and bedrock wells), cultural resource assessment, and ecological and human health risk assessment. Prepared monthly progress reports to EPA, wrote Final RI Report, and delivered presentation on findings to EPA. [1991-1994]

24 CHEMICAL WAREHOUSING FACILITIES, ASTM PHASE I SITE ASSESSMENTS, VARIOUS STATES. Project manager for due diligence project that involved the assessment of 24 chemical distribution and warehousing facilities in 15 states. Prepared reports to conform to the ASTM standard. Entire project was completed within three weeks through the mobilization of personnel from 11 offices. [1999]

CRANSTON PRINT WORKS, EMERGENCY SPILL RESPONSE AND MCP CLOSURE, WEBSTER, MASSACHUSETTS. Project manager for remedial response actions under the Massachusetts Contingency Plan at a manufacturing facility that experienced a rupture in a 6-inch-diameter underground oil pipeline. Directed an immediate response action to contain and remove heated No. 6 oil spilled on the ground; to locate, isolate, and repair the leak; and to excavate and remove oil contaminated soils in the area of the leak. The IRA was completed after it was determined through test pits that the contamination extended a considerable distance along the pipeline. Full delineation of the extent of contamination, removal of the contaminated soil and removal of the pipeline was subsequently completed as a Release Abatement Measure. A Class A-3 response action outcome was achieved within a year of the release. An Activity and Use Limitation was applied to an area of the release that was located beneath a concrete pad and stanchion and was therefore inaccessible for soil removal. Prepared and implemented the RAM and IRA, and prepared the necessary MCP submittals including release notification, an IRA Plan, IRA completion statement, RAM plan, bills of lading, an AUL, and an RAO. [1996]

IMMEDIATE RESPONSE ACTION AND UST CLOSURE, PIER 37 MARINA, FALMOUTH, MASSACHUSETTS. Project manager gasoline release site on Cape Cod. Performed 72-hour release notification because of a threat of release after an underground storage tank failed a tightness test. Subsequently performed an IRA consisting of soil and groundwater assessment, tank removal and excavation and recycling of contaminated soil. A Class A-2 response action outcome was achieved within one year of notification. [1995]

CRANSTON PRINT WORKS FACILITY, PHASE II INVESTIGATION, WEBSTER, MASSACHUSETTS Project manager for the MCP site investigations for an industrial client with a site contaminated by No. 6 fuel oil and mineral spirits. Completed Phase II comprehensive site assessment that included passive soil gas survey, extensive soil boring program, groundwater and sediment sampling. Several distinct release areas were identified, consisting predominantly of various petroleum distillates and polynuclear aromatic hydrocarbons (PAHS) in soil and sediment. PAHS in soil were determined to be exempt from the MCP based on their derivation from coal ash observed on site, and the ecological risk assessment determined the PAHS in sediment to represent local conditions. The risk assessment found that additional response actions would be required for a No. 6 fuel oil release in the vicinity of abandoned USTS, but that risk characterization and application of Activity and Use Limitations without any remediation would be sufficient to address the majority of the releases identified. [1995 -1997]

BRAINTREE ELECTRIC LIGHT DEPARTMENT, MULTIPLE SPILL SITES, BRAINTREE, MASSACHUSETTS. Conducted response actions at seven spill sites for local utility. Conducted immediate response actions for each release, which typically consisted of releases of dielectric fluid and mineral oil from transformers at commercial and residential locations. Conducted

product recovery, soil excavation, site characterization, and risk assessment to achieve closure under the MCP. [1998 – 2005]

MASSHIGHWAY DEPARTMENT, MULTIPLE SITES, MASSACHUSETTS. Project manager for environmental projects at multiple sites operated by MassHighway. Managed Phase I and II investigations, implementation of Activity and Use Limitations, and completion of response action outcomes for sites that typically have involved petroleum contamination of soil and groundwater. [2000 – 2004]

EDUCATION

B.A. geology Williams College

PROFESSIONAL AFFILIATIONS

Licensed Site Professional Association, Member

SUMMARY OF EXPERIENCE

Business Development and Account Manager for a plethora of institutions, lenders and owners including insurance, private equity, portfolio/CMBS lenders, reits and high net worth families/individuals.

RELEVANT PROJECT EXPERIENCE

IVI International, VP Due Diligence – Construction Consulting, Environmental and Building Inspections, and Energy Benchmarking

Tradition Energy, VP – Energy Management Solutions

Joseph Hilton & Associates, Accountant – Commercial Real Estate Leasing, Construction and Property Management

EDUCATION

Farleigh Dickinson University, Florham Park, NJ – MBA, International Business

University of Massachusetts, Amherst, MA – BBA, Accounting

PROFESSIONAL AFFILIATIONS

Urban Land Institute, Westchester/Fairfield Chapter – Executive Board Member

Mortgage Bankers Association of NY, Executive Board Member – Chair of Programming Committee

PROFESSIONAL REGISTRATIONS

Association of Energy Engineers – Carbon Reduction Manager

PUBLICATIONS

NY REAL ESTATE JOURNAL, MARCH 23, 2010 – “COMMERCIAL R.E. PROFESSIONALS CAN REAP NUMEROUS REWARDS BY COMMISSIONING A CARBON FOOTPRINT STUDY”

SCOTSMAN GUIDE, MARCH 2010 – “THE DIFFERENCE ONE FOOTPRINT CAN MAKE”